

Submittal Records

Architect: Snyder Architects Inc.	Date: 29 - 07 - 2024
Attention: Amit Patel, Anil Gokarn, Avinash Garde, Mike Wilding, Jamie Leach, Roberto Vasquez	Project: Gymnasium Addition at Glenview PS
Subcontractor: B-SAFE ELECTRIC	Shop Drawings Lighting, Lighting Controls

Copies	Title /Description	# Pages		
1	Lighting, Lighting Controls and Poles	158		
1	Exit and Emergency Lighting	Included in above		

Method of Delivery: Electronic

The Architect's review is for the sole purpose of ascertaining conformance with the general design concept and for the general arrangement. This review shall not mean approval of the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor and such review shall not relieve the Contractor of their responsibility for errors or omissions in the shop drawings or of their responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, quantities or to techniques of construction and installation and for coordination of related work.

sn/der architects

Date	Aug 21 2024
By	AP
	2314
	ptions taken
	with notations
	& Resubmit
Not revi	ewed



5080 Timberlea Blvd. Unit #1 Mississauga, Ontario L4W 4M2

905-624-6012

Phone: 905-872-7233

Fax:

Commercial Industrial Plant Maintenance

Date: Jul 24, 2024

Shop Drawing Transmittal

To: Golden Gate Contracting, 1038 Cooke Blvd., Unit#1, Burlington

Project Name: HDSB-Gymnasium Addition at Glenview P S, Burlington

Project No: #12402

Sub	Submittal drawings issued for:							
X	For Approval							
	For Record / Info Only							
Copies Supplier Description								
1 Cooper Lighting		Cooper Lighting	Lighting, Lighting Controls and Poles					
	1	Aimlite	Exit and Emergency Lighting					
	Notes:	*MATERIAL ON HOLD PEND	ING APPROVAL AND RELEASE *					

PER: Sumish Azheekkalkadavil

Page 1/2

Date: Jul 23, 2024 medgarLCi

Transmittal

Medgar Lighting & Controls Inc 1290 Sandhill Drive, Unit 5 Ancaster ON L9G 0H6 Phone: (905) 312-1213 From: Jacob Harris

Project HDSB - Glenview Public School Gym

Addition

Quote# ML&C24-119319 **Location** Burlington ON

Contact:

ATTACHED WE ARE SENDING ☑ Drawings ☐ Prints ☐ Plans	S YOU 1 COPY OF THE FOLLOW Specifications Information Submittals	/ING ITEM: Other:
THESE ARE TRANSMITTED For Prior Approval ☐ Approval as Submitted ☐ Approval as Noted	OR: Resubmittal for Approval Corrections Your Use Review and Comment	Record Bids due on: Other:
Remarks: SENT		

T	MEG	Dord	Fat Load
Type	MFG	Part	Est. Lead
P -	McGraw-Edison	GALN-SA3C-730-1-5MQ-XX-BPC	8-10 weeks
Р	VALMONT INDUSTRIES	4SS17-PC-1DR-XX-MBC	8-10 weeks
W	McGraw-Edison	IST-SA1D-730-1-T4FT-XX-BPC	8-10 weeks
W1	McGraw-Edison	IST-SA1E-730-1-T4FT-XX-BPC	8-10 weeks
V	Halo	HC625D010//HM60525830//61MDH	4-6 weeks
А	Metalux	4SNX-SL3-LW-UNV-CC83-CD1-U//AYC- CHAIN/SET-U	4-6 weeks
В	Metalux 1X4 CGT 35K, 40K,50K	14CGTS-NUV SEL CCT AND LUMENS	2-4 weeks
B1	Metalux 1X4 CGT 35K, 40K,50K	14CGTS-NUV//DF-14W-U SEL CCT AND LUMENS	2-4 weeks
С	Metalux	24CGTS-NUV	2-4 weeks
F	Halo	HC410D010//HM40525840//41MDH	4-6 weeks
G	Metalux	OHB-18SE-MFL-UNV-L840-CD-U//OHB- WG162-U	6-8 weeks
	Item Note: SUSPEN	ISION BY OTHERS.	
SR	Aimlite Emergency Single Head Small Ther	~RMSM1-06-12V3WLJ-WHT moplastic Remote, 06-12V LED 3W, White	2-4 weeks
DR	Aimlite Emergency Double Head Small The	~RMSM2-06-12V3WLJ-WHT rmoplastic Remote, 06-12V LED 3W, White	2-4 weeks
DR-WG	Aimlite Emergency Wireguard, WIRE GUAF	~WGD630-V2 RD 15.25Lx12.25Wx9.0D	2-4 weeks
CU	Aimlite Emergency	~CARPW12361M-2SM3WLJWHT/ATD WIRE GUARD	2-4 weeks
		ktruded Alum, 12V 36W, 1 Face, Universal Mount, 2 White Unit (Standard), Auto-Test Self-Diagnostics	
BU	Aimlite Emergency Steel Emergency Low W LED, White Unit, Auto-T	~.EBST12072-2SM3WLJWHT/ATD Vattage Battery Unit, 12V 72W, 2 PAR18 3 WATTS Fest Self-Diagnostics	2-4 weeks
EX	Aimlite Emergency	~RPALWUMWHT-BAT/ATD //WIRE GUARD	2-4 weeks
		nning Man, Universal faces, Universal, White,	

INTERNAL BATTERY 90 MIN, Auto-test & Self-diagnostics

Page 2/2

Date: Jul 23, 2024



Transmittal

Medgar Lighting & Controls Inc 1290 Sandhill Drive, Unit 5 Ancaster ON L9G 0H6 Phone: (905) 312-1213 From: Jacob Harris

		FIUIII. Jacob Hailis	
Type	MFG	Part	Est. Lead
RCD	Greengate	RC3D-PL	4-6 weeks
OS1	Greengate	OAWC-DT-120W	4-6 weeks
OCC	Greengate	OCC-RJ45	4-6 weeks
PP	Greengate	SP20-MV	4-6 weeks
KP1	Greengate Item Note: ZONE 1	RC-1TLB-101-W	4-6 weeks
KP2	Greengate Item Note: ZONE 2	RC-1TLB-102-W	4-6 weeks
KP3	Greengate Item Note: ZONE 3	RC-1TLB-103-W	4-6 weeks
WGD	Aimlite Emergency Wireguard, WIRE GUAR	~WGD550 RD 8.5Lx6.0Wx7.0D	2-4 weeks
OS2	Greengate	OAC-DT-2000	4-6 weeks
\$WOS	Greengate	ONW-D-1001-MV-W	4-6 weeks
LTG. CTRL.	MLCi Technical Services	DRAWING PACKAGE	

Notes: **SENT**

HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

GALN-SA3C-730-1-5MQ-XX-BPC

Notes:

Type:

P

ML&C24-119319

Project	Ca	Catalog #	Туре	
Prepared by	No	lotes	Date	



McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features







Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 11

Product Certifications

















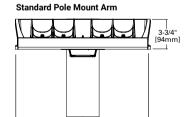
Ouick Facts

- Lumen packages range from 3,300 73,500 (33W 552W)
- 17 optical distributions
- Efficacy up to 159 lumens per watt

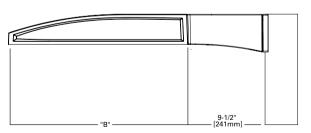
Connected Systems

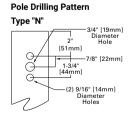
- WaveLinx Lite
- WaveLinx

Dimensional Details



"A"





Number of	Width "A"	Housing Length "B"	Weight with Standard or	EPA with Standard
Light Squares	Widdi A	riousing Length B	QM Arm	or QM Arm
1-4	16"	22"	29 lb	Consulting
5-6	22"	22"	39 lb	Engineers
7-9	22"	28-1/8"	48 lb	MECHANICAL ELECTRICAL AQUATIC

1/11

Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
 IDA Certified (3000K CCT and warmer only, fixed mounting options)

COOPER

Note: Finish by Architect.

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.



X Reviewed As Noted Revise and Resubmit



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: GALN-SA3C-730-1-5MQ-XX-BPC

Notes:

Type:

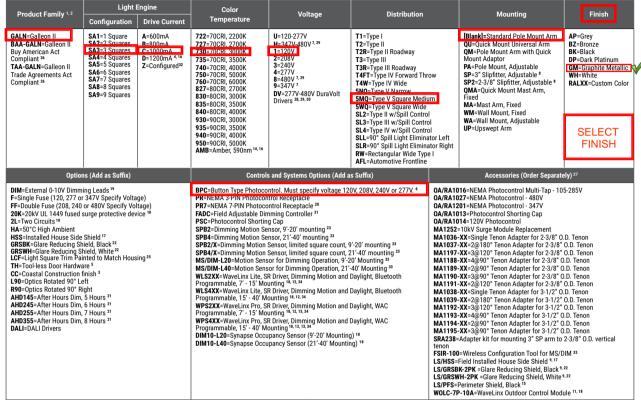
ML&C24-119319

McGraw-Edison

GALN Galleon II

Ordering Information

SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM



- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. DesignLights Consortium® Qualified. Refer to www.desginglights.org Qualified Products List under Family Models for details. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Coastal construction limits an spray reserve to over soon where the contract of the contract o

- Requires the use of an internal step down transformer when combined with sensor options. Not available in combination with the HA high amblent and sensor options at 1.4. SP arm limited to 3" 0.D. vertical tenon. SP 22 limited to 2" 3.P. overtical tenon. SP 22 limited to 2" 3.P. overtical tenon. SP 23 limited to 2" 3.P. overtical tenon. SP 24 limited to 2" 3.P. overtical tenon. SP 25 limited tenon. SP 25 l
- HSS option.

 15. Set of 4 pcs. One set required per Light Square

- Not for use with T1, 5NQ, 5MQ, 5WQ or RW optics Cannot be used with other control options.

- Cannot be used with other control options.

 Low voltage control lead brought out 18° outside fixture. Not available with DALI or integrated controls options

 Not available if any SPB, LWR, or WaveLinx sensor is selected. Motion sensor has an integral photocell.

 Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory.

 Not for use with 17, 174T, TAV or SL4 optics.

 Sensor configuration mobile application required for configuration. See controls page for details.

 Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page.

 Not available with HSS, GRSWH or GRSBK.
- 24. Replace Almin Induced or Light Squares Continued by the SerS, interesting the SerS, it and the SerS, it is continued by the SerS, it is the SerS, it is continued by the SerS, it is the S

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type		Data Backhaul
L=LumenSafe Technology	D=Standard Dome Camera H=Hi-Res Dome Camera Z=Remote PTZ Camera	C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint	R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

GALN-SA3C-730-1-5MQ-XX-BPC

Notes

Type:

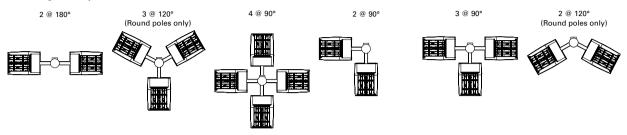
ML&C24-119319

McGraw-Edison

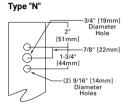
GALN Galleon II

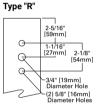
Mounting Details

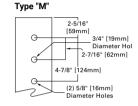
Pole Configuration Options



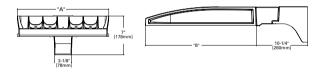
Pole Drilling Patterns



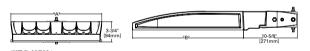




Quick Mount Universal Arm (QU)

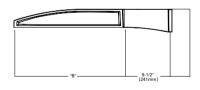


Quick Mount Mast Arm (QMA)

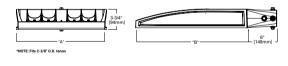


Pole Mount Arm with Quick Mount Adaptor (QM)

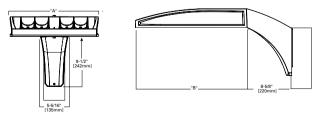




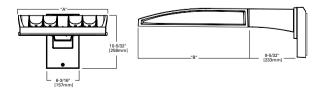
Mast Arm, Fixed (MA)



Upswept Arm (UP)



Wall Mount, Fixed (WM)



*NOTE: Universal bolt pattern compatible with Type N through Type M drilling pattern



PS500052EN page 3 April 19, 2024 2:27 PM

HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: GALN-SA3C-730-1-5MQ-XX-BPC

Notes:

Type:

P

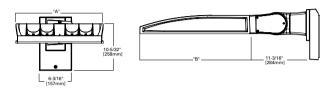
ML&C24-119319

McGraw-Edison

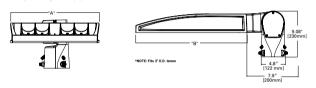
GALN Galleon II

Mounting Details

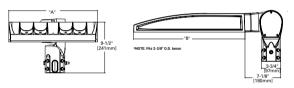
Wall Mount, Adjustable (WA)



3" Slipfitter, Adjustable (SP)



2-3/8" Slipfitter, Adjustable (SP2)



Pole Mount, Adjustable Arm (PA)



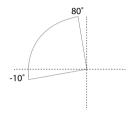
Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
0°	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
15°	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
30°	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
45°	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
60°	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

COOPER Lighting Solutions

Adjustable Arm Range of Motion

- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: GALN-SA3C-730-1-5MQ-XX-BPC

Notes:

Type:

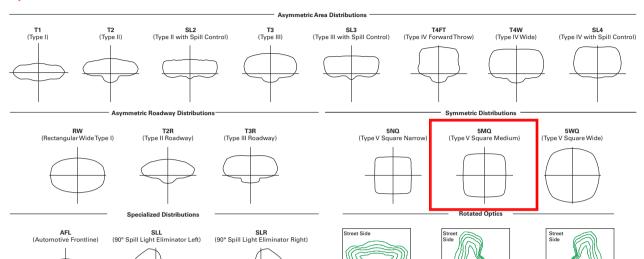
P

ML&C24-119319

McGraw-Edison

GALN Galleon II

Optical Distributions



Product Specifications

Construction

- · Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

Optics

- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 3 shielding options include HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)

Electrical

- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient

- environments. Optional 50°C high ambient (HA) configuration
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

Mounting

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available

 Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Typical Applications

 Outdoor, Parking Lots, Walkways, Roadways, Building Areas

Warranty

• Five year limited warranty



Catalog Number: GALN-SA3C-730-1-5MQ-XX-BPC

Notes:

Type:

ML&C24-119319

McGraw-Edison

GALN Galleon II

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
Up to 1A	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

Ambient Temperature	Lumen Multiplier					
0°C	1.02					
10°C	1.01					
25°C	1.00					
40°C	0.99					
50°C	0.97					

FADC Settings SA1-SA3 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

FADC Settings

SA4-SA6 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

Note: +/-5% typical value

FADC Settings SA7-SA9 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Note: +/-5% typical value



^{*} Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-90.

Notes:

Type:

P

ML&C24-119319

McGraw-Edison

GALN Galleon II

Performance Table, Drive Current "A" (615mA)

Minimar Power Minimar Power Minimar Power Minimar Power Minimar Power Minimar Power Minimar Minima	Perforn	erformance Table, Drive Current "A" (615mA)									
	Number	of Light Squares	1	2	3	4	5	6	7	8	9
	Nomina	Power (Watts)	33	63	93	121	154	182	215	244	274
	Input Cu	irrent @ 120V	0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
	Input Cu	irrent @ 208V	0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
	Input Cu	irrent @ 240V	0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
	-										
Page	-	-									
Common											
Month Mont		intent @ 460V	0.073	0.133	0.200	0.207	0.333	0.400	0.470	0.554	0.000
Description	Optics										
								·			
March Marc	T1										
Table		•									
Lumens per Wint		4000K Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
March Marc	T2	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
		Lumens per Watt	141	147	148	150	150	150	149	152	152
Common per Watt 143		4000K Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
Mathematic Ma	T2R	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
Note		Lumens per Watt	143	149	150	152	152	152	151	154	154
Lumens per Watt 139		4000K Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
Mode	Т3	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
Type		Lumens per Watt	139	145	146	148	147	148	147	150	150
Lumens per Watt 143 149 150 153 152 152 152 155 155 155 155 165 145		4000K Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
Model	T3R	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
Table Tabl		Lumens per Watt	143	149	150	153	152	152	152	155	155
Lumens per Watt 140		4000K Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
Model Mode	T4FT	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W Lumens per Watt B1-U0-C2 B2-U0-C2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B4-U0-G6 SL2 BU Rating 140 146 147 150 149 149 148 151 151 SL2 BU Rating 4,619 9,180 13,627 18,058 22,860 27,069 31,795 36,861 41,383 SL2 BU Rating B1-U0-G2 B2-U0-G2 B2-U0-G3 B3-U0-G4 B3-		Lumens per Watt	140	146	146	149	148	149	148	151	151
Lumens per Watt 140 146 147 150 149 149 148 151 151 151		4000K Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
Mode	T4W	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
Mode		Lumens per Watt	140	146	147	150	149	149	148	151	151
Lumens per Watt 140			4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
Lumens per Watt 140	SL2	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
March Marc											
Bug Rating Bi-Uo-Gi Bi-Uo-G		4000K Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
Lumens per Watt 139 145 145 148 147 148 147 150 150	SL3	BUG Rating	B1-U0-G1	B1-U0-G2				B3-U0-G4		B3-U0-G5	
Main		-									
BUG Rating B1-U0-G2 B1-U0-G3 B2-U0-G3 B2-U0-G4 B2-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G3 B3-U0-G2 B3-U0-G3 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G											
Lumens per Watt 137 143 144 146 146 146 146 145 148 148 148	SL4						· ·				
Mathematical Process of Section 1		-									
BUG Rating B2-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G2 B5-U0-G3 B5-U0-G4 B5-U0-G5 B5-U0-G3 B5-U0-G3 B5-U0-G4 B5-U0-G4 B5-U0-G4 B5-U0-G5 B5-U0-G5 B5-U0-G3 B5-U0-G4 B5-U0-G4 B5-U0-G5 B3-U0-G5 B3-U0-G											
Lumens per Watt 146 152 153 156 155 155 155 158	5NO			· ·				· ·			
March Marc	5.14	_									
Bug Rating Bug											
Lumens per Watt 147 153 154 157 156 156 155 159 159 5WQ 4000K Lumens 4,843 9,625 14,288 18,934 23,969 28,382 33,337 38,649 43,390 5WQ BUG Rating B3-U0-G1 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G4 B5-U0-G5 31,831 35,736 S5-U0-G3 B5-U0-G3 B5-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G5 B3-U0-G5 B3-U0-G3 B3-U0-G3 <	5MO		· ·						·		
4000K Lumens 4,843 9,625 14,288 18,934 23,969 28,382 33,337 38,649 43,390 5WQ BUG Rating B3-U0-G1 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G4 B5-U0-G5 31,831 35,736 B5-U0-G3 B5-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B3-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B3-U0-G5 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 <th< td=""><td>JIVIQ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	JIVIQ										
SWQ BUG Rating B3-U0-G1 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G4 B5-U0-G5 31,831 35,736 31,831 35,736 S5-U0-G5 B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G3 B2-U0-G3 B2-U0-G3 B2-U0-G3 B2-U0-G3 B3-U0-G5 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-											
Lumens per Watt 147 153 154 156 156 156 155 158 158 SLL/SLA 4000K Lumens 3,989 7,927 11,768 15,594 19,741 23,375 27,456 31,831 35,736 SLL/SLA BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 <td>5WO</td> <td></td>	5WO										
A000K Lumens 3,989 7,927 11,768 15,594 19,741 23,375 27,456 31,831 35,736	SWQ	_									
SLL/SIX BUG Rating B1-U0-G2 B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3											
Lumens per Watt 121 126 127 129 128 128 128 130 130	SLL/										
RW 4000K Lumens 4,774 9,488 14,085 18,665 23,628 27,979 32,863 38,100 42,774 BUG Rating B2-U0-G1 B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3 Lumens per Watt 145 151 151 154 153 154 153 156 156 AFL 4000K Lumens 4,673 9,286 13,785 18,268 23,126 27,384 32,164 37,290 41,864 BUG Rating B1-U0-G1 B1-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 Lumens per Watt 142 147 148 151 150 150 150 153 153	SLR	-									
RW BUG Rating B2-U0-G1 B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
Lumens per Watt 145 151 151 154 153 154 153 156 156 AFL 4000K Lumens 4,673 9,286 13,785 18,268 23,126 27,384 32,164 37,290 41,864 BUG Rating B1-U0-G1 B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 Lumens per Watt 142 147 148 151 150 150 150 153 153											
AFL 4000K Lumens 4,673 9,286 13,785 18,268 23,126 27,384 32,164 37,290 41,864 BUG Rating B1-U0-G1 B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 Lumens per Watt 142 147 148 151 150 150 150 153 153	RW										
AFL BUG Rating B1-U0-G1 B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 Lumens per Watt 142 147 148 151 150 150 150 153 153		,									
Lumens per Watt 142 147 148 151 150 150 150 153 153		4000K Lumens									
	AFL	BUG Rating									
Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.		Lumens per Watt	142	147	148	151	150	150	150	153	153
	* Nomina	I data for 70 CRI. ** For additional	al performance dat	a, please reference	e the Galleon Supp	lemental Perform	ance Guide.				

COOPER Lighting Solutions

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Notes:

Type:

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ML&C24-119319

McGraw-Edison

GALN Galleon II

Performance Table, Drive Current "B" (800mA)

Number	r of Light Squares	1	2	3	4	5	6	7	8	9
	l Power (Watts)	44	82	121	164	204	243	286	325	364
	urrent @ 120V	0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
_	urrent @ 208V	0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
	urrent @ 240V	0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
_	urrent @ 277V	0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
	urrent @ 347V	0.100	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
<u> </u>										
	urrent @ 480V	0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
	4000K Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
T1	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
	4000K Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
T2	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
	4000K Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
T2R	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
-	Lumens per Watt	133	142	143	140	142	142	141	144	144
	4000K Lumens	5,710	11,347	16,845	22,322	28,258	33,461 B3-U0-G4	39,303	45,565	51,155
Т3	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4		B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
Tan	4000K Lumens	5,892 B1-U0-G2	11,710 B2-U0-G2	17,383 B2-U0-G3	23,035 B3-U0-G4	29,161 B3-U0-G4	34,530 B3-U0-G5	40,558 B3-U0-G5	47,020 B3-U0-G5	52,788 B4-U0-G5
T3R	BUG Rating				140		142	142		145
-	Lumens per Watt	134	143	144		143			145	
T4FT	4000K Lumens BUG Rating	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
14F1		B1-U0-G2	B2-U0-G3 139	B2-U0-G3 140	B3-U0-G4 137	B3-U0-G4	B3-U0-G5 139	B3-U0-G5	B4-U0-G5 141	B4-U0-G5
	Lumens per Watt 4000K Lumens	131 5,762	11,451	16,999	22,526	139 28,517	33,767	138 39,662	45,982	141 51,622
T4W	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	84-U0-G5	B4-U0-G5
1400	Lumens per Watt	131	140	140	137	140	139	139	141	142
	4000K Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
SL2	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
J SEE	Lumens per Watt	131	139	140	137	139	139	138	141	141
	4000K Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
SL3	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
	4000K Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
SL4	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
	4000K Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
5NQ	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
'	Lumens per Watt	137	146	147	143	146	145	145	148	148
	4000K Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
5MQ	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
'	Lumens per Watt	137	146	147	144	147	146	145	148	149
	4000K Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
5WQ	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
	4000K Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
SLL/	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SLR	Lumens per Watt	113	120	121	118	120	120	119	122	122
	4000K Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
RW	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
	4000K Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
AFL	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143
* Nomina	l data for 70 CRI. ** For addition						1	<u> </u>	I.	1

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Notes:

Type:

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ML&C24-119319

McGraw-Edison

GALN Galleon II

Performance Table, Drive Current "C" (1050mA)

Numbe	r of Light Squares	1	2	3	4	5	6	7	8	9
Nomina	l Power (Watts)	57	108	160	213	269	321	377	429	481
Input Co	urrent @ 120V	0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
Input Co	urrent @ 208V	0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
Input C	urrent @ 240V	0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
Input C	urrent @ 277V	0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
Input C	urrent @ 347V	0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
Input C	urrent @ 480V	0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
	4000K Lumens	7,101	14,113	20,950	27,763	35,146	41,616	48,882	56,671	63,623
T1	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	131	131	130	131	130	130	132	132
	4000K Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
T2	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	132	132	131	132	131	131	133	133
TOD	4000K Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
T2R	BUG Rating Lumens per Watt	B1-U0-G1 127	B2-U0-G2 133	B2-U0-G3 134	B3-U0-G3 133	B3-U0-G4 133	B3-U0-G4 132	B3-U0-G5 132	B4-U0-G5 135	B4-U0-G5 135
	4000K Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
Т3	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
	4000K Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
T3R	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	134	134	134	134	133	133	135	136
	4000K Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
T4FT	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
	4000K Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
T4W	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
SL2	4000K Lumens	7,101 B1-U0-G2	14,112	20,949 B3-U0-G3	27,761	35,144	41,614	48,879	56,668	63,619
SLZ	BUG Rating Lumens per Watt	125	B2-U0-G3 131	131	B3-U0-G4 130	B3-U0-G5 131	B4-U0-G5 130	B4-U0-G5 130	B4-U0-G5 132	B4-U0-G5 132
	4000K Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
SL3	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
	4000K Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
SL4	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
	4000K Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
5NQ	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
F7	4000K Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
5MQ	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt 4000K Lumens	131 7,445	137 14,797	138 21,966	137 29,108	137 36,849	136 43,633	136 51,250	139 59,417	139 66,705
5WQ	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
5	Lumens per Watt	131	137	137	137	137	136	136	139	139
	4000K Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
SLL/ SLR	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SLK	Lumens per Watt	108	113	113	113	113	112	112	114	114
	4000K Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
RW	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	135	135	135	135	134	134	137	137
	4000K Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
AFL	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134
* Nomina	al data for 70 CRI. ** For additiona	ai pertormance dat	a, please reference	tne Galleon Supp	nemental Performa	ince Guide.				

COOPER
Lighting Solutions



Notes:

Type:

P

ML&C24-119319

McGraw-Edison

GALN Galleon II

Performance Table, Drive Current "D" (1200mA)

		nance Table, Drive Curren	1	2	3	4	5	6	7	8	9
			· ·								
				125						493	
	Input Cu	irrent @ 120V	0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605
	Input Cu	irrent @ 208V	0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679
	Input Cu	irrent @ 240V	0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274
	Input Cu	irrent @ 277V	0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987
Common C	Input Cu	irrent @ 347V	0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628
Continues 7,214	Input Cu	ırrent @ 480V	0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173
March Marc	_										
No. Michael Michael	0 1.00	4000K Lumono	7.014	15 520	22.052	20.540	20.672	45.702	F2 707	62.250	70.007
Marcia per West 130	T-1									+	
Model Lumens 7.877 15,646 23,225 30,777 38,062 46,136 54,186 52,246 73,55 10,000	"										
17											
Table Common Co											
Marcine Marc	Т2	_								-	
Money Lumeny per Watt 123 127 128 127 128 127 127 127 129 12										 	71,472
March	T2R										B4-U0-G5
March Marc			123	127		127		127	127	129	129
Marcine Marc		4000K Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
Mode Cummers	Т3	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
Table Using Rating B1-U0-G2 B2-U0-G3 B3-U0-G4 B3-U0-G5 B3-U0-G5 B4-U0-G5 B4-U0-G5		Lumens per Watt	119	123	124	124	124	124	123	126	126
Limens per Wint 123		4000K Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
Model Mode	T3R	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
Table Tabl		Lumens per Watt	123	127	128	128	128	128	127	130	130
Lumens per Watt 120 124 125 125 126 124 124 126 127 70.18		4000K Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
TAME MOUNT TAME	T4FT	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
Table Bus Rating Bus December Bus December		Lumens per Watt	120	124	125	125	125	124	124	126	127
Lumens per Watt 121 125 126 125 125 125 125 125 125 127 127 127		4000K Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
SL2 Mook Lumens 7,813 15,528 23,952 30,547 38,670 45,790 53,784 62,254 70,000	T4W	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2 BUG Rating B2-U0-G2 B3-U0-G3 B3-U0-G4 B3-U0-G4 B4-U0-G5 B		Lumens per Watt	121	125	126	125	125	125	125	127	127
Lumens per Watt 120 124 125 125 125 124 124 126 127 128 128 124 124 126 127 128		4000K Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
Main	SL2	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SLA BUG Rating B1-U0-G2 B2-U0-G3 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B4-U0-G5 B		Lumens per Watt	120	124	125	125	125	124	124	126	127
SLA BUG Rating B1-U0-G2 B2-U0-G3 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B4-U0-G5 B		4000K Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
Lumens per Watt 119 123 124 66,64 68,64 73,19 73,19 40,00 83,40 65,232 66,133 73,19 73,19 40,00 83,40 66,232 66,133 73,19 86,40 131 130 131 130 130 131 130 130 131 130 131 130 130	SL3	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
Mathematical Process Mathematical Process		_									126
BL4 BUG Rating B1-U0-G3 B2-U0-G4 B3-U0-G5 B		•								-	68,646
Lumens per Watt 118 122 123 122 123 122 122 124 125 127 126 136 137 131	SI 4										B4-U0-G5
March Marc		-									
Bug Rating B3-u0-G1 B3-u0-G2 B4-u0-G2 B5-u0-G3 B5-u0-G3 B5-u0-G4 B5-u0-G5 B3-u0-G5 B3-u0-G		,									
Lumens per Watt 126	5NO									+	B5-U0-G4
Mode	one	_									
Bus Bus										 	
Lumens per Watt 126	5MO										
Mathematical Process of State Mathematical Process of Stat	JIVIQ	-									
SWQ BUG Rating B3-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G4 B5-U0-G4 B5-U0-G5 B3-U0-G5 B		·								<u> </u>	
Lumens per Watt 126 130 131 131 131 130 130 130 133	5W0									1	
A000K Lumens G.747 13,410 19,906 26,379 33,394 39,542 46,445 53,846 60.45	311Q	_									
SLL/SLA BUG Rating B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B4-U0-G5 B4-U0-G5 B4-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B4-U0-G5 B4-U0-G5 B3-U0-G3 B3-U0-G4 B3-U0-G5 B3-U0-G3 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G5 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G5											
SLR BUG Hating B1-00-62 B2-00-63 B2-00-64 B3-00-64 B3-00-65 B3-00-65 B3-00-65 B3-00-65 B3-00-65 B4-00-65 B4-00-65 B3-00-65 B3-00-65 B4-00-65 B4-00-65 B3-00-65 B3-00-65 B4-00-65 B4-00-65 B3-00-64 B3-00-65 B3-00-65 B4-00-65 B3-00-64 B3-00-65 B3-00-65 B4-00-65 B3-00-62 B3-00-65 B3-00-64 B3-00-64 <t< td=""><td>SLL/</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	SLL/										
RW 4000K Lumens 8,076 16,050 23,826 31,574 39,970 47,329 55,592 64,450 72,35 BUG Rating B3-U0-G1 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G4	SLR	-									
RW BUG Rating B3-U0-G1 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G4 B5-U0-G4 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
Lumens per Watt 124 128 129 129 129 129 128 131 131 AFL 4000K Lumens 7,904 15,709 23,320 30,902 39,120 46,323 54,410 63,079 70,81 BUG Rating B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G4 B4-U0-G4 B4-U0-H Lumens per Watt 122 126 127 126 127 126 126 128 128											72,356
AFL 4000K Lumens 7,904 15,709 23,320 30,902 39,120 46,323 54,410 63,079 70,81 BUG Rating B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G4 B4-U0-G4 B4-U0-G4 Lumens per Watt 122 126 127 126 127 126 126 128 128	RW										B5-U0-G5
AFL BUG Rating B1-U0-G1 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G4 B4-U0-G4 B4-U0-G4 Lumens per Watt 122 126 127 126 127 126 126 128 128											
Lumens per Watt 122 126 127 126 127 126 126 128 128		4000K Lumens									70,817
	AFL	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.		Lumens per Watt	122	126	127	126	127	126	126	128	128
	Nomina	I data for 70 CRI. ** For additional	al performance dat	a, please reference	the Galleon Supp	lemental Perform	ance Guide.				

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HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: GALN-SA3C-730-1-5MQ-XX-BPC

Type:

ML&C24-119319

McGraw-Edison

GALN Galleon II

Control Options

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB and MS/DIM-LXX)

These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire turns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the

Default Program Settings (Out of the Box Functionality)

SPB sensor finish matched to luminaire finish						
Lu	minaire Finish	SPB Sensor Finish*				
WH White White						
ВК	Black	Black				
GM	Graphite Metallic	Black				
BZ	Bronze	Bronze				
AP	Gray					
DP Dark Platinum Gray						
SPB bezel color automatically selected based on luminaire finish						

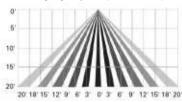
SPB/X Availability Table					
Fixture Square Count	Available SPB/X Square Count				
1	Not Available				
2	Not Available				
3	Not Available				
4	2				
5	2 or 3				
6	3				
7	2, 3, 4 or 5				
8	2, 3, 5 or 6				
9	3 or 6				

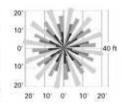
Occupancy Sensor								
Setting	MS/DIM	SPB	WaveLinx Lite (WLS4 / WLS2)	WaveLinx (WPS)				
High Mode %	100%	100%	100%	100%				
Low Mode %	10%	10%	50%	50%				
Time Delay	5 min	5 min	15 min	15 min				
Cut Off Delay	1 hr	1 hr	Disabled	Disabled				
Photocell Enabled	No	No	Yes	Yes				

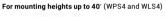
WaveLinx Wireless Control and Monitoring System

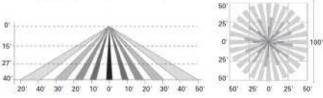
Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at

For mounting heights up to 15' (WPS2 and WLS2)









LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions

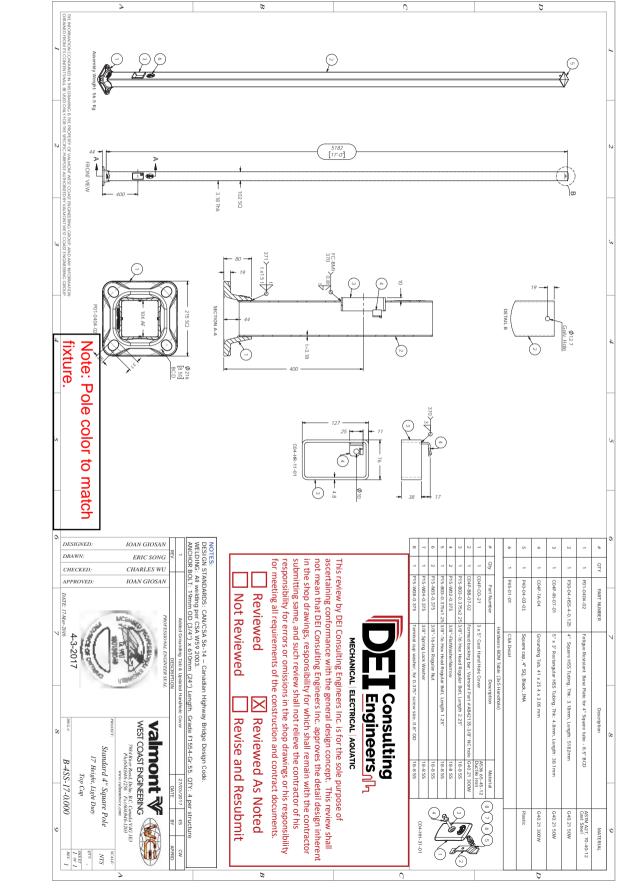


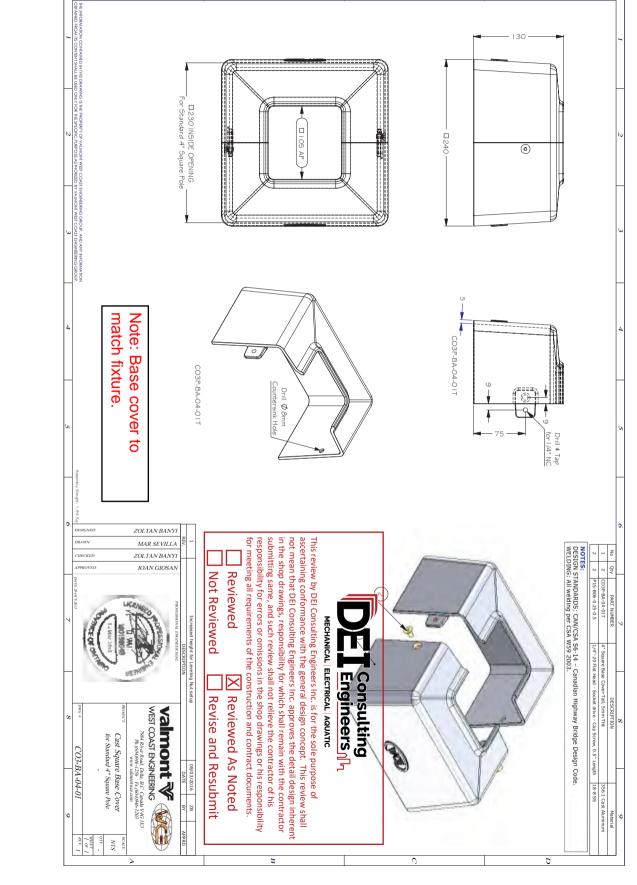
Cooper Lighting Solution 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 w.cooperlighting.com

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Specifications and dimensions subject to change without notice.

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HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: IST-SA1D-730-1-T4FT-XX-BPC

Type:

W



Notes:



McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3
- Control Options page 4

Product Certifications









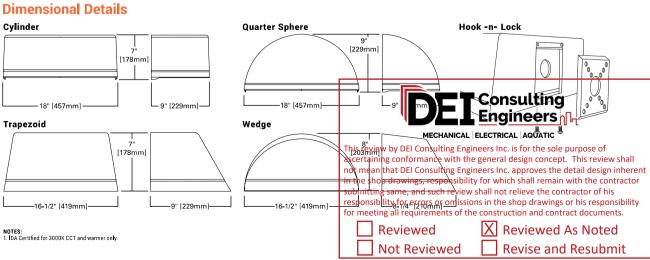


Quick Facts

- · 15 Optical Distributions
- · Lumen packages range from 2,459 to 11,480 (20W - 95W)
- · Efficacy up to 149 lumens per watt

Connected Systems

- WaveLinx
- Enlighted





Note: Finish by Architect.



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: IST-SA1D-730-1-T4FT-XX-BPC

Notes:



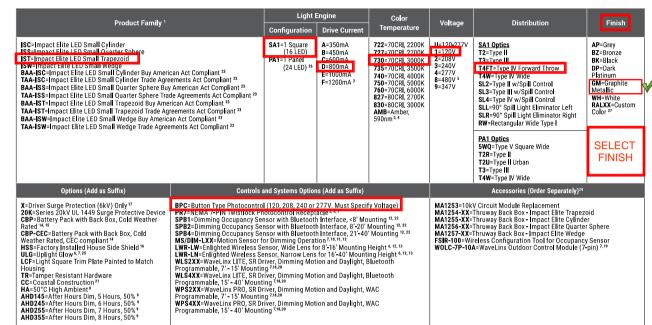
ML&C24-119319

McGraw-Edison

Impact Elite LED

Ordering Information

SAMPLE NUMBER: ISC-SA1F-740-U-T3-BZ



- NOTES:
 1. Design.Light Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
 2. Not available with ULG option.
 3. Choose Drive Current "A for Amber 590nm, which is provided at 500mA only.
 4. Natrow-band 590nm 47-5mm for wildlife and observatory use. Exact luminaire wattage available in IES files. Available with SWQ, SMQ, SLS, 25.3 and SL4 distributions. Can be used with HSS option.
 5. 480V not to be used with ungrounded or impedance grounded systems.
 6. Not available with ISS or ISS.
 7. Cannot be used in conjunction with other control options.
 8. Suitable for SVC provided no options other than motion sensor are included and driver output set to 1000mA or less.
 9. Requires the use of photocontrol. Not available with \$50mA drive current. See After Hours Dim supplemental guide for additional information.

- Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
 Replace LXX with L08 (se' mounting), L20 (8-20' mounting) or L40W (21-40' mounting).
 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
 Endiphed wireless sensors are factory installed and require network components in appropriate quantities.
 Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes.
 Must specify 120V or 277V.

- Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.

- 16. Not for use with SNQ, SMQ, SWQ or RW optics. A black trim plate is used when HSS is selected.

 77. Removes additional surper module.

 8. Replace XX with sensor cobor (WH, BZ, or BK).

 9. For WaveLinx with sensor cobor (WH, BZ, or BK).

 9. For WaveLinx applications, WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed, Gateway not required for WaveLinx Lite Commercial (LC) applications.

 10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.

 23. Smart dievice with mobile application required to change system defaults. See controls section for details.

 24. Only product configurations with these designated prefires are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFIRENCES website for more information Components shipped separately may be separately analyzed under domestic preference requirements.

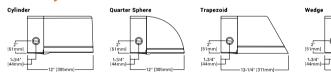
 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements.

 25. Only available in 3000K, 4000K or 5000K CCT.

 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx.

 75. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

- · Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

Two black oxide coated Allen set screws concealed but accessible from below

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- · Coastal Construction (CC) option available

Five year limited warranty, consult website for details. www.cooperlighting.com/legal





Catalog Number: IST-SA1D-730-1-T4FT-XX-BPC

Notes:



W

ML&C24-119319

McGraw-Edison

Impact Elite LED

Energy and Performance Data

Yiew Impact Elite IES files

1 Light Square	(SA)		Cylinde	r (ISC) and Q	uarter Sphere	(ISS)			Tra	pezoid (I ST) a	and Wedge (I	SW)	
Drive Current (mA)	350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
O	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
Current (A)	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
Current (A)	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K,	70 CRI)												
	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
T2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
Т3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
T4FT	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
T4W	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
SL2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
SL3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
SL4	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
SLL	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
RW	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121



Catalog Number: IST-SA1D-730-1-T4FT-XX-BPC

Notes:



W

ML&C24-119319

McGraw-Edison

Impact Elite LED

1 Light Panel (F	PA)		Cylinde	r (ISC) and Qı	uarter Sphere	(ISS)		Trapezoid (IST) and Wedge (ISW)					
Drive Current (n	nA)	350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36,4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
Current (A)	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
0	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
Current (A)	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K,	70 CR I)												
	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
T2R	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
T2U	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
Т3	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
T4W	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
5WQ	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
Up to 1A	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

•	
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



^{*} Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LMS-1



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: IST-SA1D-730-1-T4FT-XX-BPC

Notes

Type:

MI 9 CO4 440040

McGraw-Edison

Impact Elite LED

Control Options

0-10V

This fixture is offered standard with 0-10V dimming driver(s).

Photocontrol (BPC and PR7)

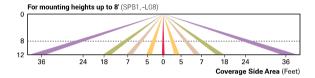
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

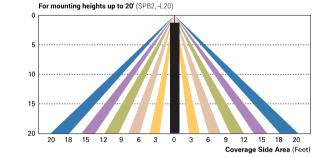
After Hours Dim (AHD)

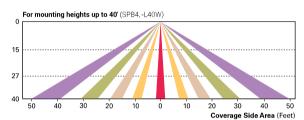
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

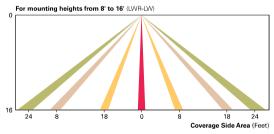


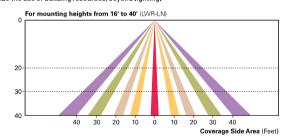




Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

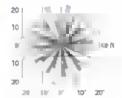




WaveLinx Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLO-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.











Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 © 2024 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice.

PS500049EN page 5 April 22, 2024 4:05 PM Addition Engineer: DEI & Associates (Waterloo)

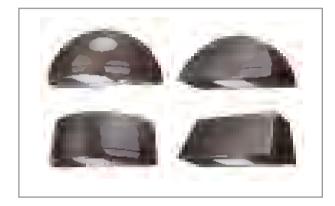
HDSB - Glenview Public School Gym

Notes:

Type:

W1





McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3
- Control Options page 4

Product Certifications











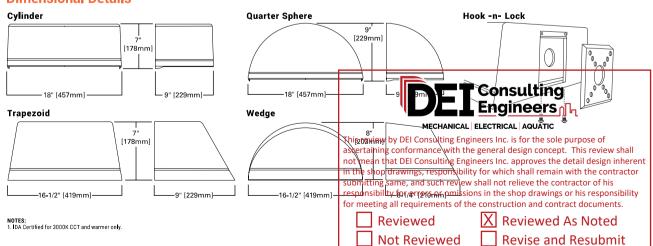
Quick Facts

- · 15 Optical Distributions
- · Lumen packages range from 2,459 to 11,480 (20W - 95W)
- · Efficacy up to 149 lumens per watt

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details





Note: Finish by Architect.

PS500049EN page 1 April 22, 2024 4:05 PM

HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: IST-SA1E-730-1-T4FT-XX-BPC

Notes:

Type:

W1

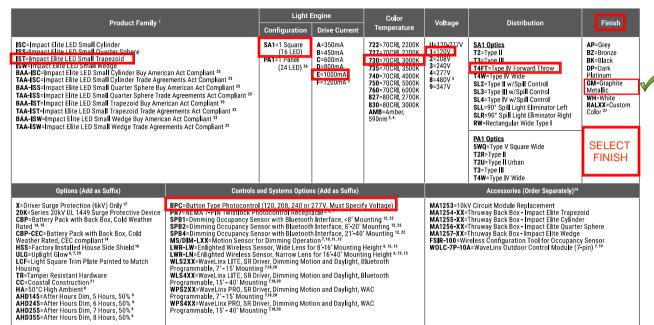
ML&C24-119319

McGraw-Edison

Impact Elite LED

Ordering Information

SAMPLE NUMBER: ISC-SA1F-740-U-T3-BZ



I N=1 amper Nesistant Hardware CC=Coastal Construction²¹ HA=50°C High Ambient* AHD145=After Hours Dim, 5 Hours, 50%, 9 AHD245=After Hours Dim, 6 Hours, 50%, 9 AHD255=After Hours Dim, 7 Hours, 50%, 9 AHD355=After Hours Dim, 8 Hours, 50%, 9

- NOTES:
 1. Design.Light Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
 2. Not available with ULG option.
 3. Choose Drive Current "A for Amber 590nm, which is provided at 500mA only.
 4. Natrow-band 590nm 47-5mm for wildlife and observatory use. Exact luminaire wattage available in IES files. Available with SWQ, SMQ, SLS, 25.3 and SL4 distributions. Can be used with HSS option.
 5. 480V not to be used with ungrounded or impedance grounded systems.
 6. Not available with ISS or ISS.
 7. Cannot be used in conjunction with other control options.
 8. Suitable for SVC provided no options other than motion sensor are included and driver output set to 1000mA or less.
 9. Requires the use of photocontrol. Not available with \$50mA drive current. See After Hours Dim supplemental guide for additional information. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
 Replace LXX with L08 (se' mounting), L20 (8-20' mounting) or L40W (21-40' mounting).
 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
 Endiphed wireless sensors are factory installed and require network components in appropriate quantities.
 Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes.
 Must specify 120V or 277V.

- Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.

- 16. Not for use with SNQ, SMQ, SWQ or RW optics. A black trim plate is used when HSS is selected.

 77. Removes additional surper module.

 8. Replace XX with sensor cobor (WH, BZ, or BK).

 9. For WaveLinx with sensor cobor (WH, BZ, or BK).

 9. For WaveLinx applications, WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed, Gateway not required for WaveLinx Lite Commercial (LC) applications.

 10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.

 23. Smart dievice with mobile application required to change system defaults. See controls section for details.

 24. Only product configurations with these designated prefires are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFIRENCES website for more information Components shipped separately may be separately analyzed under domestic preference requirements.

 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements.

 25. Only available in 3000K, 4000K or 5000K CCT.

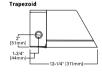
 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx.

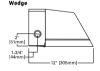
 75. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.

Thruway Back Box

[51mm]







Product Specifications

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

- · Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

Two black oxide coated Allen set screws concealed but accessible from below

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- · Coastal Construction (CC) option available

Five year limited warranty, consult website for details. www.cooperlighting.com/legal





Catalog Number: IST-SA1E-730-1-T4FT-XX-BPC

Notes:

Type:

W1

ML&C24-119319

McGraw-Edison

Impact Elite LED

Energy and Performance Data

P	View Impact Elite IES files

1 Light Square	(SA)		Cylinde	r (I SC) and Q	uarter Sphere	(ISS)			Tra	pezoid (IST) a	and Wedge (Is	SW)	
Drive Current (r	mA)	350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Q	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
Current (A)	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
Current (A)	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K,	70 CRI)												
	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
T2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
Т3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
T4FT	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
T4W	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
SL2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
SL3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
SL4	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
SLL	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
RW	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121



Catalog Number: IST-SA1E-730-1-T4FT-XX-BPC

Notes:

Type:

W1

ML&C24-119319

McGraw-Edison

Impact Elite LED

1 Light Panel (F	PA)	Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (n	nA)	350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36,4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
Current (A)	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Command (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
Current (A)	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K,	70 CRI)												
	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
T2R	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
T2U	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2 - U0-G2	B2 - U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
Т3	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
T4W	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
5WQ	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
Up to 1A	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
1.2A	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

•					
Ambient Temperature	Lumen Multiplier				
10°C	1.02				
15°C	1.01				
25°C	1.00				
40°C	0.99				



^{*} Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LMS-1



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) **Catalog Number:** IST-SA1E-730-1-T4FT-XX-BPC

Type:

McGraw-Edison

Impact Elite LED

Control Options

This fixture is offered standard with 0-10V dimming driver(s).

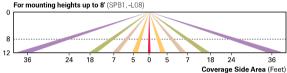
Photocontrol (BPC and PR7)

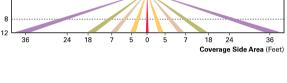
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

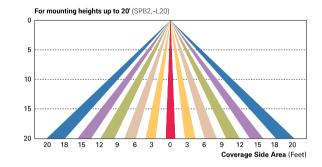
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

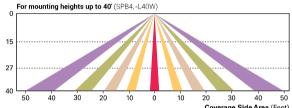
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



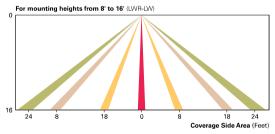


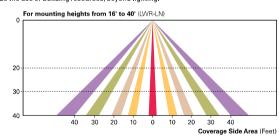




Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

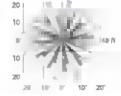




WaveLinx Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at









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PS500049EN page 5 April 22, 2024 4:05 PM

HDSB - Glenview Public School Gym

Catalog Number:

HC625D010//HM60525830//61MDH

Notes:



Project Catalog # Туре Notes Prepared by Date



HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

Office · Healthcare · Hospitality · Institutional · Mixed-Use/Retail

Interactive Menu

- Order Information page 2
- · Product Specifications page 4
- Photometric Data page 5
- Energy & Performance Data page 8
- Connected Systems page 10
- · Product Warranty

Product Certification











Product Features



Control Compatibility

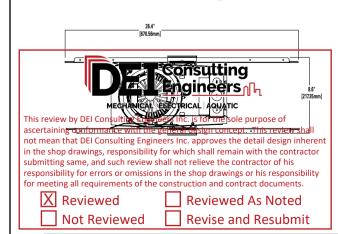


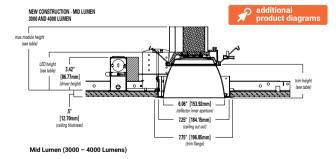


Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- · Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- · Mounting frame converts to remodel that installs from below the ceiling
- · Quick Spec emergency backup mounting frames fast delivery option

Dimensional and Mounting Details





Distribution	Max. Module Height	Trim Height	LED Height		
Narrow	6.6"	3.4"	3.8"		
Medium	6.7"	3.5"	3.9"		
Wide	6.5"	3.3"	3.7"		
Baffle	6.5"	3.3"	3.7"		





Catalog Number:

HC625D010//HM60525830//61MDH

Notes:

Type:



ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

Mounting Frame Order Information

Sample Number: HC620D010REM7 - HM60525835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC6 = 6" new construction downlight housing HC6CP = 6" new construction housing, Chicago Plenum - CCEA compliant	05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm (7) 55 = 5500 lm (7) 60 = 6000 lm (7)	D010=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-5000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming, For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lim models only (**) Canada Option 5500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lim models only (**) DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with 0010 only (0.00) REM14 = 14 watt emergency battery pack with remote test / indicator light, use with 0010 only (0.00) IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with 0010 only (0.00) IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with 0010 only (0.00) BOD7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with 0010 only (0.00) WTA = Factory WaveLinx PRO Tilemount Sensor Kit (0) WTF = Factory WaveLinx LTIF Tilemount Sensor Kit (0) WPN = WaveLinx LTIF Wireless Node without Sensor (0) WLN = WaveLinx LTIF Wireless Node without Sensor (0) WLN = WaveLinx LTIF Wireless Node without Sensor (10) REMV7 = 7 watt emergency battery pack with remote test / indicator light, use with DUV only (0.00) (0) REMV14 = 14 watt emergency battery pack with remote test / indicator light, use	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long HSA6 = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim) H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 20VA WTA = Field WaveLinx PRO Tilemount Sensor Kit ⁽⁶⁾ WTK = Field WaveLinx LITE Tilemount Sensor Kit ⁽⁶⁾
		DLVP specifications for details. (1)	with DLV only $\varpi(\alpha)$ (a) IEMV7 = 7 watternergency battery pack with integral test / indicator light, use with DLV only $\varpi(\alpha)$ (b) IEMV14 = 14 watternergency battery pack with integral test / indicator light, use with DLV only $\varpi(\alpha)$ (c)	
Notes	Notes (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36* Center of Luminaire to Building Member = 18* Minimum overhead = 0.5	Notes (1) Not available with CP models	Notes (1) Not available with CP models (2) Not available with D010347 (347V models) (3) Ulus for U.S. only (4) WTA - WaveLinx PRO tilemount sensor kit for daylight dimming. PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinx PRO specifications.) (5) WTK - WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinx LITE specifications.) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (9) WPN - WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor, Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10 vider only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinx PRO specifications.) (10) WLN = WaveLinx LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor, Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10 vider only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinx LITE specifications.)	Notes (4) WTA = WaveLinx PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 010 10 only. (Refer to WaveLinx PRO specifications.) (5) WTK = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with 010 only. (Refer to WaveLinx LITE specifications.)

Quick Spec Emergency Mounting Frame Order Information

Sample Number:

Quick Spec Emergency Mounting Frame: RR-HC620D010REM7

Order separately: LED Module: HM60525835 | Reflector: 61MDC

Select from the Quick Spec Mounting Frame ordering information to receive the Fast Delivery option for the frame.

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
RR = East Region BRR = West Region	HC6 = 6° new construction downlight housing	10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{20,60} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{20,60} IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{20,60} IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{20,60}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long
Notes	Notes	Notes	Notes	Notes	Notes
				(2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C	



Catalog Number:

HC625D010//HM60525830//61MDH

Notes:





ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

LED Module Order Information

LED Module	Lumens			CRI/CCT
HM6 = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen	J	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes			Notes

Trim Order Information

20.	P. 1 + (9)	F 11	-	
Reflector 61 = 6" conical reflector	Distribution® ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC RWW = rotatable wall wash with linear	Finish C = Specular clear H = Semi-specular clear w = wnite	Flange Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	Accessories 61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" baffle reflector	WD = wide 65° beam angle 1.28 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option available with BB	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.			

Reflector	Distribution ⁽⁸⁾	Finish	Flange
61PS = 6" non-conductive polymer 'dead front' conical reflector (9)	MD = medium 60° beam angle 1.10 SC (nominal)	W = White	Blank = White flange standard with W reflector
Notes	Notes	Notes	Notes
(9) 61PS is 1000-2000 lumens Non-IC rated. 500 & 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.	(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.		

IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6° IEM reflector for integral emergency only	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.			

IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM baffle reflector for integral emergency only	WD = wide 65° beam angle 1.28 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option with BB	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

HC625D010//HM60525830//61MDH

Notes:



ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

Product Specifications

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- · Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- · Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- · Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- · Available in multiple painted or plated finishes

Reflector/Module Retention

 Reflector/module assembly is securely retained in the housing with two torsion springs

Drive

- Field-replaceable constant current driver provides low noise operation
- · Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quick-turn projects

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

 WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available

WaveLinx PRO Wireless Node

 WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

 WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

 WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by directmount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.
- Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.

Junction Box

- · Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- · 25 in3 internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
- Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
- IP20 Above finished ceiling; IP65 Below finished ceiling
- Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
- Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
- Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
- Marked Spacing Center to Center of Adjacent Luminaires = 36"
- Center of Luminaire to Building Member = 18"
- Minimum overhead = 0.5"
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- Contains no mercury or lead and RoHS compliant
- Photometric testing completed in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
- May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database
- *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Submitted On: Jul 10, 2024

Catalog Number:

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Notes:





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HALO Commercial

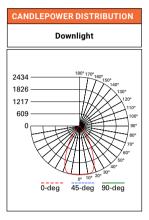
HC6 | HM6 | 61 | 61PS

Photometric Data



NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARRO	OW (55° BEAM*)
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7



CONE OF LIGHT			
0° D			
МН	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

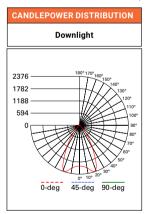
CANDELA TABLE		
Degrees Vertical	Candela	
0	2427	
5	2422	
15	2405	
25	1621	
35	761	
45	118	
55	12	
65	3	
75	2	
85	0	
90	0	

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE		
Average Candela Degrees	Average 0° Luminance	
45	9187	
55	1118	
65	376	
75	318	
85	0	

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIL	JM (60° BEAM*)
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8



0.			
МН	FC	L	w
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CONE OF LIGHT

CANDEL	A TABLE
Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0
	Degrees Vertical 0 5 15 25 35 45 55 65 75 85

ZONAL LUMEN SUMMARY						
Zone	Lumens	% Fixture				
0-30	1671	72.4				
0-40	2163	93.8				
0-60	2301	99.7				
0-90	2307	100				
90-180	0	0				
0-180	2307	100				

LUMIN	IANCE
Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0



Catalog Number:

HC625D010//HM60525830//61MDH

Degrees Vertical

0 5

15

25

35__

0

Notes:



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HALO Commercial

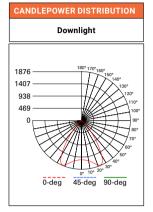
HC6 | HM6 | 61 | 61PS

Photometric Data



WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)			
Test Number	P581885		
Housing	HC620D010		
Module	HM60525835		
Reflector	61WDC		
Lumens	2359 Lm		
Efficacy	118 Lm/W		
SC	1.28		
UGR	11.6		



CONE OF LIGHT				
0° D				
МН	FC	L	w	
5.5'	50.5	7	7	
7'	31.2	8.8	8.8	
8'	23.9	10.2	10.2	
9'	18.8	11.4	11.4	
10'	15.3	12.8	12.8	
12'	10.6	15.4	15.4	

•	•				
1	A TABLE		ZONALL	UMEN SU	JMMAR
	Candela		Zone	Lumens	% Fixture
	1526		0-30	1461	61.9
	1540				
	1685	1	0-40	2105	89.2
	1861		0-60	2351	99.6
	1027		0-90	2359	100
	252		- ,,,	2007	
_	32	ĺ	90-180	0	0
	6		0-180	2359	100
	2	1			
_		i			

LUMINANCE				
Average Candela Degrees	Average 0° Luminance			
45	19506			
55	3078			
65	765			
75	318			
85	0			

*Value are nominal with specular clear reflectors, other finishes and field results may vary. SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76
4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen			
1.81	2.17	2.28	2.38	2.65			

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	Н	W/WB	BB
	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes

CCT Multipliors - 90CDI

OOT Multiplier	3 000111			
2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

Catalog Number:

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Notes:





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HALO Commercial

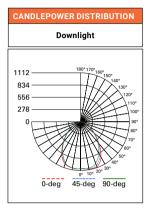
HC6 | HM6 | 61 | 61PS

Photometric Data



WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH								
Test Number	P581882							
Housing	HC620D010							
Module	HM60525835							
Reflector	61RWWC							
Lumens	2179 Lm							
Efficacy	109 Lm/W							
sc	1.15							



CANDEL	A TABLE	
Degrees Vertical	Candela	
0	1080	
5	1081	
15	1112	
25	1034	
35	800	
45	514	
55	319	
65	184	
75	85	
85	12	
90	0	

ZONAL LUMEN SUMMARY								
Zone	Lumens	% Fixture						
0-30	849	39						
0-40	1313	60.2						
0-60	1978	90.8						
0-90	2179	100						
90-180	0	0						
0-180	2179	100						

LUMINANCE								
Average Candela Degrees	Average 0° Luminance							
45	39810							
55	30479							
65	23907							
75	17983							
85	7359							

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

	2.5' from wall (distance from fixture along wall)										
1	19.3	19.3 13.8 6.1 2.2 0.7 0.3 0.1									
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6				
3	27.6	22.5	13.8	7.3	3.7	1.9	1				
4	21	18.2	12.4	7.4	4.2	2.4	1.4				
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6				
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6				
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5				
8	4.7	4.6	4.1	3.4	2.7	2	1.4				

MULTIPLE UNIT FOOTCANDLES											
		5' from w e from fixtu — 3'''		2.5' from wall (Distance from fixture along							
1	21.5	19.1	21.5		20	12.1	20				
2	34.7	34.4	34.7		31.6	24.6	31.6				
3	34.9	36	34.9		31.3	27.6	31.3				
4	28.4	30.7	28.4		25.2	24.8	25.2				
5	21	23.2	21	21	18.6	19.8	18.6				
6	15.2	16.8	15.2		13.4	15	13.4				
7	11	12	11		9.9	11	9.9				
8	8.1	8.7	8.1		7.4	8.2	7.4				
9	6.1	6.5	6.1		5.6	6.2	5.6				
10	4.6	4.9	4.6		4.3	4.7	4.3				

Photometric Multipliers (Nominal Lumen Values)

3.4 3.3 3.1 2.7 2.2 1.7 1.3

10 2.5 2.5

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76
4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen			

1.1

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	Н	W/WB	BB
Finish	Finish Specular Clear		Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

1.8

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

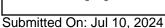
CCT Multipliers - 90CRI

	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.





HDSB - Glenview Public School Gym

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Notes:



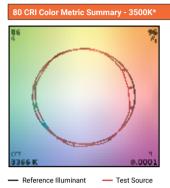
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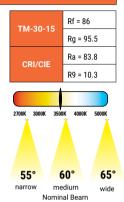
HALO Commercial

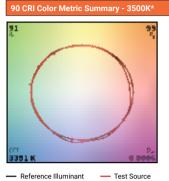
HC6 | HM6 | 61 | 61PS

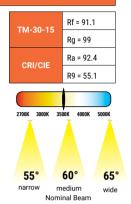
Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)









* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 l	umen	750 l	umen	1000	lumen	1500	lumen	2000	umen
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 l	lumen	3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000	lumen	5500	lumen	6000	lumen
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*

(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:* Emergency Battery packs are rated for a minimum starting temperature of 0°C.



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HC625D010//HM60525830//61MDH

Type:

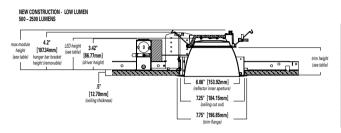
ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 - 2500 LUMENS



Low Lumen (500 - 2500 Lumens)*

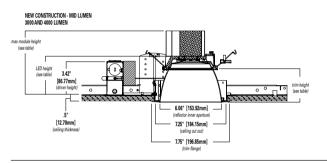
Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"
	11.1		



Low Lumen Module

*Max. height w/removable hanger bar bracket 4.2"

NEW CONSTRUCTIONS - MID LUMEN 3000 - 4000 LUMENS



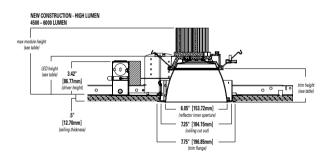
Mid Lumen (3000 - 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 - 6000 LUMENS



High Lumen (4500 - 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height	
Narrow	6.9"	3.4"	3.8"	
Medium	7.0"	3.5"	3.9"	
Wide	6.8"	3.3"	3.7"	
Baffle	6.8"	3.3"	3.7"	



High Lumen Module



HDSB - Glenview Public School Gym

Catalog Number:

HC625D010//HM60525830//61MDH

Notes:



ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

Connected Solutions



WaveLinx LITE - WTK Tilemount Sensor

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- · Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- · Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- · Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- · Refer to the WaveLinx system specifications for details









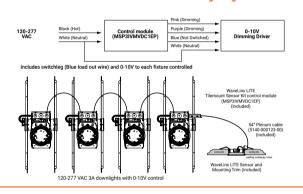








WaveLinx LITE WTK Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System



WaveLinx PRO - WTA Tilemount Sensor

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

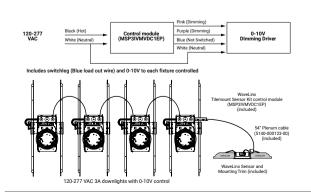
- · WaveLinx PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- · Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



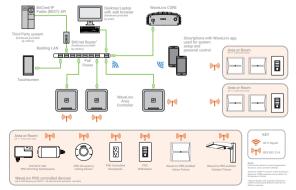
WaveLinx mobile app settings



WaveLinx WTA Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration







HDSB - Glenview Public School Gym

Catalog Number:

HC625D010//HM60525830//61MDH

Notes:



ML&C24-119319

HALO Commercial

HC6 | HM6 | 61 | 61PS

Connected Solutions



WaveLinx LITE Wireless Node - WLN

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinx system specifications for details

WaveLinx mobile app settings









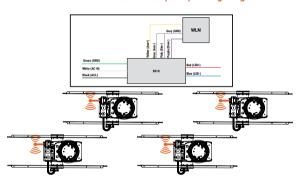








WaveLinx LITE Wireless Node (WLN) Wiring Diagram



WaveLinx LITE Bluetooth Enabled System







WaveLinx PRO Wireless Node - WPN

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- · WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



WaveLinx mobile app settings





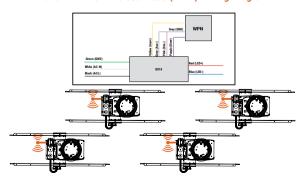




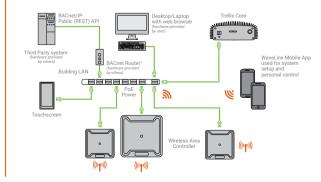




WaveLinx PRO Wireless Node (WPN) Wiring Diagram



WaveLinx CORE Building Management Integration





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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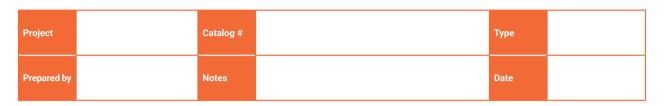
PS517016EN page 11

medgarl

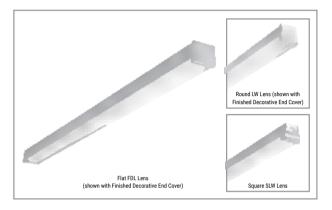
Job Name:

HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) **Catalog Number:** 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U

Type:



Notes:



Metalux

SNX Lensed

Flat, Round and Square Lens Linear LED Striplight

Typical Applications

Commercial • Cove • Warehouse/Distribution • Retail • Industrial • General Aisle or Open Areas • Utility/Storage Rooms

Interactive Menu

- Order Information page 2
- · Photometrics page 4
- Energy and Performance Data page 5
- Control Solutions page 10
- · Product Warranty

Product Certification













Top Product Features

- · Standard (SL) and High lumen/High Efficacy (HL) packages
- Three (3) CCT and Lumen selectable options available
- Up to 21,000 lumen and 174 LPW
- · General. Narrow or Wide distributions

- · Captive lens, electrical, and channel cover assembly
- · Tool-less channel cover and electrical assembly
- Options to meet Buy American and other domestic preference requirernents Reviewed

Product Features



This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent

• Decorative end cover and multiple finishes provide a polished look in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his • Integral factory installed controls option allows more energy savings or his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

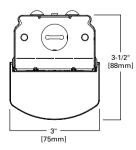
X Reviewed

Reviewed As Noted

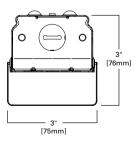
Revise and Resubmit

Dimensional Details

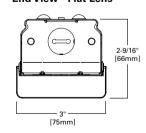
End View - Round Lens



End View - Square Lens



End View - Flat Lens



Finished Decorative End Covers

End View - Round Lens

3-1/8 [80mm]

3-5/8 [93mm]





PS51908422 page 1



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: <mark>4SNX-ŠL3-LW-UNV-CC83-CD1-U//</mark> AYC-CHAIN/SET-U Notes:

Type:

ML&C24-119319

Α

Metalux SNX Lensed

Order Information SAMPLE ORDER NUMBERS: 4SNX-48SL-LN-UNV-L835-CD1-U or 8TSNX-180HL-SLW-UNV-EL7W-L840-CD2-U

Domestic Preferences (1)		Length		Series		
[Blank]=Standard	2 =2 ft.	4 =4 ft.	8T =8 ft.	SNX=Commercial LED Striplight (2)		
BAA=Buy American Act TAA=Trade Agreements Act						

Standard Nominal Lumen Packages (3)												
2 ft		4 ft	8	ft								
SL3	SL3	60SL	SL3 (5)	114SL (5)								
19SL	20SL	63SL	40SL	120SL (5)								
23SL	22SL	67SL	44SL	126SL (5)								
25SL	26SL	74HL	52SL	134SL (5)								
30SL	31SL	81HL	62SL	148HL (5)								
40HL	33SL	84HL	66SL	162HL (5)								
44HL	37SL	87HL	74SL	168HL (5)								
47HL	41SL	90HL	82SL	174HL (5)								
	45SL	93HL	90SL	180HL (5)								
	48SL	100HL	96SL	186HL (5)								
	51SL	104HL	102SL (5)	200HL (5)								
	57SL											

SL denotes standard lumen output. HL denotes high lumen output. Additional LEDs to obtain lumen package.

SL3=Low/Med/High output (see performance table for lumen package).

Lens	Voltage (4)	Color Temp / CCT	Drive Type (7)	No.of Drivers
Round LC=Clear Lens INS_Smilf rost Lens - Wide W=Full Frost Lens - Wide Square SLW=Square / Frost Lens - Wide Elat FDL=Flat Frost / Diffuse Lens	UNV=Universal Voltage 120-277 347-347V 480-480V ®	CCT Select (9) CCR3=Switchable CCT, 90CRI 35/4/5000K CC93=Switchable CCT, 90CRI 35/4/5000K CCT/CRI L830=3000K, 80 CRI L836=3500K, 80 CRI L840=4000K, 80 CRI L840=4000K, 80 CRI L930=3000K, 90 CRI L930=3000K, 90 CRI L936=3500K, 90 CRI L940=4000K, 90 CRI L950=5000K, 90 CRI L950=5000K, 90 CRI	CD=0-10V Dimming Driver (10%-100% Dimming Driver (10%-100 Dimming Driver (1%-100% Dimming Driver (1%-100% Dimming) SD=Step-dim (Bi Level) SLTD=DALI Driver (%) LH=Lutron HiLurne (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming (26)	1=1 Driver 2=2 Drivers (5)

	Options		Knockouts	Paint Finish	Packaging
Emergency (%, (19) EL7W=7-watt 120V-277V emergency battery pack (11) EL10W=10-watt 120V-277V emergency battery pack (11) EL14W=14-watt 120V-277V emergency battery pack (11) EL14W=14-watt 120V-277V emergency battery pack (11) EL14WSD=10W emergency battery pack with self-diagnostic installed (11)(10) EL14WSD=14W emergency battery pack with self-diagnostic installed (11)(10) ETRD=Emergency Transfer Relay with dimming control (10)	Wiring (14, 119) PJ/CPI-Plug in and cross over plug in options (22) PC6/120=(NEMA_5-15P) 6 ft. Cord with NEMA Straight Plug PC6/277=(NEMA_L7-15P) 6 ft. Cord with NEMA Twist Plug C6(1)=1 Circuit, 6 ft. Cord no Plug C3(1)=1 Circuit, 3 ft. Cord no Plug	Sensor (18) [Blank]-No Sensor WIS (formerly WAB)=WaveLinx LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked (18) WPS (formerly WAA)=WaveLinx PRO Wireless Sensor, Occupancy w/ photocell, Networked (14) WLS4-WaveLinx LITE, Dimming Motion and Daylight, Bluetooth Programmable, 15 - 40' Mounting (18)(16)(18) WPS4-WaveLinx PRO, Dimming Motion and Daylight, WAC Programmable, 15 - 40' Mounting (14) ZW-SWPD3-Integrated Wavelinx Wireless Sensor, 1200 sqft. Ocverage (17), (18)(18) Sensor Location MID=Mid-row		Blank =Standard White PAF=Painted after fab. (White) BLK=PAF Black (**) GRY=PAF Gray (**)	U =Unit Pack

AYC-CHAIN/SET-U=(2) 36" Chain Hanger (Use 1 set per fixture)

AVC-CHAIN/SFT-U=1) 36" (Chain Hanger (Use 1 set per fi SCF=Fixed Sterm Set (Specify Length) (**) SCS=Swivel Stem Set (Specify Length) (**) SCA=Adjustable 48" Stem Set (**) EVF-CHAIN/SFT-B=Eye Blot Chain (Use 1 set per fixture) WG-SNX/SN-2FT-B=2 ft Wire Guard

WG-SNX/SN-4FT-R=4 ft Wire Guard

WG-SKN/SN-4F-IB=4 ft Wire Guard
A-1-B/SPACER-B-Spacer 1-1/2" to 2-1/2" from ceiling (Use 2 per fixture) (19)
TOGGLE-Single Toggle No. 2 (Specify Length) (19)
Y-Toggle-10-2PK-(2) Y-Toggle Cable Kits at 10FT long
GRP-SNF-10-Gripper Hanger
CLC-SNLED-EXT-B-SN/SNX Long Row Aligner Extension

ISHH-01=Integrated SVPDx Sensor Programming Remote

Round Replacement Lenses SNX-LENS-LW-2FT-U= Replacement Lens 2 ft, Full Frost SNX-LENS-LN-2FT-U= Replacement Lens 2 ft, Semi Frost

Replacement Lens 2 ft, Semi Frost SNX-LENS-LC-2FT-U= Replacement Lens 2 ft, Clear SNX-LENS-LW-4FT-U= Replacement Lens 4 ft, Full Frost SNX-LENS-LN-4FT-U= Replacement Lens 4 ft, Semi Frost SNX-LENS-LC-4FT-U

Square Replacement Lenses SNX-SQLENS-SLW-2FT-U= Replacement Lens 2 ft, Full Frost Flat Replacement Lenses SNX-Flat Lens-FDL-2FT-U= Replacement Lens 2 ft, Full Frost SNX-Flat Lens-FDL-4FT-U= SNX-SOLENS-SLW-4FT-U= Replacement Lens 4 ft, Full Frost

Finished End Cover (20)
DECOEND-RND PK=(2) Full end caps, SNX w/ Round Lens
DECOEND-FDL PK=(2) Full end caps, SNX w/ Flat FDL Lens Replacement Lens 4 ft. Full Frost DECOEND-SLW PK=(2) Full end caps, SNX w/ Square Lens

Notes: (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively, Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. (2) Designulphis Consortium® Qualified and classified for both DLC Standard and DLC Prennium, refer to www.designiliphis.org for details. (3) Nominal lumen values. See table for value and fixture length, (4) 347/480/ max ambient term pd. (5). Requires two drivers. (6). BL3 must be ordered in conjunction w/CCT Select. C833 or 39 default setting is a 4000K and Medium output. (7) 2ft with Sensor limited to CD and HCD drivers only. (8) For a complete listing of Fifth Light products, visit www.cooperlighting.com (9) 4 ft and 8 ft only. (10) When ordering sensor or EBP option, specify UNIV (for 120 or 277V), 347 or 480V. (11) Factory installed with integral test switch/indicator. For approximate deviewed lumens multiply the lumens per want of the desired future by the wattage of the emergency battery pack (100 Im/NP C70 Immens). IES-format photometry for luminair under emergency operation available, (12) EL10WSD and EL41WSD not available with 347V. (13) Used to typass local control during ordage. Must be used in conjunction with U. 1008 device (provided by others). GTR2 include 2 relays on futures with dimming dTR2. (14) Constant letch support on numerous opinions for this feature. (15) Most common or 277V when ordering GTR2. (14) Constant letch support on numerous opinions for this feature. (15) Most common ordage is 200 or 277V with end ordering GTR2. (14) Constant letch support or managements. Consult fracting all difference requirements. C

Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx system pages for additional details and compatibility. (B) Consult WaveLinx Lite system pages for additional details and compatibility.

Stock is available in the following catalog numbers:

Catalog Number	Description	Replaces Up To	Selectable CCT	Voltage	Selectable Lumens	Watts	UPC	DLC Product ID
4SNX-SL3-LW-UNV-CC83-CD1-U	4' Single Lens	2-T8 32W, 1-T5HO 54W	3500K-5000K	120-277V	2000-6100	17/33/51	080083265107	S-VF0RKS
8TSNX-SL3-LW-UNV-CC83-CD2-U	8' Single Lens	4-T8 32W, 2-T12 75W	3500K-5000K	120-277V	4100-12000	34/67/101	080083265114	S-7FC8RS





HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes: Type:

ML&C24-119319

Metalux SNX Lensed

Product Specifications

Construction

- · Die-formed cold rolled steel channel and cover
- Convertible end plate for continuous row alignment
- Tool-less channel/wireway cover and captive electrical assembly
- · Groove for Tong Hanger
- Surface, pendant or stem mount capable. See available mounting options.

Controls

- Standard with 0-10V dimming driver (10% standard, 1% optional)
- Integrated WaveLinx sensor options provide wireless individual fixture control and enable code compliance, increased energy savings, grouping of fixtures, and connection to WaveLinx control systems
- DALI 2.0 and step-dimming available
- For motion control, reference sensor locations for both end and middle of the row applications

Emergency Battery Pack Option

- Optional 120V-277V integral emergency battery pack available in 7W or 14W
- 90-minute backup period for code compliance
- · Generator transfer options available

Electrical

- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K or 5000K with CRI of 80 standard or optional 90 CRI
- Three CCT select option available for 80 or 90CRI in warm to cool color temps, see ordering logic
- Lumen select option available in full, medium or low brightness, see performance table and ordering logic
- Electronic drivers available for 120-277V, 347V and 480 applications
- Operating temperature of -20°C to 50°C
- Default CCT/Lumen setting is 4000K and Med Power

Finish

- Standard baked white enamel finish with multistage, iron phosphate pretreatment. Baked white enamel finish is standard
- · PAF option for added rust protection
- Other paint finishes available: Black (BLK) and GRAY (GR)

Shielding

- · Offered with acrylic lens and molded lens cap
- Flat lens with LED diffuse blend (FDL) for general distribution is recommended option
- Round lens offered in three distributions: Clear with linear ribs (LC), semi-frost for narrow distribution, and frost for wide distribution (LW)
- Square frost lens option for wide distribution (SLW) is available

Compliance

- · cULus Listed for damp locations
- RoHS compliant
- Complies with IESNA LM-79 and LM-80 standards
- NEMA 410 compliant (drivers)
- · State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium (refer to www.designlights.org)
- Suitable for closet use when installed to NEC 410.16 spacings standards

Limited Warranty

· Five year limited warranty

Captive Light Channel Assembly

- · Tool-less removal for easy install
- · Captive lens secured in place
- Independent class 2 LED sub-assembly



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes:

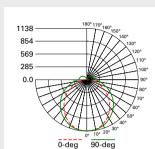
Type:

ML&C24-119319

Metalux SNX Lensed

Photometric Data





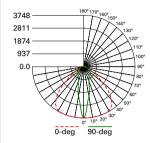
4SNX-41SL-LW-UNV-L850-CD1-U

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.23 x mounting height, (1) 1.31 x mounting height

Lumens: 4027 Input Watts: 26.3W Efficacy: 153 LPW

Test Report: 4SNX-41SL-LW-UNV-L850-CD.IES



4SNX-41SL-LC-UNV-L850-CD1-U

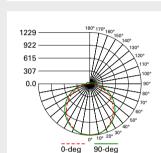
Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.45 x mounting height, (⊥) 0.43 x mounting height

Lumens: 4557 Input Watts: 26.3W Efficacy: 173 LPW

Test Report: 4SNX-41SL-LC-UNV-L850-CD.IES



4SNX-41SL-FDL-UNV-L850-CD1-U

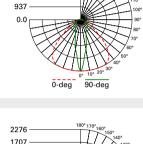
Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.24 x mounting height, (⊥) 1.28 x mounting height

Lumens: 3877 Input Watts: 26.3W Efficacy: 147 LPW

Test Report: 4SNX-41SL-FDL-UNV-



1138

569

8TSNX-82SL-LW-UNV-L850-CD1-U

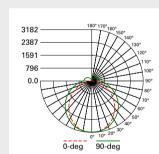
Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.23 x mounting height, (\perp) 1.31 x mounting height

Lumens: 8053 Input Watts: 52.6W

Efficacy: 153 LPW Test Report: 8SNX-82SL-LW-UNV-L850-CD.IES



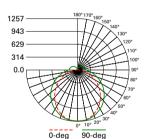
8TSNX-104SL-LW-UNV-L850-CD1-U

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.23 x mounting height, (\bot) 1.31 x mounting height Lumens: 11260

Input Watts: 79.4W Efficacy: 142 LPW

Test Report: 8SNX-104SL-LW-UNV-L850-CD.IES



90-deg

2SNX-47HL-LW-UNV-L850-CD1-U

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.24 x mounting height, (\perp) 1.28 x mounting height

Lumens: 4494 Input Watts: 33.7W Efficacy: 133 LPW

Test Report: 2SNX-47HL-LW-UNV-

L850-CD.IES

Additional Data

CCT Table

Approximate Color Temperature Multiplier							
2700K	.93						
3000K	.98						
3500K	1.0						
4000K	1.02						
5000K	1.02						

Shipping Data

Length	Wt.
2 ft.	4.3 lbs.
4 ft.	8.2 lbs.
8 ft.	15.1 lbs.

CRI

Lumen multiplier (80CRI to 90CRI)									
3000K	3500K	4000K	5000K						
0.805	0.840	0.846	0.901						

Lumen Maintenance

Product Model (1)	Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L90 (Hours)	Theoretical L70 (Hours)	
SNX-SL	25C	89	53,000	175,000	
	40C and higher	89	49,000	163,000	
SNX-HL	25C	89	55,000	180,000	
	40C and higher	87	46,000	155,000	

Notes: (1) 4ft and 8ft TM-21 data are equivalent.



A

ML&C24-119319

Metalux **SNX Lensed**

Energy and Performance Data - Fixed Output

	nen Kage		De	Wattage	Efficacy Im/W							
2	ft	LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
19	SL	2006	1939	1773	1755	1707	12.0	167.2	161.6	147.8	146.3	142.3
23	SL	2429	2347	2146	2124	2066	14.9	163.0	157.5	144.0	142.6	138.7
25	SL	2718	2626	2401	2377	2312	17.5	155.3	150.1	137.2	135.8	132.1
30	SL	3204	3096	2831	2802	2726	21.0	152.6	147.4	134.8	133.4	129.8
40	HL	4347	4200	3727	3689	3725	27.6	157.5	152.2	135.0	133.7	135.0
44	HL	4683	4525	4015	3975	4013	31.1	150.6	145.5	129.1	127.8	129.0
47	HL	5009	4840	4295	4251	4292	33.7	148.6	143.6	127.4	126.1	127.4

	nen Kage		De	livered Lum	ens		Wattage	Efficacy Im/W				
4	ft	LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
20	SL	2100	2029	1855	1836	1786	12.1	173.6	167.7	153.3	151.7	147.6
22	SL	2391	2311	2113	2091	2034	13.8	173.3	167.5	153.1	151.5	147.4
26	SL	2823	2728	2494	2469	2401	16.4	172.1	166.3	152.1	150.5	146.4
31	SL	3318	3206	2932	2902	2823	19.5	170.2	164.4	150.4	148.8	144.8
33	SL	3563	3443	3148	3116	3031	21.1	168.9	163.2	149.2	147.7	143.6
37	SL	4013	3877	3545	3509	3413	24.0	167.2	161.5	147.7	146.2	142.2
41	SL	4356	4209	3848	3809	3705	26.3	165.6	160.0	146.3	144.8	140.9
45	SL	4857	4693	4292	4248	4132	29.8	163.0	157.5	144.0	142.6	138.7
48	SL	5191	5015	4586	4540	4416	32.1	161.7	156.2	142.9	141.4	137.6
51	SL	5435	5252	4803	4754	4624	35.0	155.3	150.1	137.2	135.8	132.1
57	SL	6090	5884	5381	5326	5181	39.7	153.4	148.2	135.5	134.2	130.5
60	SL	6408	6192	5662	5605	5452	42.0	152.6	147.4	134.8	133.5	129.8
63	SL	6727	6500	5944	5883	5723	44.4	151.5	146.4	133.9	132.5	128.9
67	SL	7191	6948	6354	6289	6117	47.9	150.1	145.1	132.7	131.3	127.7
74	HL	8015	7745	6873	6803	6869	51.8	154.7	149.5	132.7	131.3	132.6
81	HL	8693	8400	7454	7378	7450	55.1	157.8	152.5	135.3	133.9	135.2
84	HL	9084	8777	7789	7710	7785	57.9	156.9	151.6	134.5	133.2	134.5
87	HL	9366	9050	8031	7949	8026	62.2	150.6	145.5	129.1	127.8	129.0
90	HL	9701	9373	8318	8233	8313	64.4	150.6	145.5	129.2	127.8	129.1
93	HL	10018	9680	8590	8502	8585	67.4	148.6	143.6	127.4	126.1	127.4
100	HL	10765	10402	9231	9137	9226	72.5	148.5	143.5	127.3	126.0	127.3
104	HL	11162	10786	9571	9474	9566	75.5	147.8	142.9	126.8	125.5	126.7





Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes:

Type:

ML&C24-119319

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Metalux **SNX Lensed**

Energy and Performance Data - Fixed Output

	Lumen Package			livered Lume	ens		Wattage	Efficacy Im/W				
8	ft	LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
40	SL	4200	4058	3711	3673	3573	24.2	173.6	167.7	153.3	151.8	147.6
44	SL	4782	4621	4226	4183	4068	27.6	173.3	167.4	153.1	151.6	147.4
52	SL	5646	5455	4989	4938	4803	32.8	172.1	166.3	152.1	150.5	146.4
62	SL	6637	6413	5864	5805	5646	39.0	170.2	164.4	150.4	148.8	144.8
66	SL	7126	6885	6296	6232	6062	42.2	168.9	163.2	149.2	147.7	143.6
74	SL	8025	7754	7091	7019	6827	48.0	167.2	161.5	147.7	146.2	142.2
82	SL	8711	8417	7697	7619	7410	52.6	165.6	160.0	146.3	144.8	140.9
90	SL	9714	9386	8583	8496	8264	59.6	163.0	157.5	144.0	142.6	138.7
96	SL	10381	10031	9173	9079	8831	64.2	161.7	156.2	142.9	141.4	137.6
102	SL	10871	10504	9605	9507	9248	70.0	155.3	150.1	137.2	135.8	132.1
114	SL	12180	11769	10762	10652	10361	79.4	153.4	148.2	135.5	134.2	130.5
120	SL	12817	12384	11325	11209	10903	84.0	152.6	147.4	134.8	133.4	129.8
126	SL	13454	13000	11888	11767	11445	88.8	151.5	146.4	133.9	132.5	128.9
134	SL	14382	13897	12708	12578	12235	95.8	150.1	145.1	132.7	131.3	127.7
148	HL	16031	15490	13746	13606	13738	103.6	154.7	149.5	132.7	131.3	132.6
162	HL	17386	16800	14908	14757	14900	110.2	157.8	152.5	135.3	133.9	135.2
168	HL	18168	17555	15579	15420	15570	115.8	156.9	151.6	134.5	133.2	134.5
174	HL	18731	18099	16062	15898	16053	124.4	150.6	145.5	129.1	127.8	129.0
180	HL	19401	18747	16636	16467	16627	128.8	150.6	145.6	129.2	127.8	129.1
186	HL	20035	19359	17179	17005	17170	134.8	148.6	143.6	127.4	126.1	127.4
200	HL	21531	20804	18462	18274	18452	145.0	148.5	143.5	127.3	126.0	127.3

Energy and Performance Data - Selectable Output

Default CCT/Lumen Setting: 4000K / Med Power

1			Lumen Select	De	livered Lume	ens		Wattage		E	Efficacy Im/V	ı	
Lens Type	CRI	Length	CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K	
			Low	1026	1066	1099	6.9	6.6	6.7	148.7	161.5	164.0	
		2 ft.	Med	1990	2198	2133	13.9	13.3	13.2	143.2	165.3	161.6	
			High	3016	3232	3331	21	20	20.2	143.6	161.6	164.9	
			Low	2275	2405	2270	16.7	16.1	16.9	136.2	149.4	134.3	
	80	4 ft.	Med	4665	4551	4800	33.5	32.3	33.7	139.3	140.9	142.4	
			High	6957	7289	6880	50.7	48.9	51.1	137.2	149.1	134.6	
		8 ft.		Low	4453	4693	4655	33.5	32.3	33.7	132.9	145.3	138.1
			Med	9383	8909	9364	66.9	64.5	67.5	140.3	138.1	138.7	
1.0			High	14575	14220	13468	101.4	97.8	102.2	143.7	145.4	131.8	
LC		2 ft.	Low	842	903	904	6.9	6.6	6.7	122.0	136.8	134.9	
			Med	1737	1805	1809	13.9	13.3	13.2	125.0	135.7	137.0	
			High	2553	2819	2825	21	20.2	20.2	121.6	139.6	139.9	
			Low	1944	2036	1926	16.7	16.1	16.9	116.4	126.5	114.0	
	90	4 ft.	Med	3949	3852	4072	33.5	32.3	33.7	117.9	119.3	120.8	
			High	5889	6169	5836	50.7	48.9	51.1	116.2	126.2	114.2	
			Low	3770	3972	3949	33.5	32.3	33.7	112.5	123.0	117.2	
		8 ft.	Med	7704	7540	7943	66.9	64.5	67.5	115.2	116.9	117.7	
			High	12338	12035	11425	101.4	97.8	102.2	121.7	123.1	111.8	



Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes:

Type:

ML&C24-119319

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Metalux **SNX Lensed**

Energy and Performance Data - Selectable Output

			Lumen Select	De	livered Lume	ens		Wattage		E	Efficacy Im/V	ı	
Lens Type	CRI	Length	CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K	
			Low	991	1030	1062	6.9	6.6	6.7	143.6	156.1	158.5	
		2 ft.	Med	1983	2124	2061	13.9	13.3	13.2	142.7	159.7	156.1	
			High	2914	3122	3218	21	20	20.2	138.8	156.1	159.3	
			Low	2218	2324	2194	16.7	16.1	16.9	132.8	144.3	129.8	
	80	4 ft.	Med	4508	4398	4638	33.5	32.3	33.7	134.6	136.2	137.6	
			High	6722	7043	6648	50.7	48.9	51.1	132.6	144.0	130.1	
		8 ft.		Low	4647	4534	4498	33.5	32.3	33.7	138.7	140.4	133.5
			Med	8793	8608	9048	66.9	64.5	67.5	131.4	133.5	134.0	
LN			High	14083	13740	13013	101.4	97.8	102.2	138.9	140.5	127.3	
LIN		2 ft.	Low	814	899	874	6.9	6.7	6.7	118.0	134.2	130.4	
			Med	1679	1744	1748	13.9	13.3	13.2	120.8	131.1	132.4	
			High	2467	2724	2730	21	20.2	20.2	117.5	134.9	135.1	
			Low	1878	1967	1861	16.7	16.1	16.9	112.5	122.2	110.1	
	90	4 ft.	Med	3816	3722	3934	33.5	32.3	33.7	113.9	115.2	116.7	
			High	5691	5782	5639	50.7	48.9	51.1	112.2	118.2	110.4	
			Low	3934	3838	3816	33.5	32.3	33.7	117.4	118.8	113.2	
		8 ft.	Med	7444	7286	7675	66.9	64.5	67.5	111.3	113.0	113.7	
			High	11922	11629	11039	101.4	97.8	102.2	117.6	118.9	108.0	

1			Lumen Select	De	livered Lume	ens		Wattage			Efficacy Im/W	,
Lens Type	CRI	Length	CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
			Low	907	914	971	6.9	6.6	6.7	131.4	138.5	144.9
		2 ft.	Med	1813	1942	1829	13.9	13.3	13.2	130.4	146.0	138.6
			High	2586	2771	2943	21	20	20.2	123.1	138.6	145.7
			Low	2028	2125	1947	16.7	16.1	16.9	121.4	132.0	115.2
	80	4 ft.	Med	4000	4058	4241	33.5	32.3	33.7	119.4	125.6	125.8
			High	6147	6062	5900	50.7	48.9	51.1	121.2	124.0	115.5
		8 ft.	Low	4250	4146	4137	33.5	32.3	33.7	126.9	128.4	122.8
			Med	7803	7639	8273	66.9	64.5	67.5	116.6	118.4	122.6
LW			High	12878	11826	11548	101.4	97.8	102.2	127.0	120.9	113.0
LVV		2 ft.	Low	722	822	824	6.9	6.7	6.6	104.6	122.7	124.8
			Med	1535	1547	1551	13.9	13.3	13.2	110.4	116.3	117.5
			High	2189	2491	2497	21	20.2	20.2	104.2	123.3	123.6
			Low	1717	1799	1652	16.7	16.1	16.9	102.8	111.7	97.8
	90	4 ft.	Med	3386	3434	3598	33.5	32.3	33.7	101.1	106.3	106.8
			High	5204	5131	5005	50.7	48.9	51.1	102.6	104.9	97.9
			Low	3598	3509	3509	33.5	32.3	33.7	107.4	108.6	104.1
		8 ft.	Med	6606	7195	7018	66.9	64.5	67.5	98.7	111.6	104.0
			High	10902	10009	9796	101.4	97.8	102.2	107.5	102.3	95.9



Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes:

Type:

A ML&C24-119319

Metalux **SNX Lensed**

Energy and Performance Data - Selectable Output

1			Lumen Select	De	livered Lume	ens		Wattage			Efficacy	
Lens Type	CRI	Length	CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
			Low	845	905	905	6.9	6.6	6.7	122.5	137.1	135.1
		2 ft.	Med	1795	1923	1810	13.9	13.3	13.2	129.1	144.6	137.1
			High	2560	2743	2913	21	20	20.2	121.9	137.2	144.2
			Low	2008	1980	1927	16.7	16.1	16.9	120.2	123.0	114.0
	80	4 ft.	Med	3959	4017	4198	33.5	32.3	33.7	118.2	124.4	124.6
			High	6084	6000	5840	50.7	48.9	51.1	120.0	122.7	114.3
		8 ft.	Low	4206	4104	4095	33.5	32.3	33.7	125.6	127.1	121.5
			Med	7724	8415	8189	66.9	64.5	67.5	115.5	130.5	121.3
SLW			High	12747	11706	11431	101.4	97.8	102.2	125.7	119.7	111.8
SLW		2 ft.	Low	715	814	816	6.9	6.7	6.6	103.6	121.5	123.6
			Med	1519	1532	1536	13.9	13.3	13.2	109.3	115.2	116.4
			High	2167	2465	2326	21	20.2	20.2	103.2	122.0	115.1
			Low	1700	1676	1635	16.7	16.1	16.9	101.8	104.1	96.7
	90	4 ft.	Med	3352	3400	3561	33.5	32.3	33.7	100.1	105.3	105.7
			High	5151	5079	5151	50.7	48.9	51.1	101.6	103.9	100.8
			Low	3561	3269	3473	33.5	32.3	33.7	106.3	101.2	103.1
		8 ft.	Med	6539	7122	6947	66.9	64.5	67.5	97.7	110.4	102.9
			High	10791	9907	9697	101.4	97.8	102.2	106.4	101.3	94.9

1			Lumen Select	De	livered Lume	ens		Wattage			Efficacy	
Lens Type	CRI	Length	CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
			Low	853	914	914	6.9	6.6	6.7	123.6	138.5	136.4
		2 ft.	Med	1746	1870	1828	13.9	13.3	13.2	125.6	140.6	138.5
			High	2584	2833	2833	21	20.2	20.2	123.0	140.2	140.2
			Low	1953	1999	1946	16.7	16.1	16.9	116.9	124.2	115.1
	80	4 ft.	Med	3998	3907	4083	33.5	32.3	33.7	119.3	121.0	121.2
			High	5918	6059	5906	50.7	48.9	51.1	116.7	123.9	115.6
		8 ft.	Low	4092	3900	3892	33.5	32.3	33.7	122.1	120.7	115.5
			Med	7799	8185	7966	66.9	64.5	67.5	116.6	126.9	118.0
FDL			High	12399	11820	12373	101.4	97.8	102.2	122.3	120.9	121.1
FUL		2 ft.	Low	722	791	793	6.9	6.7	6.6	104.6	118.1	120.2
			Med	1478	1547	1586	13.9	13.3	13.3	106.3	116.3	119.2
			High	2188	2398	2349	21	20.2	20.2	104.2	118.7	116.3
			Low	1653	1692	1651	16.7	16.1	16.9	99.0	105.1	97.7
	90	4 ft.	Med	3384	3307	3384	33.5	32.3	33.7	101.0	102.4	100.4
			High	5010	5128	5010	50.7	48.9	51.1	98.8	104.9	98.0
			Low	3464	3301	3301	33.5	32.3	33.7	103.4	102.2	98.0
		8 ft.	Med	6602	6927	6757	66.9	64.5	67.5	98.7	107.4	100.1
			High	10496	10004	10496	101.4	97.8	102.2	103.5	102.3	102.7





HDSB - Glenview Public School Gym

Catalog Number: 4SNX-SL3-LW-UNV-CC83-CD1-U// AYC-CHAIN/SET-U Notes:

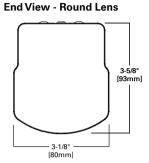
Type:

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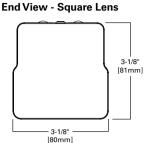
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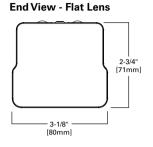
Metalux SNX Lensed

Finished Decorative End Covers

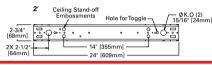


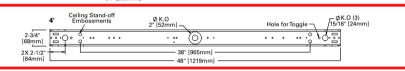


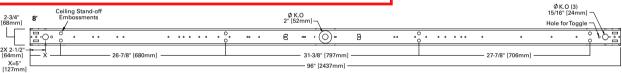




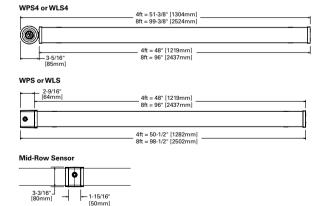
Dimensional and Mounting Details







Fixture Size with Sensor



Options













Accessories









HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) **Catalog Number:** <mark>4SNX-ŠL3-LW-UNV-CC83-CD1-U//</mark> AYC-CHAIN/SET-U Notes:

Type:

ML&C24-119319

Α

Metalux **SNX Lensed**



- · WaveLinx LITE wireless
- · WaveLinx PRO wireless

Integrated Sensor Coverage Pattern

- · WaveLinx CAT wired
- · WaveLinx Wired

WaveLinx PRO/LITE Sensor - WLS and WPS

4.5m _ (15FT)

4.5m _ (15FT)



The SNX with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions



WaveLinx PRO is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinx PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinx CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinx PRO offers a rich portfolio of wireless devices, WaveLinx PRO-enabled luminaires, and an intuitive WaveLinx mobile app for office, education, warehouse, and parking garage applications.



WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

With Integrated WaveLinx Sensor



Option

WLS

WPS



Level Lighting

Control (LLLC)

Χ

Х

Add a hidden WaveLinx senso node (WPN, WLN) to your space lighting design!

Allows to:

Automatic

Dimming

Photocell

Х

Χ

Technician

- · Keeps luminaire aesthetics
- · Connect fixtures without the realestate to include sensor option such as downlights
- · Connect sealed fixtures without a standard sensor option such as products for clinical space.

Occupancy

Sensing

Χ

Χ

CCT

Control

Note: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

SIDE VIEW

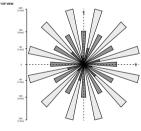
Om (nft)

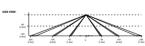
4.5m (15F

4.5m (15FT)

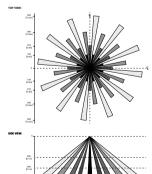
2.25m (7.5FT) Om (Oft)

WaveLinx PRO/LITE Sensor - WLS2 and WPS2





WaveLinx PRO/LITE Sensor - WLS4 and WPS4



Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

Out of the Box

Functionality

Χ





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 vw.cooperlighting.com

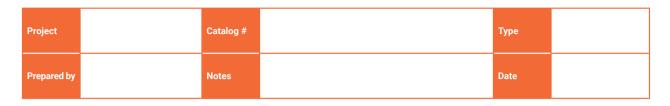
Configuration

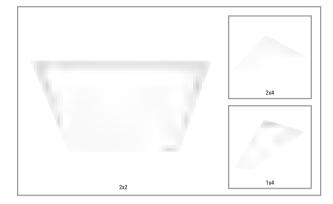
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Installe

Specifications and dimensions subject to change without notice.

Technician / IT





Metalux

CGTS NUV Selectable Lumens and CCT with 120-347V Driver - 2x4/2x2/1x4

LED Backlit Panel
Canada Market Only

Typical ApplicationsOffices • Education • Healthcare • Retail

Interactive Menu

- Order Information page 2
- · Photometric Data page 4
- Product Warranty

Product Certification











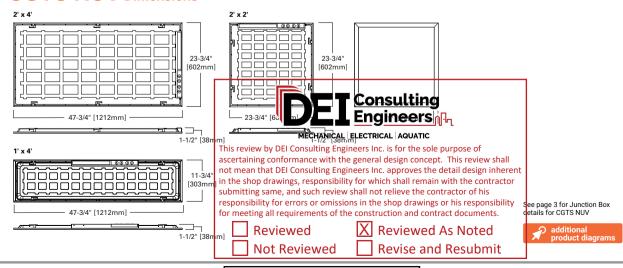


For Canadian Market Only

Top Product Features

- · CGTS NUV steel housing is post-painted to increase efficacy, facilitate installation, and inhibit corrosion
- · CGTS NUV acrylic micro-optics provide uniform illumination across the entire lens
- CGTS NUV extruded aluminum door frame tightly seals to the housing for optimal performance and aesthetics.
 Minimum fixture height ideal for shallow plenum.
- · CGTS NUV has three color temperature and three lumen package choices for use in a variety of applications
- · CGTS NUV selectable switches located on the side of the junction box, for quick and easy adjustment
- NUV 120 347V driver with 0-10V dimming, 10% standard

CGTS NUV Dimensions





Note: Set to low lumen Setting.

PS51903621 **page 1**



Catalog Number: 14CGTS-NUV

Notes:

Type:

B

ML&C24-119319

Metalux **CGTS NUV**



CGTS NUV Ordering Information/Performance Default CCT/Lumen Setting: 5000K/High

Size	Catalog	UPC	Lumen Setting	сст	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)
				3500	85	3513	30.5	115
			Low	4000	86	3735	28.8	130
				5000	85	3617	31.0	117
				3500	85	3934	35.4	111
1x4	14CGTS-NUV	80083247806	Medium	4000	86	4232	33.2	128
				5000	85	4067	35.9	113
				3500	85	4342	40.3	108
			High	4000	86	4712	37.6	125
				5000	85	4486	41.0	109
				3500	85	3515	30.2	117
		80083247837	Low	4000	86	3732	28.7	130
			Medium	5000	85	3625	30.5	119
				3500	85	3953	34.9	113
2x2	22CGTS-NUV			4000	86	4228	33.0	128
				5000	85	4060	35.3	115
				3500	85	4361	39.8	110
			High	4000	86	4676	37.5	125
				5000	85	4462	40.3	111
				3500	85	4182	35.0	120
			Low	4000	86	4352	33.6	130
				5000	85	4333	35.1	124
				3500	85	4612	39.4	117
2x4	24CGTS-NUV	80083247851	Medium	4000	86	4787	37.4	128
				5000	85	4753	39.2	121
				3500	85	5633	50.1	113
			High	4000	86	5962	47.6	125
				5000	85	5898	50.3	117

CGTS NUV Shipping Data

	1x4	2x2	2x4
Weight (lb.)	4.7	4.4	8.8
Pallet Qty	75	50	25
Pallet Size (in.)	49x53	30x53	30x53

CGTS NUV Options

Catalog	Description	Example	Notes
A3/8-4/18GDIM	6' Length, 3/8" Cable, 2 Wire, 2 Dimming Leads, Ground	24CGTS-NUV-A3/8-4/18G DIM	





Catalog Number: 14CGTS-NUV

Notes:

Type:

B

ML&C24-119319

Metalux **CGTS NUV**

CGTS NUV Accessories

Surface Mounting Options (1)

Catalog No.	Description	UPC					
CGTSNUV-SURF24	2x4 CGTS NUV Surface Mount Kit	080083248346					
CGTSNUV-SURF22	2x2 CGTS NUV Surface Mount Kit	080083248322					
CGTSNUV-SURF14	1x4 CGTS NUV Surface Mount Kit	080083248308					
Note: (1) Cannot be used with FL7W or FL14W ontions							

Drywall Frame Kit

Catalog No.	Description	UPC
DF-24W-U	2x4 dry wall frame kit	662401232970
DF-22W-U	2x2 dry wall frame kit	662401232963
DF-14W-U	1x4 dry wall frame kit	662401232949

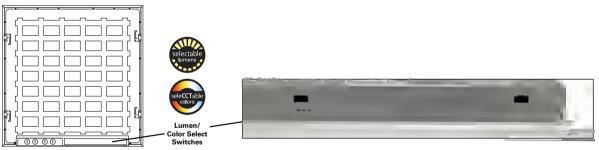
Suspension Kit

Catalog	UPC	Description
FPSUS2-ML	080083277469	2 point Y-hanger suspension kit includes aircraft cable, carabiner, ceiling connection, SO cord, cord connectors and round 4" J-box cover plate
Mounting height : Min.=7-1/4" [1848 Max.=27" [286mr	mm]	

24" [610mm] 2-3/4"-**-**[70mm] · 16-11/16" [425mm] -4-ø4.5 22-7/16" [570mm] 24" [610mm] 2x2 Shown

CGTS NUV Driver Enclosure / Junction Box

Top View (2' x 2')



Default CCT/Lumen Setting: 5000K/High



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: 14CGTS-NUV

Notes:

Type:

B

ML&C24-119319

Metalux CGTS NUV

CGTS NUV Product Specifications

Construction

- Die-formed steel back plate is post-painted to ensure durability
- · Housing is constructed absent of holes
- Aluminum door frame miter cut, and mechanically fastened for a precision fit
- Frame weld and ground, for a seamless appearance

Mounting

- Integral grid clips secure fixture to the ceiling structure
- Accessory CGT EQ clips available to mechanically fasten the clips to the fixture, and the fixture to the ceiling system
- Junction box constructed of code gauge galvanized steel with access plate
- Multiple 7/8" KO's provided, suitable for up to 12AWG wiring
- Surface and suspension kits available for use in grid or hard surfaces. Please note that the Suspension kit will be available in early 2023.
- Factory installed flexible cable with dimming leads available

Control

- NUV 120-347V driver with 0-10V dimming, 10% standard
- Can be used with tile mounted sensor or other remote mount controls
- Selectable driver for three color temperature choices and three lumen package choices

Electrical

- CGTS NUV projected lumen maintenance based on TM21 testing standards is >L82 @60,000 hours
- Driver rated for FCC part 15 Class B for use in residential or commercial applications
- LEDs are 85 CRI (minimum) and switch to 3500K, 4000K, and 5000K

Ontical Chiefdina

- Acrylic micro-optics enable uniform distribution of LEDs for uniform lens illumination
- Smooth, frosted lens delivers uniform illumination across the entire lens
- Durable lens with surface texture to minimize scratch and impact damage

Certifications

- cULus listed for 25C ambient environments, indoor applications
- · UL damp location listed
- · IC rated for direct insulation contact
- IESNA LM-79 and LM-80 standards compliant
- Qualifies as State of California Title 24 high efficiency luminaire
- FCC part 15 class B (residential) compliant
- DesignLights Consortium® Qualified and classified for DLC standard. Refer to the DLC Qualified Products list at www.designlights.org/QPL to confirm which versions are qualified
- Meets IP5X rating from the room side with no modification needed

Warranty

- · Five year standard warranty
- · Extended ten year warranty available





HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: 14CGTS-NUV

Notes:

Type:

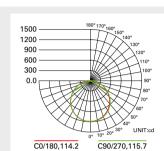
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ML&C24-119319

Metalux **CGTS NUV**

Photometric Data





14CGTS-NUV-3035C

Electronic Driver

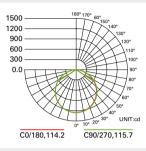
Linear LED 3500K

Spacing criterion: (II) 1.28 x mounting height, (⊥) 1.28 x mounting height

Lumens: 3529 Input Watts: 30W Efficacy: 119.8 LPW

Test Report: 14CGTS-NUV-3035C.IES





14CGTS-NUV-3040C

Electronic Driver

Linear LED 4000K

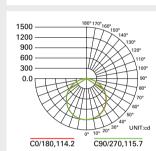
Spacing criterion: (II) 1.28 x mounting height, (\perp) 1.28 x mounting height

Lumens: 3716 Input Watts: 30W Efficacy: 132.1 LPW

Test Report: 14CGTS-NUV-3040C.IES







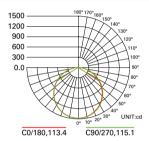
14CGTS-NUV-3050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.28 x mounting height

Lumens: 3568 Innut Watts: 30W Efficacy: 121.8 LPW Test Report: 14CGTS-NUV-3050C.IES





22CGTS-NUV-4035C

Electronic Driver Linear LED 3500K

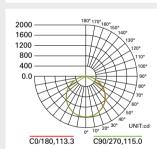
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.28 x mounting height

Lumens: 4320 Input Watts: 40W Efficacy: 113.3 LPW

Test Report: 22CGTS-NUV-4035C.IES







22CGTS-NUV-4040C

Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height

Lumens: 4615 Input Watts: 40W Efficacy: 126.5 LPW Test Report: 22CGTS-NUV-4040C.IES



2000 1600 1200 800 400 0.0 C0/180 113 0 C90/270.115.0

22CGTS-NUV-4050C

Electronic Driver Linear LED 5000K

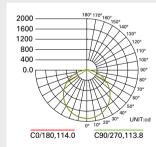
Spacing criterion: (II) 1.26 x mounting height, (1) 1.27 x mounting height

Lumens: 4386 Input Watts: 40W Efficacy: 114.7 LPW

Test Report: 22CGTS-NUV-4050C.IES







24CGTS-NUV-5035C

Electronic Driver Linear LED 3500K

Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.27 x mounting height

Lumens: 5483 Input Watts: 50W Efficacy: 110.1 LPW Test Report: 24CGTS-NUV-5035C.IES



1600 1200 800 400 C0/180,114.1 C90/270.113.9

2000

24CGTS-NUV-5040C

Electronic Driver Linear LED 4000K

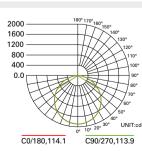
Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height

Lumens: 5664 Input Watts: 50W Efficacy: 119.5 LPW

Test Report: 24CGTS-NUV-5040C.IES







24CGTS-NUV-5050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (\bot) 1.27 x mounting height Lumens: 5469

Input Watts: 50W Efficacy: 111.3 LPW Test Report: 24CGTS-NUV-5050C.IES







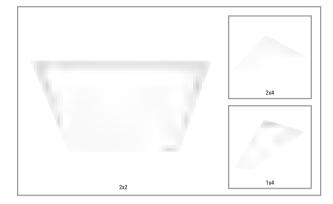
HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) **Catalog Number:** 14CGTS-NUV//DF-14W-U

Notes:

Type:

B1





Metalux

CGTS NUV Selectable Lumens and CCT with 120-347V Driver - 2x4/2x2/1x4

LED Backlit Panel Canada Market Only

Typical Applications Offices • Education • Healthcare • Retail

Interactive Menu

- Order Information page 2
- · Photometric Data page 4
- Product Warranty

Product Certification











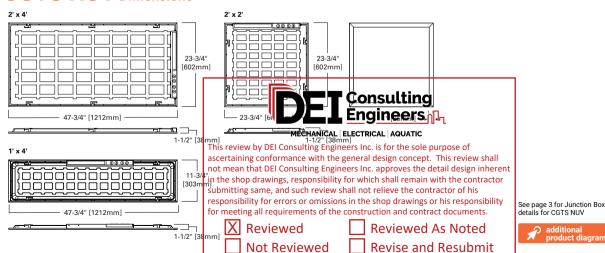


For Canadian Market Only

Top Product Features

- · CGTS NUV steel housing is post-painted to increase efficacy, facilitate installation, and inhibit corrosion
- · CGTS NUV acrylic micro-optics provide uniform illumination across the entire lens
- CGTS NUV extruded aluminum door frame tightly seals to the housing for optimal performance and aesthetics. Minimum fixture height ideal for shallow plenum.
- · CGTS NUV has three color temperature and three lumen package choices for use in a variety of applications
- · CGTS NUV selectable switches located on the side of the junction box, for quick and easy adjustment
- NUV 120 347V driver with 0-10V dimming, 10% standard

CGTS NUV Dimensions





PS51903621 page 1

Catalog Number: 14CGTS-NUV//DF-14W-U

Notes:

Type:

B1

ML&C24-119319

Metalux **CGTS NUV**



CGTS NUV Ordering Information/Performance Default CCT/Lumen Setting: 5000K/High

	Default CC1/Lumen Setting. 3000N/mgn										
Size	Catalog	UPC	Lumen Setting	CCT	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)			
				3500	85	3513	30.5	115			
			Low	4000	86	3735	28.8	130			
				5000	85	3617	31.0	117			
				3500	85	3934	35.4	111			
1x4	14CGTS-NUV	80083247806	Medium	4000	86	4232	33.2	128			
				5000	85	4067	35.9	113			
				3500	85	4342	40.3	108			
			High	4000	86	4712	37.6	125			
				5000	85	4486	41.0	109			
		UV 80083247837		3500	85	3515	30.2	117			
			Low	4000	86	3732	28.7	130			
				5000	85	3625	30.5	119			
			Medium	3500	85	3953	34.9	113			
2x2	22CGTS-NUV			4000	86	4228	33.0	128			
			High	5000	85	4060	35.3	115			
				3500	85	4361	39.8	110			
				4000	86	4676	37.5	125			
				5000	85	4462	40.3	111			
				3500	85	4182	35.0	120			
			Low	4000	86	4352	33.6	130			
				5000	85	4333	35.1	124			
				3500	85	4612	39.4	117			
2x4	24CGTS-NUV	80083247851	Medium	4000	86	4787	37.4	128			
				5000	85	4753	39.2	121			
				3500	85	5633	50.1	113			
			High	4000	86	5962	47.6	125			
				5000	85	5898	50.3	117			

CGTS NUV Shipping Data

	1x4	2x2	2x4
Weight (lb.)	4.7	4.4	8.8
Pallet Qty	75	50	25
Pallet Size (in.)	49x53	30x53	30x53

CGTS NUV Options

Catalog	Description	Example	Notes
A3/8-4/18GDIM	6' Length, 3/8" Cable, 2 Wire, 2 Dimming Leads, Ground	24CGTS-NUV-A3/8-4/18G DIM	





Catalog Number: 14CGTS-NUV//DF-14W-U

Notes:

Type:

B1

ML&C24-119319

Metalux **CGTS NUV**

CGTS NUV Accessories

Surface Mounting Options (1)

Catalog No.	Description	UPC			
CGTSNUV-SURF24	2x4 CGTS NUV Surface Mount Kit	080083248346			
CGTSNUV-SURF22	2x2 CGTS NUV Surface Mount Kit	080083248322			
CGTSNUV-SURF14 1x4 CGTS NUV Surface Mount Kit 080083248308					
Note: (1) Cannot be used with FL7W or FL14W ontions					

Drywall Frame Kit

-		
Catalog No.	Description	UPC
DF-24W-U	2x4 dry wall frame kit	662401232970
DF-22W-U	2x2 dry wall frame kit	662401232963
DF-14W-U	1x4 dry wall frame kit	662401232949

Suspension Kit

Catalog	UPC	Description
FPSUS2-ML	080083277469	2 point Y-hanger suspension kit includes aircraft cable, carabiner, ceiling connection, SO cord, cord connectors and round 4" J-box cover plate
Mounting height 1 Min.=7-1/4" [1841 Max.=27" [286mr	mm]	

24" [610mm] 2-3/4"-**-**· 16-11/16" [425mm] -4-ø4.5 22-7/16" [570mm] 24" [610mm] 2x2 Shown

CGTS NUV Driver Enclosure / Junction Box

Top View (2' x 2')



Default CCT/Lumen Setting: 5000K/High



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: 14CGTS-NUV//DF-14W-U

Notes:

Type:

B1

ML&C24-119319

Metalux CGTS NUV

CGTS NUV Product Specifications

Construction

- Die-formed steel back plate is post-painted to ensure durability
- · Housing is constructed absent of holes
- Aluminum door frame miter cut, and mechanically fastened for a precision fit
- Frame weld and ground, for a seamless appearance

Mounting

- Integral grid clips secure fixture to the ceiling structure
- Accessory CGT EQ clips available to mechanically fasten the clips to the fixture, and the fixture to the ceiling system
- Junction box constructed of code gauge galvanized steel with access plate
- Multiple 7/8" KO's provided, suitable for up to 12AWG wiring
- Surface and suspension kits available for use in grid or hard surfaces. Please note that the Suspension kit will be available in early 2023.
- Factory installed flexible cable with dimming leads available

Control

- NUV 120-347V driver with 0-10V dimming, 10% standard
- Can be used with tile mounted sensor or other remote mount controls
- Selectable driver for three color temperature choices and three lumen package choices

Electrical

- CGTS NUV projected lumen maintenance based on TM21 testing standards is >L82 @60,000 hours
- Driver rated for FCC part 15 Class B for use in residential or commercial applications
- LEDs are 85 CRI (minimum) and switch to 3500K, 4000K, and 5000K

Ontical Chiefdina

- Acrylic micro-optics enable uniform distribution of LEDs for uniform lens illumination
- Smooth, frosted lens delivers uniform illumination across the entire lens
- Durable lens with surface texture to minimize scratch and impact damage

Certifications

- cULus listed for 25C ambient environments, indoor applications
- · UL damp location listed
- · IC rated for direct insulation contact
- IESNA LM-79 and LM-80 standards compliant
- Qualifies as State of California Title 24 high efficiency luminaire
- FCC part 15 class B (residential) compliant
- DesignLights Consortium® Qualified and classified for DLC standard. Refer to the DLC Qualified Products list at www.designlights.org/QPL to confirm which versions are qualified
- Meets IP5X rating from the room side with no modification needed

Warranty

- · Five year standard warranty
- · Extended ten year warranty available



medgarl

Job Name:

HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: 14CGTS-NUV//DF-14W-U

Notes:

Type:

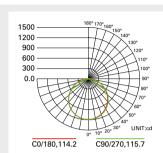
B1

ML&C24-119319

Metalux **CGTS NUV**

Photometric Data





14CGTS-NUV-3035C

Electronic Driver

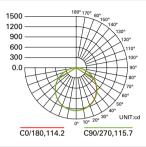
Linear LED 3500K

Spacing criterion: (II) 1.28 x mounting height, (⊥) 1.28 x mounting height

Lumens: 3529 Input Watts: 30W Efficacy: 119.8 LPW

Test Report: 14CGTS-NUV-3035C.IES





14CGTS-NUV-3040C

Electronic Driver

Linear LED 4000K

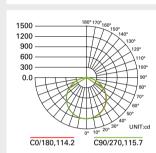
Spacing criterion: (II) 1.28 x mounting height, (\perp) 1.28 x mounting height

Lumens: 3716 Input Watts: 30W Efficacy: 132.1 LPW

Test Report: 14CGTS-NUV-3040C.IES







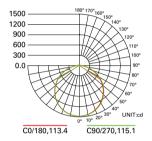
14CGTS-NUV-3050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.28 x mounting height

Lumens: 3568 Innut Watts: 30W Efficacy: 121.8 LPW Test Report: 14CGTS-NUV-3050C.IES





22CGTS-NUV-4035C

Electronic Driver Linear LED 3500K

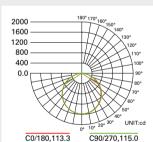
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.28 x mounting height

Lumens: 4320 Input Watts: 40W Efficacy: 113.3 LPW

Test Report: 22CGTS-NUV-4035C.IES







22CGTS-NUV-4040C

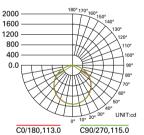
Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height

Input Watts: 40W Efficacy: 126.5 LPW

Test Report: 22CGTS-NUV-4040C.IES





22CGTS-NUV-4050C

Electronic Driver Linear LED 5000K

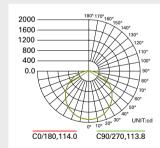
Spacing criterion: (II) 1.26 x mounting height, (1) 1.27 x mounting height

Lumens: 4386 Input Watts: 40W Efficacy: 114.7 LPW

Test Report: 22CGTS-NUV-4050C.IES







24CGTS-NUV-5035C

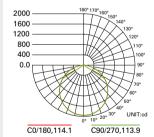
Electronic Driver Linear LED 3500K

Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.27 x mounting height

Lumens: 5483 Input Watts: 50W Efficacy: 110.1 LPW Test Report: 24CGTS-NUV-5035C.IES







24CGTS-NUV-5040C

Electronic Driver Linear LED 4000K

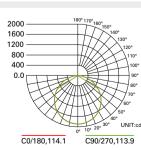
Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height

Lumens: 5664 Input Watts: 50W Efficacy: 119.5 LPW

Test Report: 24CGTS-NUV-5040C.IES







24CGTS-NUV-5050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (\bot) 1.27 x mounting height

Lumens: 5469 Input Watts: 50W Efficacy: 111.3 LPW Test Report: 24CGTS-NUV-5050C.IES





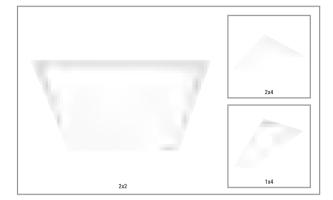
5/5

Index Page

Lumens: 4615







Metalux

CGTS NUV Selectable Lumens and CCT with 120-347V Driver - 2x4/2x2/1x4

LED Backlit Panel
Canada Market Only

Typical Applications
Offices • Education • Healthcare • Retail

Interactive Menu

- Order Information page 2
- · Photometric Data page 4
- Product Warranty

Product Certification











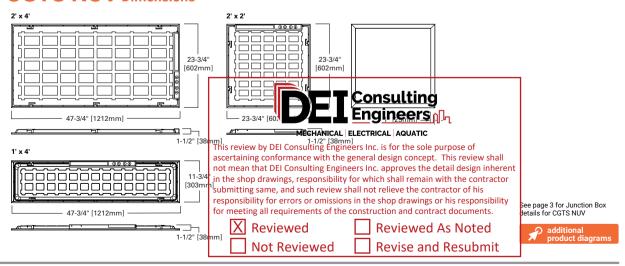


For Canadian Market Only

Top Product Features

- · CGTS NUV steel housing is post-painted to increase efficacy, facilitate installation, and inhibit corrosion
- · CGTS NUV acrylic micro-optics provide uniform illumination across the entire lens
- CGTS NUV extruded aluminum door frame tightly seals to the housing for optimal performance and aesthetics. Minimum fixture height ideal for shallow plenum.
- · CGTS NUV has three color temperature and three lumen package choices for use in a variety of applications
- · CGTS NUV selectable switches located on the side of the junction box, for quick and easy adjustment
- NUV 120 347V driver with 0-10V dimming, 10% standard

CGTS NUV Dimensions







Catalog Number: 24CGTS-NUV

Notes:

Type:

ML&C24-119319

Metalux **CGTS NUV**



CGTS NUV Ordering Information/Performance Default CCT/Lumen Setting: 5000K/High

	betaut 001/Lumen betang. 5000N/Tilgit								
Size	Catalog	UPC	Lumen Setting	ССТ	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)	
				3500	85	3513	30.5	115	
			Low	4000	86	3735	28.8	130	
				5000	85	3617	31.0	117	
				3500	85	3934	35.4	111	
1x4	14CGTS-NUV	80083247806	Medium	4000	86	4232	33.2	128	
				5000	85	4067	35.9	113	
				3500	85	4342	40.3	108	
			High	4000	86	4712	37.6	125	
				5000	85	4486	41.0	109	
					3500	85	3515	30.2	117
	2x2 22CGTS-NUV 80083247837 Medium		Low	4000	86	3732	28.7	130	
		22CGTS-NUV 80083247837 Medium		5000	85	3625	30.5	119	
				3500	85	3953	34.9	113	
2x2			Medium	4000	86	4228	33.0	128	
				5000	85	4060	35.3	115	
				3500	85	4361	39.8	110	
			High	4000	86	4676	37.5	125	
				5000	85	4462	40.3	111	
			3500	85	4182	35.0	120		
			Low	4000	86	4352	33.6	130	
				5000	85	4333	35.1	124	
				3500	85	4612	39.4	117	
2x4	24CGTS-NUV	80083247851	Medium	4000	86	4787	37.4	128	
				5000	85	4753	39.2	121	
				3500	85	5633	50.1	113	
			High	4000	86	5962	47.6	125	
				5000	85	5898	50.3	117	

CGTS NUV Shipping Data

	1x4	2x2	2x4
Weight (lb.)	4.7	4.4	8.8
Pallet Qty	75	50	25
Pallet Size (in.)	49x53	30x53	30x53

CGTS NUV Options

Catalog	Description	Example	Notes
A3/8-4/18GDIM	6' Length, 3/8" Cable, 2 Wire, 2 Dimming Leads, Ground	24CGTS-NUV-A3/8-4/18G DIM	





Catalog Number: 24CGTS-NUV

Notes:

Type:

ML&C24-119319

Metalux **CGTS NUV**

CGTS NUV Accessories

Surface Mounting Options (1)

Catalog No.	Description	UPC			
CGTSNUV-SURF24	2x4 CGTS NUV Surface Mount Kit	080083248346			
CGTSNUV-SURF22	2x2 CGTS NUV Surface Mount Kit	080083248322			
CGTSNUV-SURF14 1x4 CGTS NUV Surface Mount Kit 080083248308					
Note: (1) Cannot be used with FL7W or FL14W ontions					

Drywall Frame Kit

-		
Catalog No.	Description	UPC
DF-24W-U	2x4 dry wall frame kit	662401232970
DF-22W-U	2x2 dry wall frame kit	662401232963
DF-14W-U	1x4 dry wall frame kit	662401232949

Suspension Kit

Catalog	UPC	Description
FPSUS2-ML	080083277469	2 point Y-hanger suspension kit includes aircraft cable, carabiner, ceiling connection, SO cord, cord connectors and round 4" J-box cover plate
Mounting height 1 Min.=7-1/4" [184r Max.=27" [286mr	mm]	

24" [610mm] 2-3/4"-**-**[70mm] · 16-11/16" [425mm] -4-ø4.5 22-7/16" [570mm] 24" [610mm] 2x2 Shown

CGTS NUV Driver Enclosure / Junction Box

Top View (2' x 2')



Default CCT/Lumen Setting: 5000K/High





HDSB - Glenview Public School Gym Addition

Addition Engineer: DEI & Associates (Waterloo) Catalog Number: 24CGTS-NUV

Notes:

Type:

C

ML&C24-119319

Metalux CGTS NUV

CGTS NUV Product Specifications

Construction

- Die-formed steel back plate is post-painted to ensure durability
- · Housing is constructed absent of holes
- Aluminum door frame miter cut, and mechanically fastened for a precision fit
- Frame weld and ground, for a seamless appearance

Mounting

- Integral grid clips secure fixture to the ceiling structure
- Accessory CGT EQ clips available to mechanically fasten the clips to the fixture, and the fixture to the ceiling system
- Junction box constructed of code gauge galvanized steel with access plate
- Multiple 7/8" KO's provided, suitable for up to 12AWG wiring
- Surface and suspension kits available for use in grid or hard surfaces. Please note that the Suspension kit will be available in early 2023.
- Factory installed flexible cable with dimming leads available

Control

- NUV 120-347V driver with 0-10V dimming, 10% standard
- Can be used with tile mounted sensor or other remote mount controls
- Selectable driver for three color temperature choices and three lumen package choices

Electrical

- CGTS NUV projected lumen maintenance based on TM21 testing standards is >L82 @60,000 hours
- Driver rated for FCC part 15 Class B for use in residential or commercial applications
- LEDs are 85 CRI (minimum) and switch to 3500K, 4000K, and 5000K

Ontical Chiefdina

- Acrylic micro-optics enable uniform distribution of LEDs for uniform lens illumination
- Smooth, frosted lens delivers uniform illumination across the entire lens
- Durable lens with surface texture to minimize scratch and impact damage

Certifications

- cULus listed for 25C ambient environments, indoor applications
- · UL damp location listed
- · IC rated for direct insulation contact
- IESNA LM-79 and LM-80 standards compliant
- Qualifies as State of California Title 24 high efficiency luminaire
- FCC part 15 class B (residential) compliant
- DesignLights Consortium® Qualified and classified for DLC standard. Refer to the DLC Qualified Products list at www.designlights.org/QPL to confirm which versions are qualified
- Meets IP5X rating from the room side with no modification needed

Warranty

- · Five year standard warranty
- · Extended ten year warranty available





HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: 24CGTS-NUV

Notes:

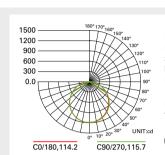
Type:

ML&C24-119319

Metalux **CGTS NUV**

Photometric Data





14CGTS-NUV-3035C

Electronic Driver

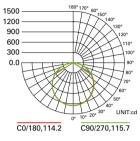
Linear LED 3500K

Spacing criterion: (II) 1.28 x mounting height, (⊥) 1.28 x mounting height

Lumens: 3529 Input Watts: 30W Efficacy: 119.8 LPW

Test Report: 14CGTS-NUV-3035C.IES





14CGTS-NUV-3040C

Electronic Driver

Linear LED 4000K

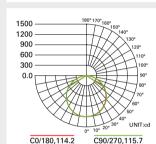
Spacing criterion: (II) 1.28 x mounting height, (\perp) 1.28 x mounting height

Lumens: 3716 Input Watts: 30W Efficacy: 132.1 LPW

Test Report: 14CGTS-NUV-3040C.IES







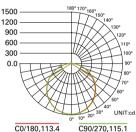
14CGTS-NUV-3050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.28 x mounting height

Lumens: 3568 Innut Watts: 30W Efficacy: 121.8 LPW Test Report: 14CGTS-NUV-3050C.IES





22CGTS-NUV-4035C

Electronic Driver Linear LED 3500K

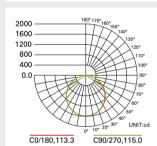
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.28 x mounting height

Lumens: 4320 Input Watts: 40W Efficacy: 113.3 LPW

Test Report: 22CGTS-NUV-4035C.IES







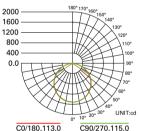
22CGTS-NUV-4040C

Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height Lumens: 4615

Input Watts: 40W Efficacy: 126.5 LPW Test Report: 22CGTS-NUV-4040C.IES





22CGTS-NUV-4050C

Electronic Driver Linear LED 5000K

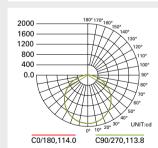
Spacing criterion: (II) 1.26 x mounting height, (1) 1.27 x mounting height

Lumens: 4386 Input Watts: 40W Efficacy: 114.7 LPW

Test Report: 22CGTS-NUV-4050C.IES







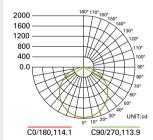
24CGTS-NUV-5035C

Electronic Driver Linear LED 3500K

Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.27 x mounting height

Lumens: 5483 Input Watts: 50W Efficacy: 110.1 LPW Test Report: 24CGTS-NUV-5035C.IES





24CGTS-NUV-5040C

Electronic Driver Linear LED 4000K

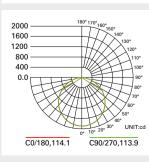
Spacing criterion: (II) 1.27 x mounting height, (1) 1.27 x mounting height

Lumens: 5664 Input Watts: 50W Efficacy: 119.5 LPW

Test Report: 24CGTS-NUV-5040C.IES







24CGTS-NUV-5050C

Electronic Driver Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (\bot) 1.27 x mounting height Lumens: 5469

Input Watts: 50W Efficacy: 111.3 LPW Test Report: 24CGTS-NUV-5050C.IES





Addition Engineer: DEI & Associates (Waterloo)

HDSB - Glenview Public School Gym

Project	Catalog #	Туре	
Prepared by	Notes	Date	



HALO Commercial

HC4 | HM4 | 41/41PS

4-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

- Order Information page 2
- · Product Specifications page 4
- Photometric Data page 5
- Energy & Performance Data page 8
- Connected Systems page 10
- · Product Warranty

Product Certification











Product Features



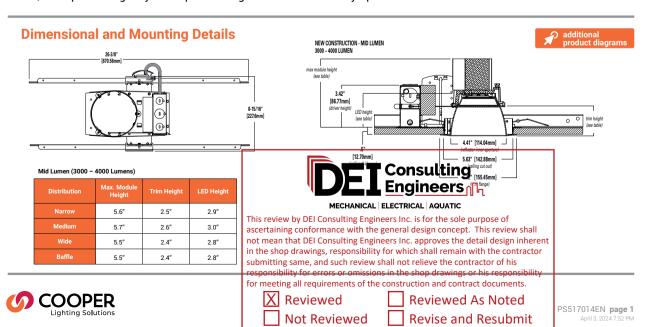






Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- · Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K and 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- · Mounting frame converts to remodel that installs from below the ceiling
- · Quick Spec emergency backup mounting frames fast delivery option



Catalog Number:

HC410D010//HM40525840//41MDH

Notes:

Type:

ML&C24-119319

HALO Commercial

HC4 | HM4 | 41/41PS

Mounting Frame Order Information

Sample Number: HC420D010REM7 - HM40525930 - 41MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC4 = 4" new construction downlight housing	05 = 500 lm 07 = 750 lm 10 = 1000 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) REM14 = 14 watt emergency battery pack with remote test /	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting
HC4CP = 4" new construction housing, Chicago Plenum - CCEA compliant	15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm (7) 50 = 5000 lm (7) 55 = 5500 lm (7) 60 = 6000 lm (7)	Canada Option 500-5000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000llm models only (1) Canada Option 5500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only (1)	indicator light, use with D010 only (1)(2)(0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinx PRO Tilemount Sensor Kit ⁽⁹⁾ WTK = Field WaveLinx LITE Tilemount Sensor Kit ⁽⁹⁾
		DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. (1)	REMV7 = 7 watt emergency battery pack with remote test / indicator light, use with DLV only (0.00 lb) REMV14 = 14 watt emergency battery pack with remote test / indicator light, use with DLV only (0.00 lb) REMV7 = 7 watt emergency battery pack with integral test / indicator light, use with DLV only (0.00 lb) (0.00 lb) REMV14 = 14 watt emergency battery pack with integral test / indicator light, use with DLV only (0.00 lb) (0.00 lb)	
Notes	Notes	Notes	Notes	Notes
	(7) Marked Spacing: Center to Center of Adjacent Lumnaires = 36° C Center of Luminaire to Building Member = 18° Minimum overhead = 0.5	(1) Not available with CP models	(1) Not available with CP models (2) Not available with D010347 (347V models) (3) Ulus for U.S. only (4) WTA - WaveLinx PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RI TS - Real Time Location Services, use with D010 only (Refer to WaveLinx specifications) (5) WTK - WaveLinx LTIE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE specifications) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of EV of Telescore or the Service of Color (10) EIM option requires compatible EIM reflector or baffle trim. See Trim Ordering below. (11) WPN = WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V diver only, Not compatible with 347V or Chicago plenum. (Refer to WaveLinx PRO specifications.) (12) WIN = WaveLinx LTIE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only, Not compatible with 347V or Chicago plenum. (Refer to WaveLinx LTIE specifications.)	(4) WTA = WaveLinx PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RITS - Real Time Location Services, use with D010 only. (Refer to WaveLinx PRO specifications.) (S) WTK = WaveLinx ILTE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinx LITE specifications.)

Quick Spec Emergency Mounting Frame Order Information

Sample Number:

Quick Spec Emergency Mounting Frame: RR-HC420D010REM7

Order separately: LED Module: HM40525835 | Reflector: 41MDC

Select from the Quick Spec Mounting Frame ordering information to receive the Fast Delivery option for the frame.

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency Options	Accessories (Order & Install Separately)
RR = East Region BRR = West Region	HC4 = 4" new construction downlight housing	10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 onlyt ⁽²⁾⁽⁰⁾ REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 onlyt ⁽²⁾⁽⁰⁾ IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 onlyt ⁽²⁾⁽⁰⁾⁽⁰⁾⁽⁰⁾ (indicator light, use with D010 onlyt ⁽²⁾⁽⁰⁾⁽⁰⁾⁽⁰⁾ (indicator light, use with D010 onlyt ⁽²⁾⁽⁰⁾⁽⁰⁾⁽⁰⁾)	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long
	Notes	Notes	Notes	Notes	Notes
				(2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (10) EM option requires compatible IEM reflector or baffle trim. See Trim Ordering below.	



Catalog Number:

HC410D010//HM40525840//41MDH

Notes:

Type:

F

ML&C24-119319

HALO Commercial

HC4 | HM4 | 41/41PS

LED Module Order Information

LED Module	Lumens	CRI/CCT	
LED Module	Lumens	CRI/	сст
HM4 = 4" LED module	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes	No	tes

Trim Order Information

Reflector	Distribution ⁽⁸⁾	Finish	Flange	Accessories
41 = 4" conical reflector	ND = narrow 50° heam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
41 = 4" baffle reflector	WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option available with BB	41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

Reflector	Distribution ⁽⁸⁾	Finish	Flange
41PS = 4" non-conductive polymer 'dead front' conical reflector (9)	MD = medium 60° beam angle 1.00 SC (nominal)	W = White	Blank = White flange standard with W reflector
Notes	Notes	Notes	Notes
(9) 41PS* is 1000-3000 lumens Non-IC rated. 500 & 750 lumens IC rated. 41PS is not for use over 3000 lumens in Non-IC or over 750 lumens in IC.	(8) Values are nominal for white reflector, others may vary.		

IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
41 = 4" conical reflector for integral emergency only	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal)	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
41 = 4" baffle reflector for integral emergency only	WD = wide 75° beam angle 1.24 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option with BB	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

HC410D010//HM40525840//41MDH

Notes:

Type:

ML&C24-119319

HALO Commercial

HC4 | HM4 | 41/41PS

Product Specifications

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- · Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- · Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 [umens (nominal)]
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflecto

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 3000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention

 Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

- Field-replaceable constant current driver provides low noise operation
- · Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quickturn projects

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

 WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node

 WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

 WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

 WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by directmount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.
- Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.

Junction Box

- · Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
- Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
- IP20 Above finished ceiling; IP64 Below finished ceiling
- Non-Insulated ceiling (Non-IC) rated for 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
- Insulated ceiling (IC) rated for 500, 750, 1000, 1500 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
- Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
 - Marked Spacing Center to Center of Adjacent Luminaires = 36"
 - Center of Luminaire to Building Member = 18"
 - Minimum overhead = 0.5"
- · Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- · Contains no mercury or lead and RoHS compliant
- Photometric testing completed in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 1,000 and 1,500 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
- May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database
 - *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Catalog Number:

HC410D010//HM40525840//41MDH

Notes:



ML&C24-119319

HALO Commercial

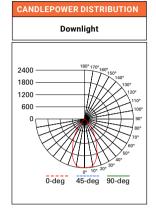
HC4 | HM4 | 41/41PS

Photometric Data



NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARR	OW (50° BEAM*)	
Test Number	P571728	
Housing	HC420D010	
Module	HM40525835	
Reflector	41NDC	
Lumens	2010 Lm	
Efficacy	100.5 Lm/W	
SC	0.84	
UGR	12.2	



CONE OF LIGHT					
000					
МН	FC	L	W		
5.5'	79.3	4.6	4.6		
7'	49	5.8	5.8		
8'	37.5	6.6	6.6		
9'	29.6	7.4	7.4		
10'	24	8.4	8.4		
12'	16.7	10	10		

CANDE	LA TABLE
Degrees Vertical	Candela
0	2400
5	2387
15	2110
25	1368
35	676
45	152
55	23
65	5
75	1
85	0
90	0

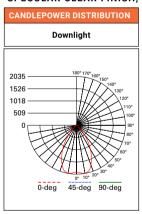
ZONAL LUMEN SUMMARY					
Zone	Lumens	% Fixture			
0-30	1436	71.5			
0-40	1848	92			
0-60	2002	99.6			
0-90	2010	100			
90-180	0	0			
0-180	2010	100			

LUMINANCE			
Average Candela Degrees	Average 0° Luminance		
45	26514		
55	4968		
65	1576		
75	667		
85	0		

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)			
Test Number	P571727		
Housing	HC420D010		
Module	HM40525835		
Reflector	41MDC		
Lumens	2096 Lm		
Efficacy	104.8 Lm/W		
sc	1.0		
UGR	13.6		



CONE OF LIGHT					
0.					
МН	FC	L	w		
5.5'	65.3	5.4	5.4		
7'	40.3	6.8	6.8		
8'	30.9	7.8	7.8		
9'	24.4	8.8	8.8		
10'	19.8	9.8	9.8		
12'	11.8	11.8			

CANDELA TABLE			
Degrees Vertical	Candela		
0	1969		
5	1997		
15	1974		
25	1467		
35	800 192 26		
45			
55			
65	4		
75	1		
85	0		
90	0		

ZONAL LUMEN SUMMARY					
Zone	Lumens	% Fixture			
0-30	1408	67.1			
0-40	1899	90.6			
0-60	2091	99.7			
0-90	2096	100			
90-180	0	0			
0-180	2096	100			

LUMIN	IANCE		
Average Candela Degrees Average C			
45	33405		
55	5548		
65	1197		
75	667		
85	0		

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating



Note: Refer to IES files for more product data.

Catalog Number:

HC410D010//HM40525840//41MDH

Notes:

Type:

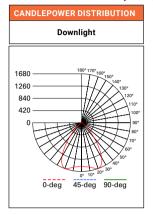
ML&C24-119319

HALO Commercial

HC4 | HM4 | 41/41PS

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (75° BEAM*)				
Test Number	P571730			
Housing	HC420D010			
Module	HM40525835			
Reflector	41WDC			
Lumens	2304 Lm			
Efficacy	115.2 Lm/W			
sc	1.25			
UGR	15.7			



CONE OF LIGHT								
0° D								
MH FC L W								
5.5'	49.9	6.8	6.8					
7'	30.8	8.6	8.6					
8′	23.6	9.8	9.8					
9'	18.6	11.2	11.2					
10'	15.1	12.4	12.4					
12'	10.5	14.8	14.8					

CANDELA TABLE				
Degrees Vertical	Candela			
0	1509			
5	1525			
15	1630			
25	1603			
35	1012			
45	369			
55	44			
65	5			
75	1			
85	0			
90	0			

ZONAL LUMEN SUMMARY				
Lumens	% Fixture			
1334	57.9			
1960	85.1			
2296	99.7			
2304	100			
0	0			
2304	100			
	1334 1960 2296 2304			

LUMIN	NANCE
Average Candela Degrees	Average 0° Luminance
45	64437
55	9355
65	1576
75	667
85	0

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

			•				
500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.24	1.54	1.85
4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen			
2.15	2.28	2.44	2.52	2.62			

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	н	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.94	0.88	0.76

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

Г	001 manup					
		3000K	3500K	4000K	5000K	
	0.89	0.96	1.00	1.03	1.03	

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.76	0.85	0.89	0.93	0.93

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

Catalog Number:

Notes:

HC410D010//HM40525840//41MDH

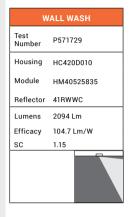
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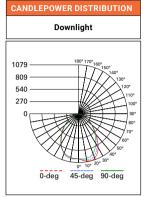
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HALO Commercial

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WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K





CANDELA TABLE				
Degrees Vertical	Candela			
0	1005			
5	1041			
15	1079			
25	980			
35	743			
45	494			
55	312			
65	180			
75	80			
85	10			
90	0			

ZONAL LUMEN SUMMARY						
Zone	Lumens	% Fixture				
0-30	789	37.7				
0-40	1221	58.3				
0-60	1872	89.4				
0-90	2094	100				
90-180	0	0				
0-180	2094	100				

LUMINANCE						
Average Candela Degrees	Average 0° Luminance					
45	86207					
55	67159					
65	52681					
75	38173					
85	13445					

SC = Spacing Criteria, nominal for specular clear reflector, other may vary.

	SINGLE UNIT POUTCAMDLES						
2.5' from wall (distance from fixture along wall)							
1	18.7	13.6	6.1	2.3	0.8	0.3	0.1
2	28.4	22.3	12.2	5.7	2.6	1.2	0.6
3	25.9	21.4	13.3	7.2	3.8	2	1.1
4	19.6	16.9	11.6	7	4.1	2.4	1.4
5	13.6	12.3	9.2	6.2	3.9	2.5	1.5
6	9.3	8.6	7	5.1	3.5	2.3	1.6
7	6.4	6.1	5.2	4.1	3	2.1	1.5
8	4.6	4.4	3.9	3.2	2.5	1.8	1.3

SINGLE LINIT FOOTCANDLES

MULTIPLE UNIT						
2.5' from wall (Distance from fixture along wall) 3						
1	21	18.8	21			
2	34.1	34.1	34.1			
3	33.1	34.4	33.1			
4	26.7	28.7	26.7			
5	19.8	21.7	19.8			
6	14.4	15.8	14.4			
7	10.5	11.4	10.5			
8	7.8	8.3	7.8			
9	5.8	6.2	5.8			
10	4.4	4.7	4.4			

FOOTCANDLES							
	2.5' from wall (Distance from fixture along wall) 4						
	19.5	12.1	19.5				
	31	24.4	31				
	29.7	26.5	29.7				
	23.7	23.3	23.7				
	17.5	18.5	17.5				
	12.8	14	12.8				
	9.4	10.4	9.4				
	7	7.7	7				
	5.4	5.9	5.4				
	4.1	4.5	4.1				

Photometric Multipliers (Nominal Lumen Values)

2.2

3.3 3.2

2.5

10

	500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lun
	0.33	0.44	0.54	0.74	1.00	1.24	1.54	1.85
	4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen			
ĺ	2.15	2.28	2.44	2.52	2.62			

1.1

1.6 1.2

1.7 1.4

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	Н	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.94	0.88	0.76

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.89	0.96	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.76	0.85	0.89	0.93	0.93

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.





HDSB - Glenview Public School Gym

Rf = 86

Rg = 95.5

Ra = 83.8

R9 = 10.3

ANNOK SONOK

76°

wide

Catalog Number:

HC410D010//HM40525840//41MDH

Notes:

Type:

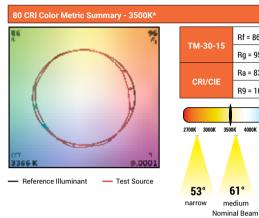
ML&C24-119319

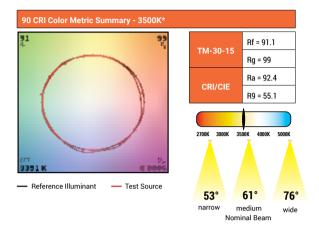
HALO Commercial

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Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)





* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 I	umen	750 l	umen	1000	lumen	1500	lumen	2000	umen
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500	lumen	3000	lumen	3500	lumen	4000	umen	4500 l	umen
Input Voltage 120-277VAC	120V	277V								
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 l	lumen	6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:
* Emergency Battery packs are rated for a minimum starting temperature of 0°C.



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Catalog Number:

Notes:

HC410D010//HM40525840//41MDH

Type:

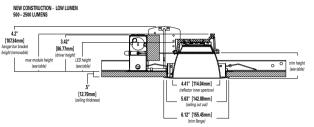
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HALO Commercial

HC4 | HM4 | 41/41PS

Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 - 2500 LUMENS



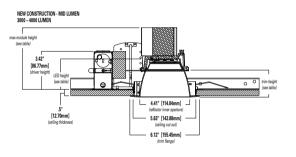
Low Lumen (500 - 2500 Lumens)*

Distribution	Max. Module Height	Trim Height	LED Height	
Narrow	3.6"	2.5"	2.7"	
Medium	3.7"	2.6"	2.8"	
Wide	3.5"	2.4"	2.6"	
Baffle	3.1"	2.4"	2.6"	



*Max. height w/removable hanger bar bracket 4.2"

NEW CONSTRUCTIONS - MID LUMEN 3000 - 4000 LUMENS



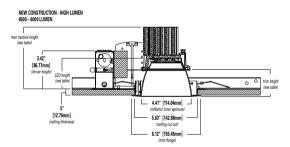
Mid Lumen (3000 - 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height	
Narrow	5.6"	2.5"	2.9"	
Medium	5.7"	2.6"	3.0"	
Wide	5.5"	2.4"	2.8"	
Baffle	5.5"	2.4"	2.8"	



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 - 6000 LUMENS



High Lumen (4500 - 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height	
Narrow	5.9"	2.5"	2.9"	
Medium	6.0"	2.6"	3.0"	
Wide	5.8"	2.4"	2.8"	
Baffle	5.8"	2.4"	2.8"	



High Lumen Module



HDSB - Glenview Public School Gym

Catalog Number:

HC410D010//HM40525840//41MDH

Type:

ML&C24-119319

HALO Commercial

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Connected Solutions



WaveLinx LITE - WTK Tilemount Sensor

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- · Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- · Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- · Refer to the WaveLinx system specifications for details







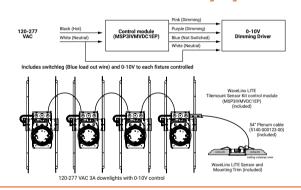








WaveLinx LITE WTK Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System



WaveLinx PRO - WTA Tilemount Sensor

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

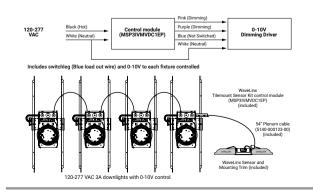
- · WaveLinx PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- · Automatic code commissioning that meets the strictest codes
- · Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



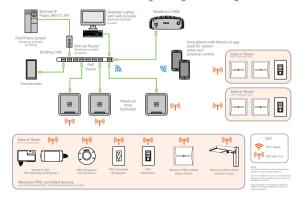
WaveLinx mobile app settings



WaveLinx WTA Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration







HDSB - Glenview Public School Gym

Catalog Number:

Notes:

HC410D010//HM40525840//41MDH

Type:

ML&C24-119319

HALO Commercial

HC4 | HM4 | 41/41PS

Connected Solutions



WaveLinx LITE Wireless Node - WLN

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinx system specifications for details

WaveLinx mobile app settings











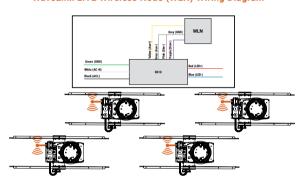








WaveLinx LITE Wireless Node (WLN) Wiring Diagram



WaveLinx LITE Bluetooth Enabled System

WaveLinx PRO Wireless Node - WPN

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- · WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



WaveLinx mobile app settings



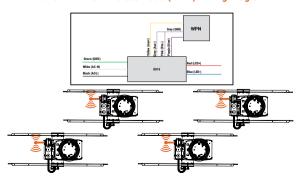




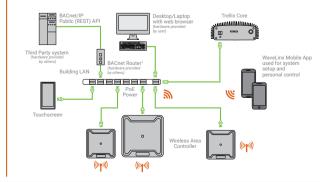




WaveLinx PRO Wireless Node (WPN) Wiring Diagram



WaveLinx CORE Building Management Integration





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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Notes: SUSPENSION BY OTHERS.

Type:

G





Metalux

OHB LED

LED High Bay Efficiency Luminaire 2' Length

Typical Applications

 $\textbf{Industrial} \bullet \textbf{Commercial} \bullet \textbf{Manufacturing} \bullet \textbf{Food Processing} \bullet$ Sports / Multi-Purpose

Product Certification









Product Features











Top Product Features

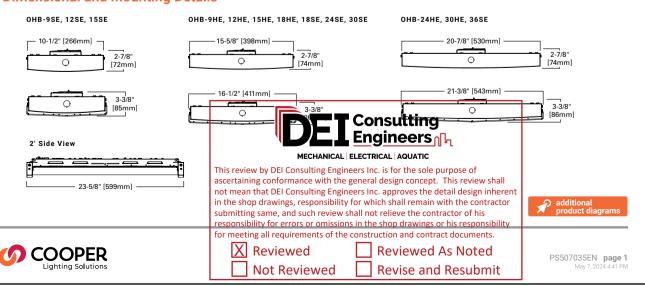
Interactive Menu

• Order Information page 2 • Photometric Data page 3

· Control Solutions page 6 · Product Warranty

- · Precision designed optical performance
- · Offered in both standard and high efficacy versions
- · High performance efficacy up to 200 lm/W
- · Efficient 1-for-1 replacement of linear fluorescent & HID fixtures
- Lumen packages 9K, 12K, 15K, 18K, 24K, 30K, 36K
- · Narrow, medium, and wide distribution
- · Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details





Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

ML&C24-119319

G

Metalux OHB

Order Information

SAMPLE ORDER NUMBER: OHB-24SE-MFL-UNV-L840-CD-WLS4-U Includes V Hangers for rapid installation

Domestic Preferences ⁽¹⁾	Series ⁽²⁾	Lumen Package	Efficacy	Distribution/ Shielding	Voltage ^{(4), (5), (6)}	CCT/CRI
IBlankl=Standard BAA=Buy American Act TAA=Trade Agreements Act	OHB=Optimized High Bay, 2 ft.	9=9,000 Lumens 12=12,000 Lumens 15=15,001 Lumens 18=18,000 Lumens 24=24,000 Lumens 30=30,000 Lumens 36=36,000 Lumens	SE=Standard Efficacy HE=High Efficacy (5)	A=Aisle N=Marrow MFL=Medium Frosted MCL=Medium Clear W=Wide NL=No Lens	120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt UNV=Universal Voltage 120-277 UNC=Universal Voltage 347/480	L730=70CRI / 3000K L735=70CRI / 3500K L740=70CRI / 4000K L750=70CRI / 5000K L830=80CRI / 3000K L840=80CRI / 4000K L840=80CRI / 4000K L930=90CRI / 3500K L935=90CRI / 3500K L935=90CRI / 3000K L935=90CRI / 4000K
Notes (1) Only product configurations with these designated prefixes are built to be compliant with the Bly merican Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes (2) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www. designlights.org for details.		Notes (3) HE not available for 36K lumens.		Notes (4) Voltage must be specified when ordered with plugs or emergency divers. (5) When orderling sensor or EBP/TD option, specify as UNV (for 227V), 347V or 480V. (6) Ambient temperatures limited to 40V when using emergency, sensors, or 5LTD in conjunction with 347V or 480V.	

Options	Driver Type	Wiring	Options / Integrated Sensor	Packaging
UPL_=Uplight (Select lumens from 12, 15, 18, 24, 30, 36) Refer to compatibility chart below (15) Emergency Et.20W=20-watt 120V-277V emergency battery pack installed (7),(8),(19),(11),(12),(14) EL20-W-REM=20-watt 120V-277V emergency battery pack remote mounted (7),(8),(11),(12),(14) ETRD = 120-277V Emergency Transfer Relay with dimming control (9),(19),(12)	CD=Standard Dimming Driver SLTD=DALI Driver (16), (17), (18)	C3 (1)=1 Circuit, 3' Cord with no Plug C3 (2)=2 Circuits, 3' Cord with no Plug C6 (1)=1 Circuit, 6' Cord with no Plug C6 (2)=2 Circuits, 6' Cord with no Plug C10 (2)=2 Circuits, 6' Cord with no Plug C10 (2)=2 Circuits, 10' Cord with no Plug C10 (2)=2 Circuits, 10' Cord with no Plug PC3/120=(NEMA L5-15P) 3' Cord with NEMA Plug PC3/277=(NEMA L7-15P) 3' Cord with NEMA Plug PC3/347=(NEMA L24-20P) 3' Cord with NEMA Plug PC6/120=(NEMA L5-15P) 6' Cord with NEMA Plug PC6/120=(NEMA L5-15P) 6' Cord with NEMA Plug PC6/273=(NEMA L7-15P) 6' Cord with NEMA Plug PC6/373=(NEMA L7-15P) 6' Cord with NEMA Plug PC6/373=(NEMA L7-15P) 6' Cord with NEMA Plug PC6/480=(NEMA L8-20P) 6' Cord with NEMA Plug PC6/480=(NEMA L8-20P) 6' Cord with NEMA Plug	MP=Modular Plug (28) PAF=Painted After Fabrincation HA=High Ambient (291, 202) IP5X=Optics IP5X rated Integrated Sensors MS=360° or 180° Motion Sensor Installed, (specify voltage) (191, 202, (27) OEFP010VMV=Occupancy Sensor with Integrated Photocell (191, 202, (28) FSP-211H,7=PIR Occupancy Sensor with integral 0-10V Dimming (191, 202, (26), (27) Dimming (191, 202, (27), (27), (27) Dimming (191, 202, (27), (27), (27), (27) Dimming (191, 202, (27), (27), (27), (27) Dimming (191, 27), (27), (27) Dimming (191, 27), (27) Dimming (191, (28), (27)	U=Unit Pack PALC=Job Pack, in carton
Notes * Emergency and transfer devices are UL924 listed. (7) For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack. (8) EM options available in 0°C - 45°C ambient. (9) Used to transfer fixture to secondary power during outage. Must be used in conjunction with UL 1008 device (provided by others). (10) OHB-SPM mounting not available with EL20M or ETRO options, (11) Refer to Ambient Chart for temperature ratings, (12) Ambient temperatures limited to 40°C when using emergency, sensors, or 51°D in conjunction with 34°V or 480°V, (15) Not available with 58°C killent package (14) Not available with 10°C (34°V or 480°V, 61°C six Killenten such customers, sensors, or 510°D in conjunction with 34°V or 10°C, 81°C in 10°C	Notes (16) Sensor or UNC not available in conjunction with SLTD driver. (17) SLTD not available for 365E Lumen Package. (18) UPL12 not available in conjunction with SLTD		Notes (19) When ordering sensor or EB/TD Option, specify as UNV (for 120V or 277V), 347V or 480V, (20) Requires use of MC or MPC ord accessories, specify voltage for plugs (MP). (21) High Ambient not available with integrated emergency. (22) HA not offered for 9HE, 9SE, 12HE, 12SE, 15HE, 24HE, 24SE, 30HE, and 365E. (23) Available for UNV (for 120V or 277V) only. (26) Sensor requires sidecar when specified in 36K lumen package. (27) Sensor option not available for 36K lumen package with 347V or 480V. (28) Sensor option not available for 36K lumen package with 480V.	

Accessories (order separately) (31)						
OHR-WG112=Wire quard for 9SE, 12SE and 15SE						
OHB-WG162=Wire guard for 9HE, 12HE, 15HE, 18HE 18SE 24SE, and 30SE						
OHB-WG222=Wire guard for 24HE, 30HE, and 36SE						
Y-TOGGLE2PK=(2) Y-Toggle Cable Kits (Specify 10 or 30 for length in feet)						
FH-1=Fixture Hook (30)						
FL-1=Fixture Loop (30)						
OHB-SPM=Single Point Mounting Hub (29)						
MPC3=3' Modular Power Cord & Plug (Specify Voltage)						
MPC6=6' Modular Power Cord & Plug (Specify Voltage)						
MC3=3' Modular Power Cord						
MC6=6' Modular Power Cord						
Notes						

(29) Single Point Mounting not available with integrated emergency. (30) Must be used in conjunction with OHB-SPM accessory for proper installation. (31) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

		Uplight Lumens and Wattage								
		UPL12	UPL15	UPL18	UPL24	UPL30	UPL36			
Downlight Lumens SE & HE		1200	1500	1800	2400	3000	3600			
		8.4W	10.3W	12.3W	17.4W	23.2W	28.8W			
12	12,000	Х		Х						
15	15,000		Х		Х					
18	18,000	Х		Х	Х					
24	24,000	Х			Х		Х			
30	30,000		Х			Х				
36	36,000			Х			Х			
	SE & 12 15 18 24 30	SE & HE 12 12,000 15 15,000 18 18,000 24 24,000 30 30,000	1200 1200	Downlight Lumens SE & HE 1200 1500	Downlight Lumens SE & HE 1200 1500 1800 1500 1800 120	UPL12 UPL15 UPL18 UPL24 1200 1500 1800 2400 1500 1800 2400 1500 1800 2400 1500 1800 17.4W 12 12,000 X	Downlight Lumens SE & HE 1200 1500 1800 2400 3000			

Notes: Uplight not available in 70 CRI





HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

ML&C24-119319

G

Metalux **OHB**

Product Specifications

- Rugged and durable scalable design with rigid, steel center channel
- Mechanically attached end caps provide strength and durability
- Suspension mounting with optional wire hook and chain set or cable; Single monopoint mounting with SPM tong hanger

Electrical

- Long-Life LED system coupled with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K and 5000K with 70 CRI, 80 CRI and 90 CRI options
- Electronic drivers are available for 120-277V, 347V and 480V applications
- 0-10V dimming control (standard)
- · Operating temperature of -40°C to 55°C (refer to chart)

Emergency Battery Pack Option

20-watt, 120-277V integral emergency battery pack available to meet critical life-safety lighting requirements

- 90-minute batteries provide constant power to the LED system, ensuring code-compliance
- Integral emergency transfer relay available for generator equipped power systems

Optics

- · Precision designed optics deliver even illumination
- Offered in narrow medium and wide distributions

- · Standard lensing provides additional LED protection and optical control
- Optional wire guards available for more complex environments

- · Integrated WaveLinx sensor options provide wireless individual fixture control and enable code compliance, increased energy savings, grouping of fixtures, and connection to WaveLinx control
- WaveLinx industrial sensors offer installation heights up to 40 feet (45ft major motion) and have coverage patterns up to 5000 square feet (see sensor specifications - field of view)

Finish

- White enamel finish preceded by a multistage cleaning cycle
- Iron phosphate coating with rust inhibitor protects against contaminants and oxidation

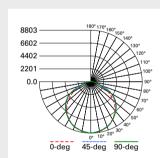
- cULus listed for damp locations
- · LED modules comply with IESNA LM-79 and LM-80 standards
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium (refer to www.designlights.org for details)

Warranty

· Five year warranty standard.

Photometric Data





OHB-24SE-MCL-UNV-L840-CD-U

Electronic Driver Linear LED 4000K

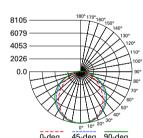
Spacing criterion: (II) 1.26 x mounting height, (⊥) 1.27 x mounting height

Lumens: 24831 Input Watts: 146.6W

Efficacy: 169.4 LPW

Test Report: OHB-24SE-MCL-UNV-

L840-CD-U.IES



OHB-24SE-MFL-UNV-L840-CD-U

Electronic Driver

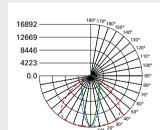
Linear LED 4000K

Spacing criterion: (II) 1.21 x mounting height, (\perp) 1.29 x mounting height

Lumens: 24234 Input Watts: 146.6W

Efficacy: 165.3 LPW

Test Report: OHB-24SE-MFL-UNV-L840-CD-U.IES



45-deg 90-deg

0-deg

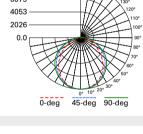
OHB-24SE-N-UNV-L840-CD-U

Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.47 x mounting height, (\perp) 0.53 x mounting height

Lumens: 24628 Input Watts: 146.6W Efficacy: 168 LPW

Test Report: OHB-24SE-N-UNV-L840-



8824

6618

4412

2206

OHB-24SE-W-UNV-L840-CD-U

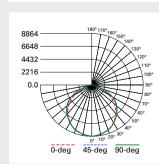
Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.14 x mounting height, (\perp) 1.58 x mounting height

Lumens: 24679

Input Watts: 146.6W Efficacy: 168.3 LPW

Test Report: OHB-24SE-W-UNV-L840-



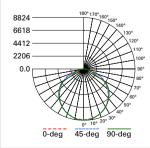
OHB-24SE-A-UNV-L840-CD-U

Flectronic Driver Linear LED 4000K

Spacing criterion: (II) 1.26 x mounting height, (\bot) 1.27 x mounting height

Lumens: 25003 Input Watts: 146.6W Efficacy: 170.6 LPW Test Report: OHB-24SE-A-UNV-L840-

CD-U.IES



45-deg

90-deg

0-deg

OHB-24SE-NL-UNV-L840-CD-U

Electronic Driver Linear LED 4000K

Spacing criterion: (II) 1.14 x mounting height, (\perp) 1.58 x mounting height

Lumens: 24679 Input Watts: 146.6W Efficacy: 168.3 LPW

Test Report: OHB-24SE-NL-UNV-L840-CD-U.IES



PS507035EN page 3

Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

ML&C24-119319

G

Metalux OHB

Energy and Performance Data by Catalog Number

	OHB SE- 5000K 70CRI												
	Lumen Output						Watts	Vatts Efficacy (LPW)					
Catalog Number	Α	N	MFL	MCL	W	NL	277V	Α	N	MFL	MCL	W	NL
OHB-9SE	9041	8905	8762	8978	8923	9365	54	167	165	162	166	165	173
OHB-12SE	12554	12366	12168	12468	12392	13005	75.6	166	163	161	165	164	172
OHB-15SE	15869	15631	15381	15760	15663	16439	97	164	161	159	162	161	169
OHB-18SE	19978	19678	19363	19840	19719	20695	108	185	182	179	184	183	192
OHB-24SE	26323	25927	25513	26142	25982	27268	147	179	176	174	178	177	185
OHB-30SE	31485	31012	30516	31268	31076	32615	181	174	171	169	173	172	180
OHB-36SE	37793	37226	36630	37533	37303	39150	226	167	165	162	166	165	173

	OHB - SE 5000K 80CRI												
	Lumen Output						Watts Efficacy (LPW)						
Catalog Number	Α	N	MFL	MCL	W	NL	277V	Α	N	MFL	MCL	W	NL
OHB-9SE	8612	8483	8347	8553	8501	8922	54	159	157	155	158	157	165
OHB-12SE	11960	11780	11592	11877	11805	12389	75.6	158	156	153	157	156	164
OHB-15SE	15117	14890	14652	15013	14921	15660	97	156	154	151	155	154	161
OHB-18SE	19031	18745	18445	18900	18784	19714	108	176	174	171	175	174	183
OHB-24SE	25076	24699	24304	24903	24751	25976	147	171	168	165	169	168	177
OHB-30SE	29993	29542	29070	29786	29604	31070	181	166	163	161	165	164	172
OHB-36SE	36003	35462	34895	35755	35536	37295	226	159	157	154	158	157	165

	OHB - HE 5000K 70CRI												
	Lumen Output						Watts	Efficacy (LPW)					
Catalog Number	A	N	MFL	MCL	w	NL	277V	Α	N	MFL	MCL	w	NL
OHB-9HE	9533	9390	9240	9468	9410	9876	52	183	181	178	182	181	190
OHB-12HE	12424	12237	12041	12338	12262	12870	70	177	175	172	176	175	184
OHB-15HE	15610	15375	15129	15502	15407	16170	80	195	192	189	194	193	202
OHB-18HE	18747	18465	18170	18618	18504	19420	105	179	176	173	177	176	185
OHB-24HE	24648	24278	23890	24478	24328	25533	128.6	192	189	186	190	189	199
OHB-30HE	30904	30440	29953	30691	30503	32014	166.6	185	183	180	184	183	192

	OHB - HE 5000K 80CRI												
	Lumen Output						Watts	Efficacy (LPW)					
Catalog Number	Α	N	MFL	MCL	W	NL	277V	Α	N	MFL	MCL	W	NL
OHB-9HE	9082	8945	8802	9019	8964	9408	52	175	172	169	173	172	181
OHB-12HE	11835	11657	11471	11754	11682	12260	70	169	167	164	168	167	175
OHB-15HE	14870	14647	14412	14768	14677	15404	80	186	183	180	185	183	193
OHB-18HE	17858	17590	17309	17736	17627	18500	105	170	168	165	169	168	176
OHB-24HE	23480	23128	22758	23319	23176	24323	128.6	183	180	177	181	180	189
OHB-30HE	29440	28998	28534	29237	29058	30497	166.6	177	174	171	175	174	183

Optional Uplight will increase input wattages - refer to Uplight Chart for added wattage.



HDSB - Glenview Public School Gym

Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

ML&C24-119319

G

Metalux OHB

Energy and Performance Data by Catalog Number

Ambient Ratings

Lumen Package	Standard	(HA) High Ambinet	EM
OHB-9SE	65°C	-	45°C
OHB-9HE	65°C	-	45°C
OHB-12SE	55°C	-	45°C
OHB-12HE	55°C	-	45°C
OHB-15SE	45°C	55°C	45°C
OHB-15HE	55°C	-	45°C
OHB-18SE	45°C	55°C	45°C
OHB-18HE	45°C	55°C	45°C
OHB-24SE	55°C	-	45°C
OHB-24HE	55°C	-	45°C
OHB-30SE	45°C	50°C	45°C
OHB-30HE	55°C	-	45°C
OHB-36SE	50°C	-	45°C

Optional Uplight will increase input wattages - refer to Uplight Chart for added wattage.

Energy Data

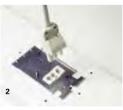
Input Watts:
9SE (9,000 lumens)=54W
9HE (9,000 lumens)=52W
12SE (12,000 lumens)=76W
12HE (12,000 lumens)=70W
15SE (15,000 lumens)=97W
15HE (15,000 lumens)=80W
18SE (18,000 lumens)=108W
18HE (18,000 lumens)=105W
24SE (24,000 lumens)=147W
24HE (24,000 lumens)=130W
36SE (30,000 lumens)=181W
30HE (30,000 lumens)=169W
36SE (36,000 lumens)=226W

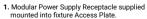
Snipping Data								
Catalog No.	Wt.							
OHB-9SE	10 lbs.							
OHB-9HE	13 lbs.							
OHB-12SE	10 lbs.							
OHB-12HE	10 lbs.							
OHB-15SE	13 lbs.							
OHB-15HE	13 lbs.							
OHB-18SE	13 lbs.							
OHB-18HE	13 lbs.							
OHB-24SE	13 lbs.							
OHB-24HE	13 lbs.							
OHB-30SE	16 lbs.							
OHB-30HE	16 lbs.							
OHB-36SE	20 lbs.							

Modular Power Supply Option

Modular Power Supply option
Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time saver in installation – simply plug & power.







2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply.



No internal fixture access required for installation or disconnecting power

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)	
25°C	> 89%	> 182,000	

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- · Receptacle complete with insulating/dust cap



Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

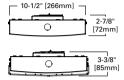
ML&C24-119319

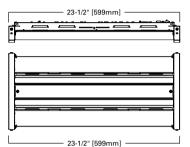
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Metalux **OHB**

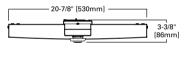
Dimensional and Mounting Details

OHB-9SE, 12SE, 15SE

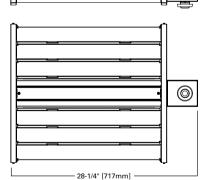




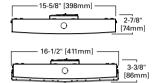
OHB 36SE with Sidecar

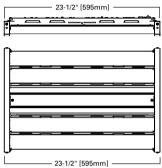


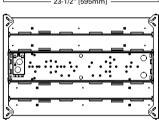
28-1/4" [717mm]



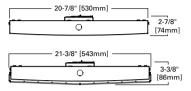
OHB-9HE, 12HE, 15HE, 18HE, 18SE, 24SE, 30SE

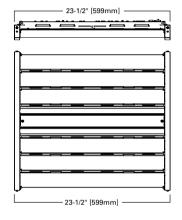






OHB-24HE, 30HE, 36SE





OHB with EBP





HDSB - Glenview Public School Gym Addition

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

OHB-18SE-MFL-UNV-L840-CD-U// OHB-WG162-U

Notes: SUSPENSION BY OTHERS.

Type:

ML&C24-119319

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Metalux OHB



- WaveLinx LITE wireless
- · WaveLinx PRO wireless
- · WaveLinx CAT wired
- · WaveLinx Wired



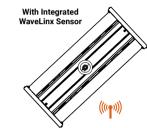
The OHB with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.



WaveLinx PRO is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinx PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinx CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinx PRO offers a rich portfolio of wireless devices, WaveLinx PRO-enabled luminaires, and an intuitive WaveLinx mobile app for office, education, warehouse, and parking garage applications.

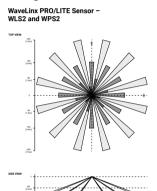


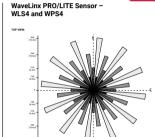
WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

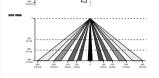


	\vee	•			
		Integrated Contro	ols Options		
Option	Out of the Box Functionality	Occupancy Sensing	CCT Control		
WLS	Х	Х	Х	Х	
WPS		х	х	х	

Integrated Sensor Coverage Pattern







Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.











•					CORP. CARRIED	
	Luminaire with standalone sensor	Standalone Spaces WaveLinx LITE	Standalone Spaces WaveLinx CAT	Networked Spaces WaveLinx PRO	Enterprise WaveLinx CORE	
Occupancy	Yes	Yes	Yes	Yes	Yes	
Daylighting	Yes	Yes	Yes	Yes	Yes	
Wallstations	-	Yes	Yes	Yes	Yes	
Gateways	-	-	-	1 WAC	300 WACs	
Devices (MAX)	-	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise	
Software	-	WaveLinx LITE Mobile App	WaveLinx CAT Mobile App	WaveLinx Mobile App	CORE	
Areas	-	28 per Space	Unlimited	50 per WAC2	up to 3,000	
Zones	-	16 per Area	16 per Area	16 per Area	up to 9,000	
Scheduling	-	-	-	Local	Global	
VividTune™	-	-	-	Yes	Yes	
Plug-Load Control	-	Yes	Yes	Yes	Yes	
Low-Voltage Power	er –	-	Yes	Yes	Yes	
Integration	-	-	-	-	BACnet, API	
Dashboards	_	-	-	-	Energy, Occupancy	
Configuration	-	Installer	Installer	Technician	Technician / IT	



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2024 Cooper Lighting Solutions All Rights Reserved. Specifications and dimensions subject to change without notice.

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HDSB - Glenview Public School Gym

Catalog Number:

~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

SR

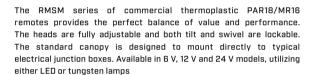
ML&C24-119319





RMSM PAR18/MR16 MINI REMOTE

PLASTIC CONSTRUCTION SINGLE, DOUBLE, TRIPLE, OR QUAD 6 V, 12 V & 24 V LAMPS LED. & TUNGSTEN





- · UV stabilized, high impact thermoplastic, composite head construction
- Fully adjustable both tilt and swivel
- 5" diameter thermoplastic canopy standard
- Two surface canopy mounting holes designed to match standard electrical junction boxes
- White color is standard. black is optional

- Variety of lamp options:
- 6 V DC, 12 V DC or 24 V DC
- Tungsten lamps
- LED lamps
- AimLite's LED current technology ensures the lumens output remains constant throughout the battery's discharge whether at 6 V, 12 V, or 24 V applications.





MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

X	Reviewed
	Not Reviewed

Reviewed As Noted
Revise and Resubmi

NUCLEUS

· This unit can be connected to Nucleus's smart battery unit. Please view the Nucleus brochure for more details on this technology.

APPROVALS

- CSA Certified to C22.2 #141-15
- · Meets requirements of ICES-005

OVERVIEW				
LIGHT SOURCE	LED OR INCANDESCENT	DC VOLTAGE (V DC)	6, 12, 24	
NUCLEUS COMPATIBLE	QUICKSHIP (D) LED	ICES OD5		

For complete warranty details, please see our terms and conditions on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

AimLite

RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374



Catalog Number: ~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

ML&C24-119319

SR

RMSM

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Remote head shall be [] V, [] W, [] lumens, fully adjustable for maximum spacing, injection molded, impact resistant, flame retardant thermoplastic. The LED's, lens and circuit boards shall be fully integrated in the molded shell to ensure extended life and maximum performance. Fixture shall be supplied with a canopy for installation on any four-inch octagon box. The remote fixtures shall be certified to CSA 22.2 No.141-15 and be ICESOD5 compliant. The remote unit shall be Aimlite model: RMSM.

AimLite RMSM • REV. 2023-11-8 т 514 227-1288 TF 1866 348-2374 aimlite.com

Submitted On: Jul 10, 2024 2/7 **Index Page**



Catalog Number: ~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

SR

ML&C24-119319

RMSM

QUICK SHIP ORDERING GUIDE



PART NO	DC VOLTS (V DC)	NBR OF HEADS	HEAD	LAMP [W]	LIGHT SOURCE	COLOR
RMSM1-06V2WLJWHT	6	1	RMSM	2	LED	WHITE
RMSM1-12V2WLJWHT	12	1	RMSM	2	LED	WHITE
RMSM1-06-12V3WLJ	6-12	1	RMSM	3	LED	WHITE
RMSM1-06-12V4WLJ	6-12	1	RMSM	4	LED	WHITE
RMSM1-06V09WT	6	1	RMSM	9	TUNGSTEN	WHITE
RMSM1-12V09WT	12	1	RMSM	9	TUNGSTEN	WHITE
RMSM1-24V09WT	24	1	RMSM	9	TUNGSTEN	WHITE
RMSM2-06V2WLJWHT	6	2	RMSM	2	LED	WHITE
RMSM2-12V2WLJWHT	12	2	RMSM	2	LED	WHITE
RMSM2-06-12V3WLJ	6-12	2	RMSM	3	LED	WHITE
RMSM2-06-12V4WLJ	6-12	2	RMSM	4	LED	WHITE
RMSM2-06V09WT	6	2	RMSM	9	TUNGSTEN	WHITE
RMSM2-12V09WT	12	2	RMSM	9	TUNGSTEN	WHITE
RMSM2-24V09WT	24	2	RMSM	9	TUNGSTEN	WHITE

QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

ORDERING GUIDE - LED

RMSM						1
SERIES	NBR OF HEADS	VOLTS (V DC OPERATIONAL)	WATTAGE (W)	LAMP TYPE	COLOR	OPTIONS
RMSM	1 - SINGLE HEAD 2 - DOUBLE HEAD 3 - TRIPLE HEAD 4 - QUAD HEAD (REQUIRE 12" DIA. CANOPY)	06-12 V - 6 TO 12 12-24 V - 12 TO 24 24 V - 24	3W - 3 4W - 4 5W - 5 6W - 6 7W - 7 4W - 4 5W - 5	LA - LED LR - LED LA - LED	WHT - WHITE (STANDARD) BLK - BLACK	LCP, VDR, WGD
	1 - SINGLE HEAD 2 - DOUBLE HEAD	NUC - NUCLEUS DRIVER NUC - NUCLEUS DRIVER	5W - 5 2.5W - 2.5 5W - 5	LJ - LED		

ORDERING GUIDE - INCANDESCENT

RMSM		-			1
SERIES	NBR OF HEADS	VOLTS (V DC)	LAMP	COLOR	OPTIONS
RMSM	1 - SINGLE HEAD 2 - DOUBLE HEAD 3 - TRIPLE HEAD 4 - QUAD HEAD (REQUIRE 9.53"DIA. CANOPY)	06V - 6 12V - 12 24V - 24	SEE LAMP SELECTION CHART BELOW	WHT - WHITE (STANDARD) BLK - BLACK	LCP - LESS CANOPY WGD - WIREGUARD (ORDER SEPARATELY)

AimLite RMSM • REV. 2023-11-8 т 514 227-1288 TF 1866 348-2374 aimlite.com

Catalog Number:

~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

ML&C24-119319

SR

RMSM

LAMP SELECTION - INCANDESCENT

PAR18 · SMALL HEAD	6 V	12 V	24 V
QUARTZ HALOGEN		10WQ	
TUNGSTEN	09WT	9WT	9WT, 18WT

WIREGUARD1

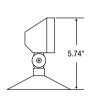
	PART NUMBER	DIMENSIONS (IN)
1 HEAD	WGD550-V2	11 X 8.75 X 6.75
2 HEADS	WGD630	12 X 9 X 9

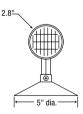
¹ Please contact AimLite customer service representative for more information

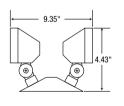
PHOTOMETRY PERFORMANCE

LED		LUMEN OUTPUT (LM)	LM/W	CCT	BEAM ANGLE (°)
2W	LJ	216	63	5000	20
2.5W (NUCLEUS)	LJ	254	102	5000	20
ЗW	LJ	313	104	5000	20
4W	LJ	429	107	5000	28
5W (NUCLEUS)	LJ	473	95	5000	28
5W	LJ	591	118	5000	28
4W	LR	320	80	5000	24
5W	LA	438	87	5000	24
6W	LA	505	84	5000	24
7W	LA	631	90	5000	24

DIMENSIONS



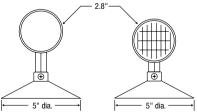




LEXAN GUARD

	PART NUMBER	DIMENSIONS (IN)
1 HEAD	PGD103	7 X 7.25 X 8.5
2 HEADS	PGD104	14 X 7.25 X 7.5
3 HEADS	PGD104	14 X 7.25 X 7.5

LED



AimLite RMSM • REV. 2023-11-8

т 514 227-1288 TF 1866 348-2374



HDSB - Glenview Public School Gym

Catalog Number:

~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

SR

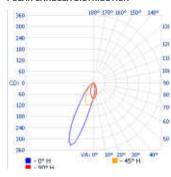
ML&C24-119319

RMSM

PHOTOMETRIC DATA¹

PAR18-6V2WLJ • 124.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

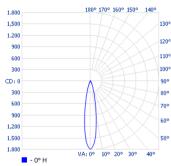
ZONE	LUMENS	% FIXTURE
0-30	68.9	55.6%
0-40	93.3	75.3%
0-60	116.1	93.6%
60-90	7.9	6.4%
0-90	124.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
2.0'	19.75		0.7'	0.8'
4.0'	4.94		1.5'	1.6'
6.0'	2.19		2.2'	2.4'
8.0'	1.23		3.0'	3.2'
10.0'	0.79		3.7'	4.1'
■ Vert. Spread: 21.2° ■ Hor. Spread: 22.9°				

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

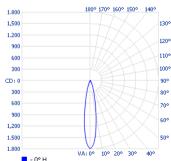
ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6%
0-40	297.5	96.3%
0-60	306.9	99.3%
60-90	2.1	0.7%
70-100	0.3	0.1%
90-120	0	0%
0-90	309.0	100%
90-180	0	0%
0-180	309.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH
1.7'	622		0.6'
3.3'	165		1.1'
5.0	71.8		1.7'
6.7	40.0		2.3'
8.3	26.1		2.8'
10.0	18.0		3.4'
■ Ver	t. Spread: 19.3	1 °	

PAR18-06-12V4WLJ • 429.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM \	NIDTH
1.7'	402		0.8'	8.2'
3.3'	107		1.6'	16.4'
5.0	46.4		2.4'	24.6'
6.7	25.9		3.2'	32.8'
8.3	16.9		3.9'	41.0'
10.0	11.6		4.7'	49.2'
■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°				

¹ Complete IES files available on our website.

AimLite RMSM • REV. 2023-11-8 т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym

Catalog Number:

~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

SR

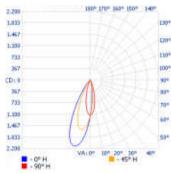
ML&C24-119319

RMSM

PHOTOMETRIC DATA¹

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7%
0-40	595.7	90.9%
0-60	637.2	97.2%
60-90	18.0	2.8%
0-90	655.3	100%

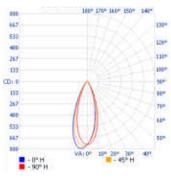
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH		
1.7'	396		0.9'	0.9'
3.3'	105		1.7'	1.7'
5.0	45.8		2.5'	2.6'
6.7	25.5		3.4'	3.5'
8.3	16.6		4.2'	4.3'
10.0	11.5		5.1'	5.2'

■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9%
0-40	182.0	79.6%
0-60	214.8	93.9%
60-90	13.9	6.1%
70-100	4.1	1.8%
90-120	0	0%
0-90	228.7	100%
90-180	0	0%
0-180	228.7	100%

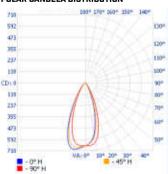
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM WIDTH
1.7'	168	1.1'
3.3'	44.5	2.1'
5.0	19.4	3.2'
6.7	10.8	4.3'
8.3	7.04	5.3'
10.0	4.85	6.4'

■ Vert. Spread: 35.4°

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	352.6	80%
0-40	391.8	88.9%
0-60	427.2	96.9%
60-90	13.5	3.1%
70-100	4.3	1%
90-120	0	0%
0-90	440.7	100%
90-180	0	0%
0-180	440.7	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	407		0.9'	1.0'
3.3'	108		1.7'	1.9'
5.0	47.0		2.6'	2.8'
6.7	26.2		3.5'	3.8'
8.3	17.1		4.3'	4.7'
10.0	11.8		5.2'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: : 31.7°				

¹ Complete IES files available on our website.

AimLite

RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374

1,067

1,339 1.600

Job Name:

Catalog Number:

~RMSM1-06-12V3WLJ-WHT

Notes:

Type:

SR

ML&C24-119319

RMSM

PHOTOMETRIC DATA¹

MR16-12-24V6WLA • 508.7 LM POLAR CANDELA DISTRIBUTION

186° 170° 060° 150° 140° LEED 1,355 1308 1.697 1204 1100 538 267 D) P 267 539

VA: 0° 18° 20° 36° 6 - 45° H

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	407.0	80%
0-40	452.3	88.9%
0-60	493.1	96.9%
60-90	15.6	3.1%
70-100	4.9	1%
90-120	0	0%
0-90	508.7	100%
90-180	0	0%
0-180	508.7	100%

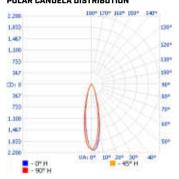
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM	WIDTH
1.7'	470		0.9'	1.0'
3.3'	125		1.7'	1.9'
5.0	54.3		2.6'	2.8'
6.7	30.2		3.5'	3.8'
8.3	19.7		4.3'	4.7'
10.0	13.6		5.2'	5.7'

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

MR16-12-24V7WLA • 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZUNE	LUMENS	% FIXTURE
0-30	508.2	80%
0-40	564.7	88.9%
0-60	615.7	96.9%
60-90	19.5	3.1%
70-100	6.1	1%
90-120	0	0%
0-90	635.2	100%
90-180	0	0%
0-180	635.2	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM	WIDTH
1.7'	587	0.9'	1.0'
3.3'	156	1.7'	1.9'
5.0	67.8	2.6'	2.8'
6.7	37.8	3.5'	3.8'
8.3	24.6	4.3'	4.7'
10.0	16.9	16.9'	5.7'

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.



HDSB - Glenview Public School Gym

Catalog Number: ~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

DR

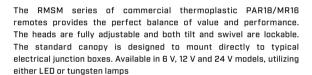
ML&C24-119319



Type AimLite

RMSM PAR18/MR16 MINI REMOTE

PLASTIC CONSTRUCTION SINGLE, DOUBLE, TRIPLE, OR QUAD 6 V, 12 V & 24 V LAMPS LED. & TUNGSTEN





- · UV stabilized, high impact thermoplastic, composite head construction
- Fully adjustable both tilt and swivel
- 5" diameter thermoplastic canopy standard
- Two surface canopy mounting holes designed to match standard electrical junction boxes
- White color is standard. black is optional

- Variety of lamp options:
- 6 V DC, 12 V DC or 24 V DC
- Tungsten lamps
- LED lamps
- AimLite's LED current technology ensures the lumens output remains constant throughout the battery's discharge whether at 6 V, 12 V, or 24 V applications.





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X	Reviewed
	Not Reviewed

Reviewed As Noted
Revise and Resubmit

NUCLEUS

· This unit can be connected to Nucleus's smart battery unit. Please view the Nucleus brochure for more details on this technology.

APPROVALS

- CSA Certified to C22.2 #141-15
- · Meets requirements of ICES-005

OVERVIEW				
LIGHT SOURCE	LED OR INCANDESCENT	DC VOLTAGE (V DC)	6, 12, 24	
NUCLEUS COMPATIBLE	QUICKSHIP LED	© ICES ODS		

1/7

For complete warranty details, please see our terms and conditions on our website.

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AimLite

RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374



Catalog Number: ~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

DR

ML&C24-119319

RMSM

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Remote head shall be [] V, [] W, [] lumens, fully adjustable for maximum spacing, injection molded, impact resistant, flame retardant thermoplastic. The LED's, lens and circuit boards shall be fully integrated in the molded shell to ensure extended life and maximum performance. Fixture shall be supplied with a canopy for installation on any four-inch octagon box. The remote fixtures shall be certified to CSA 22.2 No.141-15 and be ICESOD5 compliant. The remote unit shall be Aimlite model: RMSM.

AimLite RMSM • REV. 2023-11-8 т 514 227-1288 TF 1866 348-2374 aimlite.com



Catalog Number: ~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

DR

ML&C24-119319

RMSM

QUICK SHIP ORDERING GUIDE



PART NO	DC VOLTS (V DC)	NBR OF HEADS	HEAD	LAMP [W]	LIGHT SOURCE	COLOR
RMSM1-06V2WLJWHT	6	1	RMSM	2	LED	WHITE
RMSM1-12V2WLJWHT	12	1	RMSM	2	LED	WHITE
RMSM1-06-12V3WLJ	6-12	1	RMSM	3	LED	WHITE
RMSM1-06-12V4WLJ	6-12	1	RMSM	4	LED	WHITE
RMSM1-06V09WT	6	1	RMSM	9	TUNGSTEN	WHITE
RMSM1-12V09WT	12	1	RMSM	9	TUNGSTEN	WHITE
RMSM1-24V09WT	24	1	RMSM	9	TUNGSTEN	WHITE
RMSM2-06V2WLJWHT	6	2	RMSM	2	LED	WHITE
RMSM2-12V2WLJWHT	12	2	RMSM	2	LED	WHITE
RMSM2-06-12V3WLJ	6-12	2	RMSM	3	LED	WHITE
RMSM2-06-12V4WLJ	6-12	2	RMSM	4	LED	WHITE
RMSM2-06V09WT	6	2	RMSM	9	TUNGSTEN	WHITE
RMSM2-12V09WT	12	2	RMSM	9	TUNGSTEN	WHITE
RMSM2-24V09WT	24	2	RMSM	9	TUNGSTEN	WHITE

QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

ORDERING GUIDE - LED

RMSM		-				1
SERIES	NBR OF HEADS	VOLTS (V DC OPERATIONAL)	WATTAGE (W)	LAMP TYPE	COLOR	OPTIONS
RMSM	1 - SINGLE HEAD 2 - DOUBLE HEAD 3 - TRIPLE HEAD 4 - QUAD HEAD (REQUIRE 12" DIA. CANOPY)	06-12 V - 6 TO 12 12-24 V - 12 TO 24 24 V - 24	3W - 3 4W - 4 5W - 5 6W - 6 7W - 7 4W - 4	LJ - LED LA - LED LR - LED	WHT - WHITE (STANDARD) BLK - BLACK	LCP, VDR, WGD
	1 - SINGLE HEAD	NUC - NUCLEUS DRIVER	5W - 5	LA - LED	-	
	2 - DOUBLE HEAD	NUC - NUCLEUS DRIVER	2.5W - 2.5 5W - 5	LJ - LED		

ORDERING GUIDE - INCANDESCENT

RMSM		-			1
SERIES	NBR OF HEADS	VOLTS (V DC)	LAMP	COLOR	OPTIONS
RMSM	1 - SINGLE HEAD 2 - DOUBLE HEAD 3 - TRIPLE HEAD 4 - QUAD HEAD (REQUIRE 9.53"DIA. CANOPY)	06V - 6 12V - 12 24V - 24	SEE LAMP SELECTION CHART BELOW	WHT - WHITE (STANDARD) BLK - BLACK	LCP - LESS CANOPY WGD - WIREGUARD (ORDER SEPARATELY)

AimLite RMSM • REV. 2023-11-8 т 514 227-1288 TF 1866 348-2374 aimlite.com

Catalog Number:

~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

ML&C24-119319

DR

RMSM

LAMP SELECTION - INCANDESCENT

PAR18 · SMALL HEAD	6 V	12 V	24 V
QUARTZ HALOGEN		10WQ	
TUNGSTEN	D9WT	9WT	9WT, 18WT

WIREGUARD1

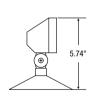
	PART NUMBER	DIMENSIONS (IN)
1 HEAD	WGD550-V2	11 X 8.75 X 6.75
2 HEADS	WGD630	12 X 9 X 9

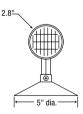
¹ Please contact AimLite customer service representative for more information

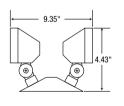
PHOTOMETRY PERFORMANCE

LED		LUMEN OUTPUT (LM)	LM/W	CCT	BEAM ANGLE (°)
2W	LJ	216	63	5000	20
2.5W (NUCLEUS)	LJ	254	102	5000	20
ЗW	LJ	313	104	5000	20
4W	LJ	429	107	5000	28
5W (NUCLEUS)	LJ	473	95	5000	28
5W	LJ	591	118	5000	28
4W	LR	320	80	5000	24
5W	LA	438	87	5000	24
6W	LA	505	84	5000	24
7W	LA	631	90	5000	24

DIMENSIONS





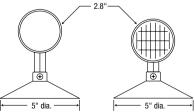


LEXAN GUARD

	PART NUMBER	DIMENSIONS (IN)
1 HEAD	PGD103	7 X 7.25 X 8.5
2 HEADS	PGD104	14 X 7.25 X 7.5
3 HEADS	PGD104	14 X 7.25 X 7.5

LED

Submitted On: Jul 10, 2024



AimLite RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym

Catalog Number:

~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

ML&C24-119319

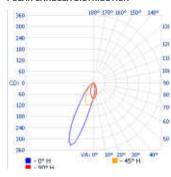
DR

RMSM

PHOTOMETRIC DATA¹

PAR18-6V2WLJ • 124.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

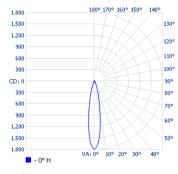
ZONE	LUMENS	% FIXTURE
0-30	68.9	55.6%
0-40	93.3	75.3%
0-60	116.1	93.6%
60-90	7.9	6.4%
0-90	124.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
2.0'	19.75		0.7'	0.8'
4.0'	4.94		1.5'	1.6'
6.0'	2.19		2.2'	2.4'
8.0'	1.23		3.0'	3.2'
10.0'	0.79		3.7'	4.1'
■ Vert. Spread: 21.2° ■ Hor. Spread: 22.9°				

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

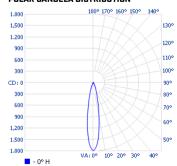
ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6%
0-40	297.5	96.3%
0-60	306.9	99.3%
60-90	2.1	0.7%
70-100	0.3	0.1%
90-120	0	0%
0-90	309.0	100%
90-180	0	0%
0-180	309.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH
1.7'	622		0.6'
3.3'	165		1.1'
5.0	71.8		1.7'
6.7	40.0		2.3'
8.3	26.1		2.8'
10.0	18.0		3.4'
■ Ver	rt. Spread: 19.3	3°	

PAR18-06-12V4WLJ • 429.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM \	NIDTH
1.7'	402		0.8'	8.2'
3.3'	107		1.6'	16.4'
5.0	46.4		2.4'	24.6'
6.7	25.9		3.2'	32.8'
8.3	16.9		3.9'	41.0'
10.0	11.6		4.7'	49.2'
■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°				

¹ Complete IES files available on our website.

AimLite

RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym

Catalog Number:

~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

DR

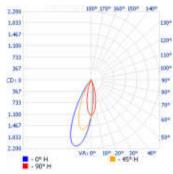
ML&C24-119319

RMSM

PHOTOMETRIC DATA¹

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7%
0-40	595.7	90.9%
0-60	637.2	97.2%
60-90	18.0	2.8%
0-90	655.3	100%

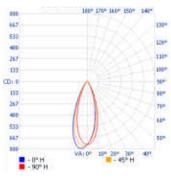
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM	WIDTH
1.7'	396	0.9'	0.9'
3.3'	105	1.7'	1.7'
5.0	45.8	2.5'	2.6'
6.7	25.5	3.4'	3.5'
8.3	16.6	4.2'	4.3'
10.0	11.5	5.1'	5.2'

■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9%
0-40	182.0	79.6%
0-60	214.8	93.9%
60-90	13.9	6.1%
70-100	4.1	1.8%
90-120	0	0%
0-90	228.7	100%
90-180	0	0%
0-180	228.7	100%

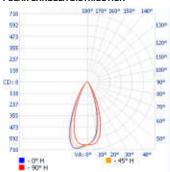
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM WIDTH
1.7'	168	1.1'
3.3'	44.5	2.1'
5.0	19.4	3.2'
6.7	10.8	4.3'
8.3	7.04	5.3'
10.0	4.85	6.4'

■ Vert. Spread: 35.4°

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	352.6	80%
0-40	391.8	88.9%
0-60	427.2	96.9%
60-90	13.5	3.1%
70-100	4.3	1%
90-120	0	0%
0-90	440.7	100%
90-180	0	0%
0-180	440.7	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	407		0.9'	1.0'
3.3'	108		1.7'	1.9'
5.0	47.0		2.6'	2.8'
6.7	26.2		3.5'	3.8'
8.3	17.1		4.3'	4.7'
10.0	11.8		5.2'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: : 31.7°				

¹ Complete IES files available on our website.

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RMSM • REV. 2023-11-8

т 514 227-1288

TF 1866 348-2374

Catalog Number:

~RMSM2-06-12V3WLJ-WHT

Notes:

Type:

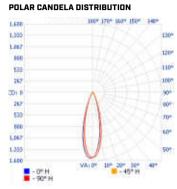
ML&C24-119319

DR

RMSM

PHOTOMETRIC DATA¹

MR16-12-24V6WLA • 508.7 LM



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	407.0	80%
0-40	452.3	88.9%
0-60	493.1	96.9%
60-90	15.6	3.1%
70-100	4.9	1%
90-120	0	0%
0-90	508.7	100%
90-180	0	0%
0-180	508.7	100%

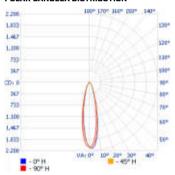
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	470		0.9'	1.0'
3.3'	125		1.7'	1.9'
5.0	54.3		2.6'	2.8'
6.7	30.2		3.5'	3.8'
8.3	19.7		4.3'	4.7'
10.0	13.6		5.2'	5.7'
—				

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

MR16-12-24V7WLA • 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZUNE	LUMENS	% FIX I URE
0-30	508.2	80%
0-40	564.7	88.9%
0-60	615.7	96.9%
60-90	19.5	3.1%
70-100	6.1	1%
90-120	0	0%
0-90	635.2	100%
90-180	0	0%
0-180	635.2	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC BEAM WIDTH			WIDTH	
1.7'	587		0.9'	1.0'
3.3'	156		1.7'	1.9'
5.0	67.8		2.6'	2.8'
6.7	37.8		3.5'	3.8'
8.3	24.6		4.3'	4.7'
10.0	16.9		16.9'	5.7'

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: ~WGD630-V2

Notes:

Type:

DR-WG

Contractor:

MI &C24-119319

WGD

Project:

WIREGUARD & MOUNTING SHELVES

WIREGUARD

The AimLite series of steel wire guards is designed to protect valuable emergency lighting equipment from datasance and the integrated mounting loops ensure a reliable installating. Standard finish in white bakes powder coat drish in white bakes powder coat drish





MECHANICAL ELECTRICAL AQUATIC

পিছি পুথাই। এটা ওরার্ডপরার প্রচার প্রচার প্রচার প্রচার প্রচার প্রচার প্রচার প্রচার পর করে।

করি করে বিশ্বর বিশ্ব

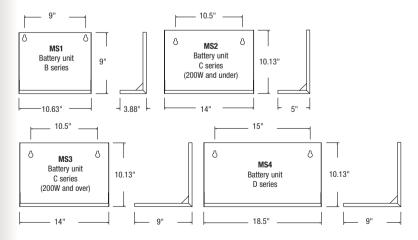
X	Reviewed
	Not Reviewed

	Reviewed As Noted
٦	Revise and Resubmit

Model	Length	Width	Depth	Description
WGD510	17.25"	17.25"	7"	Battery units 144W to 200W
WGD520	14"	10"	4.75"	Battery units 18W to 72W, wallmount EXST & EXAL
WGD540	14.5"	6.25"	10.5"	Ceiling mount EXST & EXAL
WGD550	8.5"	6"	7"	RMS1, RMS2, RMMD1, RMMD2, RMMB1 & RMMB2
WGD560	25.5"	8.5"	8"	Wallmount EXST & EXAL
WGD590	15.25"	14.25"	6.75"	Battery units 80W to 100W, wallmount CXST & CXAL
WGD600	20.25"	17.25"	8.5"	Battery units 250W to 720W
WGD620	8.5"	6"	8.5"	Remotes RMLG1, RMLW1, RMRB1
WGD630	12"	9"	9"	Remotes RMLG2, RMLW2, RMRB2
WGD660	13.75"	12.25"	16.5"	End mount EXST & EXAL, ceiling or end mount CXST & CXAL
WGD680	29.5"	6.5"	10"	Ceiling or wallmount EXST-B6L, EXAL-B6L, VP4

MOUNTING SHELVES

The AimLite series of steel mounting shelves provides a stable and durable platform for the installation of emergency lighting units. The shelves are made with heavy gauge steel and finished standard with a white baked powder coat finish. Custom colours are available, please contact your AimLite representative for details.





HDSB - Glenview Public School Gym

Catalog Number: CARPW12361M-2SM3WLJWHT/ ATD WIRE GUARD Notes:

Type: CU





CARPW ALUMINUM COMBO NBC2015 COMPLIANT

The CARPW series of commercial combination extruded signs and battery units features a fully modern appearance. The extruded aluminum design provides for a rigid, durable and lightweight sign. Two PAR18 small style, front mounted heads are standard, MR16 type are optional. Available with either 6 V DC or 12 V DC.



FEATURES & SPECIFICATIONS

CIRCUITRY

- · LED ultra bright light source
- 120/347 V AC field selectable. or 277 V AC
- 1.8 W power consumption for LED exit portion of combination sign
- LED Emergency DC wattages as follows: 6 V DC = 0.9 W 12 V DC = 0.86 W
- Wattage capacities from 36 to 72 W
- 30 minutes emergency power duration standard

- · Momentary push button test switch
- Pilot LEDs for AC ON and CHARGE
- Fully automatic, constant voltage current limited charger
- Solid state design and construction with brownout and short circuit protection
- Temperature compensated
- Maintenance free, sealed lead acid battery

MECHANICAL

- Extruded aluminum construction
- Slide in/out captive faceplate(s) and backplate for rapid and simplified installation
- Universal spider knockout pattern stamped into backplate for junction box mounting
- Universal models include ceiling or end mount, field installable canopy kit c/w spider plate
- · Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and colors optional
- Front head mounted is standard, side mount is optional

COMPLIANCES

- · CSA Certified to C22.2 #141-15
- · CSA Certified to C860-11
- Meets requirements of ICES-005

OVERVIEW			
LIGHT SOURCE	LED	SIGN DC VOLTAGE/WATTAGE	6 V DC = 0.9 12 V DC = 0.86
INPUT VOLTAGE (V AC)	120/347, 277	OUTPUT VOLTS (V DC)	6, 12
SIGN POWER CONSOMPTION	120 V = 1.80 W 347 V = 1.70 W 277 V = 1.40 W	POWER CAPACITY (W)	T Consulting
LED GOS OUS	Sherpy-verified Energy-verified Energy-verified	MECHA	Engineers

Data is based upon tests performed in a controlled environment. Actual performances Gan Yerk depending on onestably in an environment of the responsibility

AimLite

CARPW • REV. 31/1/2023

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent For complete warranty details, please see our terms and conditions on our websitein the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his All products are subject to change or may be discontinued any time without notice for meeting all requirements of the construction and contract documents.

X	Reviewed
Г	Not Reviewed

Reviewed As Noted	
Revise and Resubmit	



HDSB - Glenview Public School Gym

Catalog Number: CARPW12361M-2SM3WLJWHT/ ATD WIRE GUARD Notes:

Type: CU

ML&C24-119319

CARPW

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite's Extruded CARPW Running Man and Battery combination unit. The sign shall be Extruded Aluminum Running Man Exit Signs. The sign shall operate with AC/DC field selectable 120/277/347 V AC. The face shall be illuminated by using Nichia LED ultra-bright light source. The sign shall be suitable for wall, end, or ceiling mount and come complete with 3 Running Man fibers for universal direction. The sign shall be CSA C22.2 141-15 and ICES complaint. The battery unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable 18-gauge steel and be CSA listed to C22.2 141-15 and be ICES 005 compliant. The unit shall have an output of: __V and __W and come complete with (0), (1) or (2) x __W LED heads producing $(_)$ lumens each. The charge voltage factory set to \pm 1% tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery at full voltage. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

The Aimlite Sign and Battery combination unit shall be CARPW _

AimLite т 514 227-1288 CARPW • REV. 31/1/2023 TF 1866 348-2374 aimlite.com

Catalog Number: ~CARPW12361M-2SM3WLJWHT/ ATD WIRE GUARD Notes:

Type:

ML&C24-119319

CU

CARPW

ORDERING GUIDE

CARPW				_						
SERIES	VOLTS (V)	WATTS [W]	NBR OF FACES	MILINTING	NBR OF HEADS	HEAD/LAMP	LAMP	COLOR	INPUT VOLTAGE (V AC)	OPTIONS
CARPW		036 - 36 050 - 50 036 - 36 050 - 50 072 - 72	1 - SINGLE FACE 2 - DOUBLE FACE	M - UNI- VER- SAL	HEADS 1- ONE HEADS	LG- PAR36	SEE LAMP SELECTION CHART BELOW	WHT - WHITE BLK - BLACK GRY - GREY		ATD AUD', AUE, LPO, RDS, SMH, TDL' 0 - NO INDICATORS (DOUBLE FACE ONLY) \$\psi\$ \$\psi
¹Only ava	ilable wi	th ATD.				I			1	

OPTIONS

	DESCRIPTION			DESCRIPTION
ATD	AUTOMATIC TEST SELF-DIAGNOSTIC		RDS	RADIO FREQUENCY SUPPRESSION
AUD	AUDIBLE ALARM		SMH	SIDE MOUNTED HEADS
AUE	AUDIBLE EMERGENCY		TDL	TIME DELAY
LPD	LAMP DISCONNECT (INTERNAL)			

LAMP SELECTION

	6 V	12 V	
PAR18 - Small head			
LED	3WLJ, 4WLJ, 5WLJ	3WLJ, 4WLJ, 5WLJ, 6WLA, 7WLA	
Quartz halogen		10WQ	
Tungsten	09WT	D9WT	
MR16 - Small head c/w MR16			
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	
Quartz halogen	10WQ	10WQ, 35WQ	

LUMEN TABLE

WATTS	LUMENS
3W LJ	313
4W LJ	388
5W LJ	590
4W LR	388
5W LA	435
6W LA	507
7W LA	652

MODEL RATINGS

MODEL	VOLTS	WATTAGE CAPACITIES [W]			
MODE	(V)	30 MIN.	60 MIN.	90 MIN.	120 MIN.
CARPW0636		36	18	12	9
CARPW0650	6	50	25	16	12
CARPW1236		36	18	12	9
CARPW1250	12	50	25	16	12
CARPW1272		72	36	24	18

LEXAN GUARD

	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	PGD111	19.75 X 14 X 8
CEILING MOUNT	PGD100	16 X 10 X 13.5

WIREGUARD1

		PART NUMBER	DIMENSIONS (IN)			
WITHOUT HEAD	WALL MOUNT	WGD590-V2	16.75 X 17.75 X 6.5			
	CEILING MOUNT	WGD650-V2	17.75 X 17.75 X 16.50			
	END MOUNT	WGD650-V2	17.75 X 17.75 X 16.50			
WITH HEAD(S)	WALL MOUNT	WGD510-V2	19.75 X 19.75 X 7.25			
	CEILING MOUNT	WGD650-V2	17.75 X 17.75 X 16.50			
	END MOUNT	WGD650-V2	17.75 X 17.75 X 16.50			

¹ Please contact your AimLite customer service representative for more information.

SELECT WIRE GUARD

ADVISE EITHER
WALL, CEILING OR END MOUNT

AimLite

CARPW • REV. 31/1/2023

т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym

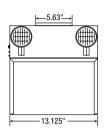
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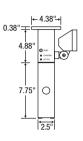
Type: CU

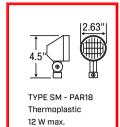
ML&C24-119319

CARPW

DIMENSIONS













TYPE MB - MR16 35 W max.

CONFIGURATIONS







Comes standard (single face) with three pictogram legends for direction selection.





Comes standard (double face) with two pictogram legends.





For double face no arrow options, select "O" on the options column.

PHOTOMETRIC DATA¹

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION 180° 170° 160° 150° 140° 1.800 1,500 130° 1.200 120° 900 110° 600 300 100° CD: 0 300 600 700 900 1,200 1.500 1.800 VA: 0° 10° 20° 30° - 0° H

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6%
0-40	297.5	96.3%
0-60	306.9	99.3%
60-90	2.1	0.7%
70-100	0.3	0.1%
90-120	0	0%
0-90	309.0	100%
90-180	0	0%
0-180	309.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH	
1.7'	622		0.6'	
3.3'	165		1.1'	
5.0	71.8		1.7'	
6.7	40.0		2.3'	
8.3	26.1		2.8'	
10.0	18.0		3.4'	
■ Beam. Spread: 19.3°				

AimLite

CARPW • REV. 31/1/2023

т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.

HDSB - Glenview Public School Gym

Catalog Number: ~CARPW12361M-2SM3WLJWHT/ ATD WIRE GUARD Notes:

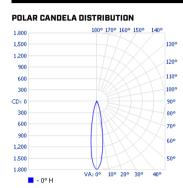
Type: CU

ML&C24-119319

CARPW

PHOTOMETRIC DATA¹

PAR18-06-12V4WLJ • 429.5 LM



ZUNAL LIIMEN SIIMMARV

ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

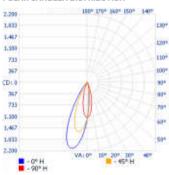
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH		
1.7'	402		0.8'	8.2'	
3.3'	107		1.6'	16.4'	
5.0	46.4		2.4'	24.6'	
6.7	25.9		3.2'	32.8'	
8.3	16.9		3.9'	41.0'	
10.0	11.6		4.7'	49.2'	

■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7%
0-40	595.7	90.9%
0-60	637.2	97.2%
60-90	18.0	2.8%
0-90	655.3	100%

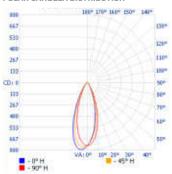
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	396		0.9'	0.9'
3.3'	105		1.7'	1.7'
5.0	45.8		2.5'	2.6'
6.7	25.5		3.4'	3.5'
8.3	16.6		4.2'	4.3'
10.0	11.5		5.1'	5.2'
		20 - 11 - 2		40

■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9%
0-40	182.0	79.6%
0-60	214.8	93.9%
60-90	13.9	6.1%
70-100	4.1	1.8%
90-120	0	0%
0-90	228.7	100%
90-180	0	0%
0-180	228.7 100%	

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH	
1.7'	168		1.1'	
3.3'	44.5		2.1'	
5.0	19.4		3.2'	
6.7	10.8		4.3'	
8.3	7.04		5.3'	
10.0	4.85		6.4'	
■ Beam. Spread: 35.4°				

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т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.

HDSB - Glenview Public School Gym

Catalog Number: ~CARPW12361M-2SM3WLJWHT/ ATD WIRE GUARD Notes:

Type:

ML&C24-119319

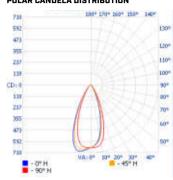
CU

CARPW

PHOTOMETRIC DATA¹

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	352.6 80%	
0-40	391.8	88.9%
0-60	427.2	96.9%
60-90	13.5	3.1%
70-100	4.3	1%
90-120	0	0%
0-90	440.7	100%
90-180	0	0%
0-180	440.7	100%

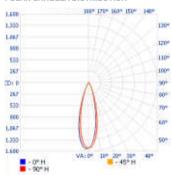
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH	
1.7'	407		0.9'	1.0'	
3.3'	108		1.7'	1.9'	
5.0	47.0		2.6'	2.8'	
6.7	26.2		3.5'	3.8'	
8.3	17.1		4.3'	4.7'	
10.0	11.8		5.2'	5.7'	
- \/-	West Council 20 00 Up 10 Council 21 70				

Vert. Spread: 29.3° Hor. Spread: 31.7

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	407.0	80%
0-40	452.3	88.9%
0-60	493.1	96.9%
60-90	15.6	3.1%
70-100	4.9	1%
90-120	0	0%
0-90	508.7	100%
90-180	0	0%
0-180	508.7	100%

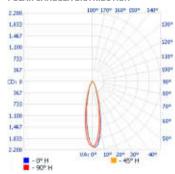
ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM	WIDTH
1.7'	470	0.9'	1.0'
3.3'	125	1.7'	1.9'
5.0	54.3	2.6'	2.8'
6.7	30.2	3.5'	3.8'
8.3	19.7	4.3'	4.7'
10.0	13.6	5.2'	5.7'

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

MR16-06-24V7WLA · 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	508.2	80%
0-40	564.7	88.9%
0-60	615.7	96.9%
60-90	19.5	3.1%
70-100	6.1	1%
90-120	0	0%
0-90	635.2	100%
90-180	0	0%
0-180	635.2	100%

ILLUMINANCE AT A DISTANCE

CENT	CENTER BEAM FC BEAM WIDTH					
1.7'	587		0.9'	1.0'		
3.3'	156		1.7'	1.9'		
5.0	67.8		2.6'	2.8'		
6.7	37.8		3.5'	3.8'		
8.3	24.6		4.3'	4.7'		
10.0	16.9		16.9'	5.7'		
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°						

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¹ Complete IES files available on our website.



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

ML&C24-119319

BU



EBST STEEL BATTERY UNIT

The EBST series of commercial steel battery units is designed to provide efficient and reliable emergency lighting. Utilizing a sturdy, all steel housing, the EBST presents a modern and unobtrusive design. On higher capacity models, the cabinet front is sloped to allow better internal access and superior low angle light distribution. The EBST series is available in 6 V DC, 12 V DC and 24 V DC versions in a range of wattage capacities between 18 and 720W. for 30 minutes duration.



Units are typically supplied with two top mounted PAR18, however a wide range of head type, number and placement are available including MR16 type. The EBST can also accommodate a wide variety of options, including auto-testing self-diagnostics and remote testing.

FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347 or 277 V AC 60 Hz Input
- 6 V DC, 12 V DC or 24 V DC emergency power output versions (as specified)
- Wattage capacities from 18 to 720 W
- 30 Minutes emergency power duration standard
- Momentary push button test switch
- Diagnostic/pilot LEDs for AC ON and CHARGE
- Maintenance free, sealed lead acid battery
- Optional automatictesting, self-diagnostic charger board

MECHANICAL

- Rugged steel cabinet with ultraguard rust-coating
- 120 V AC line cord supplied standard
- Universal spider knockout pattern and keyhole mounting slots stamped into back of cabinet
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and colors optional
- Lamp heads include PAR18/ MR16 small style, die cast metal MR16 type, and high outout industrial type
- Top head mounting is standard, side mount is optional

COMPLIANCES

- Meets requirements of ICES-005
- CSA Certified to C22.2 #141-15

OVERVIEW	
INPUT VOLTAGE (V AC)	120/347, 277
OUTPUT VOLTAGE (V DC)	6, 12, 24
OUTPUT POWER (W)	UP TO 720
BRIDGE EMERGENCY LIGHTING LUMINAIRE REMOTE NORMALLY ON	CES (F)®

For complete warranty details, please see our terms and conditions on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

AimLite

EBST • REV. 2024-2-26

т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym Addition

Addition Engineer: DEI & Associates (Waterloo) Catalog Number:

-.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

BU

ML&C24-119319

EBST

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite EBST. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable 18 gauge steel and be CSA listed to C22.2 141-15 and be ICES 005 compliant. The unit shall have an output of: __V and __W and come complete with (0), (1) or (2) x _ W LED heads producing (__) lumens each. The charge voltage factory set to \pm 1% tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery at full voltage. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The Aimlite battery shall come complete with an auto diagnostic micro-controller board and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The Aimlite battery unit shall come complete with the Auto Test function. The automated testing performed by the Aimlite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements. The unit shall be Aimlite model:



Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

ML&C24-119319

BU

EBST

QUICK SHIP ORDERING GUIDE



PART NUMBER	DC VOLTS (V DC)	WATTS [W]	NBR OF HEADS	HEAD	LAMP (W)	LIGHT SOURCE	INPUT VOLTS [V AC]	COLOR
EBST-1L	6	27	2	SM	2	LED	120/347	WHITE
EBST-2L	6	36	2	SM	2	LED	120/347	WHITE
EBST-3L	6	36	2	SM	3	LED	120/347	WHITE
EBST12-2L	12	72	2	SM	2.5	LED	120/347	WHITE
EBST06036-2SM09T	6	36	2	SM	9	TUNGSTEN	120/347	WHITE
EBST06072-2SM09T	6	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12036-2SM09T	12	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12072-2SM09T	12	72	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12100-2SM09T	12	100	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12160-2SM09T	12	160	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12200-2SM09T	12	200	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12250-2SM09T	12	250	2	SM	9	TUNGSTEN	120/347	WHITE
EBST12360-2SM09T	12	360	2	SM	9	TUNGSTEN	120/347	WHITE

QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

ORDERING GUIDE

EBST		-	_				/
SERIES	VOLTS (V DC)	WATTS	HEAD/LAMP	LAMP TYPE	COLOR	INPUT VOLTAGE (V AC)	OPTIONS
EBST	06 - 6	SEE MODEL	O - NO HEADS	SEE LAMP	WHT - WHITE	BLANK - 120/347	AMP, ACT ATD, AUD¹, AUE, BTD,
	12 - 12	RATING	1SM - ONE PAR18/MR16	LIST	(STANDARD)	277 - 277	DCT, FS6, RMT, K5, LPD, NLC, RDS,
	24 - 24	BELOW	2SM - TWO PAR18/MR16	BELOW	BLK - BLACK		TDL, TLP ² , VDR, VLT
			3SM - THREE PAR18/MR16		GRY - GREY		
			1MD - ONE MR16				
			2MD - TWO MR16				
			3MD - THREE MR16				
			1MB - ONE MR16				
			2MB - TWO MR16				
			3MB - THREE MR16				
			1HO - ONE INDUSTRIAL				
			2HO - TWO INDUSTRIAL				

¹Only available with AT

OPTIONS

	DESCRIPTION		DESCRIPTION
АМР	AMMETER	K5	1/2" KNOCKOUT FOR PENDANT MOUNT
ACT ¹	AC TERMINAL BLOCK (LINE CORD DELETE)	LPD	LAMP DISCONNECT (INTERNAL)
ATD ²	AUTOMATIC TEST SELF-DIAGNOSTIC	NLC	OCTAGON BOX MOUNT (LINE CORD DELETE)
AUD ³	AUDIBLE ALARM	RDS	RADIO FREQUENCY SUPPRESSION
AUE	AUDIBLE EMERGENCY	TDL	TIME DELAY
BTD	BATTERY DISCONNECT	TLP ¹	TWIST LOCK PLUG
DCT	DC TERMINAL BLOCK	VDR	TAMPER PROOF SCREWS
FS6	6 CIRCUIT FUSED INTERNAL DISTRIBUTION	VLT	VOLTMETER
RMT	INFRARED REMOTE TEST		

¹ ACT & TLP are incompatible together.

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² Only available in 120 VAC

 $^{^{2}}$ ATD features may overlap with the following options: VLT, TDL, AMP & RDS. Contact customer service for more information.

³ Only available with ATD.

Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

LUMEN TABLE

WATTS 3W LJ

4W LJ

5W LJ

4W LR

5W LA

6W LA 7W LA

Notes:

Type:

BU

ML&C24-119319

EBST

LUMENS

313

388

590

388

435

652

WIREGUARD

		PART NUMBER	DIMENSIONS (IN)
WITHOUT HEAD	CABINET 1	WGD520-V2	15.75 x 11.5 x 4.5
	CABINET 2	WGD520-V2	15.75 x 11.5 x 4.5
	CABINET 3	WGD590-V2	16.75 x 17.75 x 6.5
	CABINET 4	WGD650-V2	17.75 x 17.75 x 16.50
	CABINET 5	WGD600-V2	23 x 20 x 12
WITH HEAD(S)1	CABINET 1	WGD590-V2	16.75 x 17.75 x 6.5
	CABINET 2	WGD590-V2	16.75 x 17.75 x 6.5
	CABINET 3	WGD590-V2	16.75 x 17.75 x 6.5
	CABINET 4	WGD650-V2	17.75 x 17.75 x 16.50
	CABINET 5	WGD600-V2	23 x 20 x 12

¹ For HO heads, please contact your customer service representative for more information.

LEXAN GUARD

MOUNTING TYPE	NUMBER OF HEADS	INPUT VOLTAGE	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	1,2	12V036W	PGD107	14.5x11.25x5.5
	,	12V050W	PGD107	14.5x11.25x5.5
		12V072W	PGD107	14.5x11.25x5.5
		12V160W	PGD111	19.75x14x8
		12V200W	PGD111	19.75x14x8
		24V144W	PGD111	19.75x14x8
		24V200W	PGD111	19.75x14x8

MOUNTING TYPE	NUMBER OF HEADS	INPUT VOLTAGE	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	0	06V018W	PGD107	14.5x11.25x5.5
		06V036W	PGD107	14.5x11.25x5.5
		06V050W	PGD107	14.5x11.25x5.5
		06V072W	PGD107	14.5x11.25x5.5
		06V100W	PGD107	14.5x11.25x5.5
		06V160W	PGD107	14.5x11.25x5.5
		06V180W	PGD107	14.5x11.25x5.5
		12V036W	PGD107	14.5x11.25x5.5
		12V050W	PGD107	14.5x11.25x5.5
		12V072W	PGD107	14.5x11.25x5.5
		12V100W	PGD107	14.5x11.25x5.5
		12V144W	PGD107	14.5x11.25x5.5
		12V160W	PGD107	14.5x11.25x5.5
		12V200W	PGD107	14.5x11.25x5.5
		24V144W	PGD107	14.5x11.25x5.5
		24V200W	PGD107	14.5x11.25x5.5

LAMP SELECTION

	6 VOLTS	12 VOLTS	24 VOLTS
PAR18 • SMALL HEAD OR LE	D LAMP		
LED	3WLJ, 4WLJ, 5WLJ	3WLJ, <mark>4WLJ, 5WLJ, 6WLA, 7WLA</mark>	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN		10WQ	
TUNGSTEN	D9WT	D9WT	09WT, 18WT
MR16 • SMALL HEAD C/W M	R16 OR LED LAMP		
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN	10WQ	20WQ, 35WQ	20WQ
INDUSTRIAL			
LED		5WLJ, 9WLJ, 14WLJ, 30WLJ	5WLJ, 9WLJ, 14WLJ, 30WLJ

Note: Due to cabinet/space limitations, not all options are available for all models in any given combination. Please consult with your factory representative regarding specific options and exact cabinet dimension information.

AimLite EBST • REV. 2024-2-26 т 514 227-1288 TF 1866 348-2374 aim**l**ite.com

HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

BU

ML&C24-119319

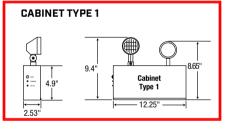
EBST

MODEL RATINGS

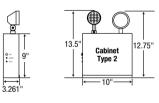
WATTAGE CAPACITIES [W] ²						
MODEL	VOLTS (V)	30 MIN.	60 MIN.	90 MIN.	120 MIN.	CABINET ¹
EBST06018	6	18	18	12	10	1
EBST06036	6	36	18	12	9	1
EBST06050	6	50	25	16	12	1
EBST06072	6	72	36	24	18	2
EBST06100	6	100	50	33	25	2
EBST06160	6	160	80	53	40	3
EBST06180	6	180	126	87	72	3
EBST12036	12	36	36	24	20	1
EBST12050	12	50	36	24	20	1
EBST12072	12	72	36	24	18	1
EBST12100	12	100	50	33	25	2
EBST12144	12	144	84	48	36	3
EBST12160	12	160	80	53	40	3
EBST12200	12	200	100	66	50	3
EBST12250	12	250	219	169	136	4
EBST12360	12	360	233	164	144	4
EBST24144	24	144	72	48	36	3
EBST24200	24	200	100	66	50	4
EBST24320	24	320	160	106	80	4
EBST24350	24	350	175	116	88	5
EBST24550	24	550	438	338	272	5
EBST24720	24	720	466	328	288	5
The size of the cabinet might change depending of the chosen ontions						



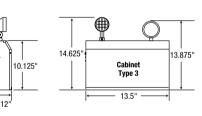
DIMENSIONS



CABINET TYPE 2

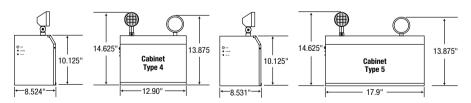


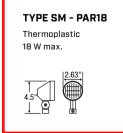
CABINET TYPE 3



CABINET TYPE 4

CABINET TYPE 5





TYPE MD - MR16

Die cast 35 W max.



TYPE MB - MR16

Die cast 35 W max.



TYPE HO - INDUSTRIAL

Die cast 14 W max.



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<sup>The size of the cabinet might change depending of the chosen options.

Please consult with your factory representative regarding exact cabinet dimension information.
It is recommanded to load battery pack 20% under their maximum load</sup>



HDSB - Glenview Public School Gym

Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

BU

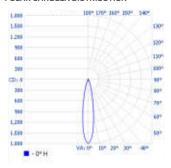
ML&C24-119319

EBST

PHOTOMETRIC DATA¹

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

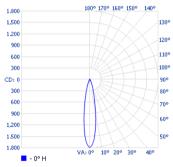
ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6%
0-40	297.5	96.3%
0-60	306.9	99.3%
60-90	2.1	0.7%
70-100	0.3	0.1%
90-120	0	0%
0-90	309.0	100%
90-180	0	0%
0-180	309.0	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH	
1.7'	622		0.6'	
3.3'	165		1.1'	
5.0	71.8		1.7'	
6.7	40.0		2.3'	
8.3	26.1		2.8'	
10.0	18.0		3.4'	
■ Beam. Spread: 19.3°				

PAR18-06-12V4WLJ • 429.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

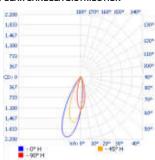
ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM \	NIDTH
1.7'	402		0.8'	8.2'
3.3'	107		1.6'	16.4'
5.0	46.4		2.4'	24.6'
6.7	25.9		3.2'	32.8'
8.3	16.9		3.9'	41.0'
10.0	11.6		4.7'	49.2'
■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°				

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7%
0-40	595.7	90.9%
0-60	637.2	97.2%
60-90	18.0	2.8%
0-90	655.3	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC BEAM WIDT				WIDTH
1.7'	396		0.9'	0.9'
3.3'	105		1.7'	1.7'
5.0	45.8		2.5'	2.6'
6.7	25.5		3.4'	3.5'
8.3	16.6		4.2'	4.3'
10.0	11.5		5.1'	5.2'
■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°				

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т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.



Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

BU

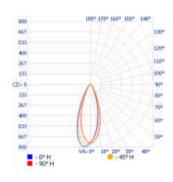
ML&C24-119319

EBST

PHOTOMETRIC DATA¹

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

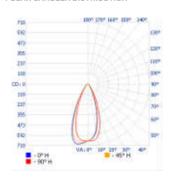
ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9%
0-40	182.0	79.6%
0-60	214.8	93.9%
60-90	13.9	6.1%
70-100	4.1	1.8%
90-120	0	0%
0-90	228.7	100%
90-180	0	0%
0-180	228.7	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH		
1.7'	168		1.1'		
3.3'	44.5		2.1'		
5.0	19.4		3.2'		
6.7	10.8		4.3'		
8.3	7.04		5.3'		
10.0	4.85		6.4'		
■ Beam. Spread: 35.4°					

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

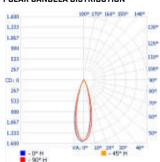
ZONE	LUMENS	% FIXTURE
0-30	352.6	80%
0-40	391.8	88.9%
0-60	427.2	96.9%
60-90	13.5	3.1%
70-100	4.3	1%
90-120	0	0%
0-90	440.7	100%
90-180	0	0%
0-180	440.7	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	407		0.9'	1.0'
3.3'	108		1.7'	1.9'
5.0	47.0		2.6'	2.8'
6.7	26.2		3.5'	3.8'
8.3	17.1		4.3'	4.7'
10.0	11.8		5.2'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE LUMENS		% FIXTURE
0-30	407.0	80%
0-40	452.3	88.9%
0-60	493.1	96.9%
60-90	15.6	3.1%
70-100	4.9	1%
90-120	0	0%
0-90	508.7	100%
90-180	0	0%
0-180	508.7	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM '	WIDTH
1.7'	470		0.9'	1.0'
3.3'	125		1.7'	1.9'
5.0	54.3		2.6'	2.8'
6.7	30.2		3.5'	3.8'
8.3	19.7		4.3'	4.7'
10.0	13.6		5.2'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

AimLite

EBST • REV. 2024-2-26

т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.



Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:



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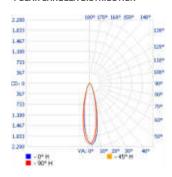
ML&C24-119319

EBST

PHOTOMETRIC DATA¹

MR16-12-24V7WLA · 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

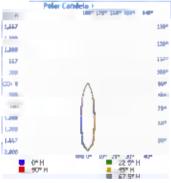
ZONE	LUMENS	% FIXTURE
0-30	508.2	80%
0-40	564.7	88.9%
0-60	615.7	96.9%
60-90	19.5	3.1%
70-100	6.1	1%
90-120	0	0%
0-90	635.2	100%
90-180	0	0%
0-180	635.2	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7'	587		0.9'	1.0'
3.3'	156		1.7'	1.9'
5.0	67.8		2.6'	2.8'
6.7	37.8		3.5'	3.8'
8.3	24.6		4.3'	4.7'
10.0	16.9		16.9'	5.7'
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

SQ-12V-5W • 642.1 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	481.0	74.9
0-40	548.2	85.4
0-60	611.0	95.1
60-90	31.1	4.8
70-100	12.2	1.9
90-120	0.0	0
0-90	642.1	100
90-180	0.1	0
0-180	642.1	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM	WIDTH	
2.0"	489.9		0.8	0.8
4.0"	122.5		1.7	1.7
6.0"	54.4		2.5	2.5
8.0"	30.6		3.3	3.4
10.0"	19.6		4.1	4.2
■ Vert. Spread: 23.4° ■ Hor. Spread: 23.8.°				

SQ-12V-9W • 1 105.1 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE		LUMENS	% FIXTURE
	0-30	835.2	75.6
	0-40	948.6	85.8
	0-60	1 051.8	95.2
	60-90	53.1	4.8
	70-100	20.9	1.9
	90-120	0.1	0
	0-90	1 104.9	100
	90-180	0.2	0
	0-180	1 105.1	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM '	WIDTH
2.0"	856.3	A	0.8	0.8
4.0"	214.1		1.7	1.6
6.0"	95.1		2.5	2.4
8.0"	53.5		3.4	3.2
10.0"	34.3		4.2	4.1
■ Vert. Spread: 23.8° ■ Hor. Spread: 22.9.°				

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EBST • REV. 2024-2-26

т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.

Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

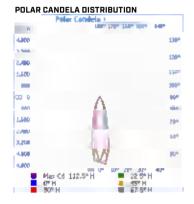
BU

ML&C24-119319

EBST

PHOTOMETRIC DATA¹

SQ-12V-14W • 1 460.7 LM



ZONAL LUMEN SUMMARY

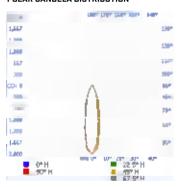
ZONE	LUMENS	% FIXTURE
0-30	1 142.6	78.2
0-40	1 289.7	88.3
0-60	1 407.8	96.4
60-90	52.7	3.6
70-100	18.7	1.3
90-120	0.0	0
0-90	1 460.6	100
90-180	0.1	0
0-180	1 460.7	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
2.0"	1143.8	A	0.8	0.8
4.0"	285.9		1.6	1.7
6.0"	127.1		2.4	2.5
8.0"	71.5		3.2	3.3
10.0"	45.8		4.0	4.2
■ Vert. Spread: 22.8° ■ Hor. Spread: 23.5°				

SQ-24V-5W • 659.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	493.6	74.9
0-40	562.7	85.4
0-60	627.1	95.2
60-90	31.8	4.8
70-100	12.4	1.9
90-120	0.0	0
0-90	658.9	100
90-180	0.1	0
0-180	659.0	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
2.0"	499.7		0.8	0.9
4.0"	124.9		1.6	1.8
6.0"	55.5		2.4	2.7
8.0"	31.2		3.2	3.6
10.0"	20.0		4.0	4.5
■ Vert. Spread: 22.6° ■ Hor. Spread: 25.3°				

SQ-24V-9W • 1 114.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	835.1	74.9
0-40	954.7	85.7
0-60	1 060.8	95.2
60-90	53.8	4.8
70-100	21.1	1.9
90-120	0.1	0
0-90	1 114.6	100
90-180	0.1	0
0-180	1 114.7	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM '	WIDTH
2.0"	820.9	A	0.9	0.8
4.0"	205.2		1.7	1.6
6.0"	91.2		2.6	2.4
8.0"	51.3		3.5	3.2
10.0"	32.8		4.4	4.0
■ Vert. Spread: 24.5° ■ Hor. Spread: 22.6°				

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EBST • REV. 2024-2-26

т 514 227-1288

TF 1866 348-2374

¹ Complete IES files available on our website.



Catalog Number:

~.EBST12072-2SM3WLJWHT/ATD

Notes:

Type:

BU

ML&C24-119319

EBST

PHOTOMETRIC DATA¹

SQ-24V-14W • 1 487.4 LM



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 164.1	78.3
0-40	1 313.4	88.3
0-60	1 433.6	96.4
60-90	53.7	3.6
70-100	19.1	1.3
90-120	0.0	0
0-90	1 487.3	100
90-180	0.1	0
0-180	1 487.4	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
2.0"	1 166.4	A	0.8	0.8
4.0"	291.6		1.6	1.7
6.0"	129.6		2.4	2.5
8.0"	72.9		3.2	3.3
10.0"	46.7		4.0	4.2
■ Vert. Spread: 22.8° ■ Hor. Spread: 23.5°				

SQ-12-24V-30W • 2 578 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 112.3	82
0-40	2 315.1	90
0-60	2 491.9	97
60-90	83.7	3
0-90	2 575.7	100

ILLUMINANCE AT A DISTANCE

CENTE	R BEAM FC		BEAM	WIDTH
17.0"	33.7	A	6.1	6.3
34.0"	8.42		12.1	12.5
51.0"	3.47		18.2	18.8
68.0"	2.10		24.3	25.1
85.0"	1.35		30.4	31.3
102.0"	0.94		36.4	37.6
■ Vert. Spread: 20.3° ■ Hor. Spread: 20.9°				

AimLite

EBST • REV. 2024-2-26

¹ Complete IES files available on our website.



HDSB - Glenview Public School Gym

Catalog Number: ~RPALWUMWHT-BAT/ATD //WIRE **GUARD** Notes:

Type:

EX



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italnque n°	Date		

RPALW EXTRUDED ALUMINIUM

The clean lines of the RPALW series of commercial extruded aluminum signs present a fully modern appearance. The extruded aluminum provides for a rigid, durable and lightweight sign. Available in AC only, AC/DC and internally self-powered versions.

FEATURES & SPECIFICATIONS

CIRCUITRY -AC & AC/DC

- LED ultra bright light source
- 120/277/347 V AC Input, field selectable
- 1.9 W power consumption single or double face
- Emergency DC wattages as follows: 6 V DC = 0.9 W 12 V DC = 0.9 W 24 V DC = 0.9 W

CIRCUITRY -SELF-POWERED

- LED ultra bright light source
- 120/277/347 V AC Input, field selectable
- 2 W power consumption single or double face
- High-performance, Ni-Cad battery
- 90 or 120 minutes emergency duration
- Solid state transfer and battery charger

This review by DEI ascertaining conformance with the general de not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

X	Reviewed
	Not Reviewe

Reviewed As Noted
Revise and Resubmit

CIRCUITRY - NUCLEUS

- Emergency DC wattage as follow:
- 24 V DC = 0.10 A/2.4 W
- This unit can be connected to Nucleus's smart battery unit. Please view the Nucleus brochure for more details on this technology.

MECHANICAL

- Extruded aluminium construction
- Slide in/out captive faceplate(s) and backplate for rapid and simplified installation
- Universal spider knockout

- patterns stamped into backplate for junction box mounting
- Universal models include ceiling or end mount, field installable canopy kit c/w spider plate
- White powder coat finish standard, other finishes and colours optional

COMPLIANCE

· Meets requirements of ICES-005

APPROVALS

· CSA Certified to C22.2 #141-15 C860

OVERVIEW	
LIGHT SOURCE	LED
INPUT VOLTAGE (V AC)	120/277/347
INPUT POWER	1.9 W AC & AC/DC single or double face 2 W self-powered single or double face
DC VOLTAGE (VDC)	6, 12, 24
DC POWER (W)	0.9
DC POWER/VOLTAGE (NUCLEUS)	24 V = 2.4 W
NUCLEUS COMPATIBLE Q LED	ICES OUS OUS OUS OUS OUS OUS OUS OUS OUS OU

1/3

For complete warranty details, please see our terms and conditions in our website.

AimLite

RPALW • REV. 2024-4-17

т 514 227-1288

TF 1866 348-2374



HDSB - Glenview Public School Gym

Catalog Number: ~RPALWUMWHT-BAT/ATD //WIRE **GUARD** Notes:

Type: EX

ML&C24-119319

RPALW

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite RPALW Series, Extruded Aluminum Running Man Exit Signs. The sign shall operate with AC/DC field selectable 120/277/347 V AC Input, field selectable Emergency DC voltage as follows 6 V 0.9 W, 12 V 0.9 W, 24 V DC 0.9 W. The Self powered configuration shall be AC field selectable 120/277/347v and consist of a long lasting Nickel-Cadmium battery and shall stay illuminated for a minimum of 120 minutes upon AC failure. The face shall be illuminated by using Nichia LED ultra-bright light source. The sign shall be suitable for wall, end, or ceiling mount and come complete with 3 Running Man fibers for universal direction. The frame and back plate shall each be of a one-piece extruded aluminium construction. The Exit Running Man Sign shall be CSA 22.2 No.141-15 certified, ICES 005 compliant and be Aimlite model number RPALW_

AimLite RPALW • REV. 2024-4-17 т 514 227-1288 TF 1866 348-2374 aimlite.com



Catalog Number: ~RPALWUMWHT-BAT/ATD //WIRE **GUARD**

Notes:

Type: EX

ML&C24-119319

RPALW

ORDERING GUIDE

RPALW	М		-	/
SERIES NBR OF	FACES MOUNTING	COLOR	DC VOLTAGE*	OPTIONS
2 - 000	LE FACE BLE FACE VERSAL FACE	L WHT - WHITE (STANDARD) BLK - BLACK GRY - GREY BSH - BRUSHED ALUMINIUN CUS - CUSTOM COLOR (PLEASE SPECIFY)	UNVDC - UNIVERSAL DC BACKUP VOLTAGE 6, 12 AND 24 VDC BAT- SELF-POWERED FOR 90 MINUTES BAT1 - SELF-POWERED FOR 120 MINUTES NUC - NUCLEUS DRIVER	ATD! BKO, BNO, K5, LXS², PGD², SPW, VDR, WGD², LBN O - NO INDICATORS (DOUBLE FACE ONLY) V ↑ 7 2 6 6 D U UR DR DL UL

 $^{^{*}}$ If AC only is required, select the UNVDC option and do not connect the DC wires when installing.

OPTIONS

	DESCRIPTION		DESCRIPTION
ATD	AUTOMATIC TEST SELF-DIAGNOSTIC	PGD	LEXAN GUARD (SEPARATE ORDER)
вко	BLACK OUT OPTION (SPECIAL WORDING)	SPW	SPECIAL WORDING
BNO	WHITE OUT OPTION (SPECIAL WORDING)	VDR	VANDAL RESISTANT SCREWS
KG	1/2" KNOCKOUT FOR PENDANT MOUNT	WGD	WARD (SEPARATE ORDER)
LXS	VANDAL RESISTANT SHIELD	LBN	LOW BRIGHTNESS

WIREGUARD1

	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	WGD520-V2	15.75 X 11.5 X 4.5
CEILING MOUNT	WGD540	14.5 X 6.25 X 10.5
END MOUNT	WGD650-V2	17.75 X 17.75 X 16.50

¹ Please contact your AIMLITE customer service representative for more information.

WIREGUARD1

	PART NUMBER	DIMENSIONS (IN)
WALL MOUNT	PGD109	14 X 9.75 X 3.5
CEILING MOUNT	PGD110	14 X 5.75 X 10
END MOUNT	PGD106	5.5 X 9.25 X 18.5

ADVISE EITHER WALL, CEILING OR END MOUNT

Comes standard (double face) with two pictogram legends.



0.5"

For double face no arrow options, select "O" on the options column.

AimLite

RPALW • REV. 2024-4-17

Comes standard (single and universal face) with three

pictogram legends for direction selection.



DIMENSIONS

5.625"

TF 1866 348-2374

 $^{^{\}rm 1}$ ATD available with BAT and BAT1.

² Specify mounting.





Greengate

Room Controller

Provides code compliant automatic lighting, emergency and plug load control

Interactive Menu

- Order Information page 2
- · Additional Resources page 2
- · Wiring Diagrams page 4
- · Connected Systems page 4
- · Product Warranty

Product Certification



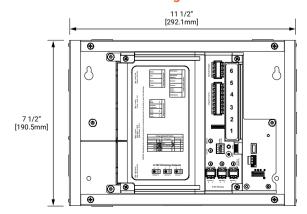
Product Features



Top Product Features

- The system includes three relays and up to three 0-10 VDC dimming outputs to control compatible dimmable ballasts. Providing a code compliant automatic lighting, emergency and plug load control out-of-the-box when connected to Room Controller low voltage devices. Network up to 254 ControlKeeper and Room Controller Network panels.
- · Click & Go ready, RJ45 connections
- · Preconfigured for automatic functionality upon power-up
- · Manual or Automatic On, bi-level, tri-level and dimming control strategies
- Integral Demand Response input with four levels of preconfigured energy reduction
- · Built in tubular lighting control with preconfigured wallstation controls
- · Options to meet Buy American Act requirements

Dimensional and Mounting Details





MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

Reviewed		Rev
Not Reviewed	X	Rev

Ш	Reviewed As Noted
X	Revise and Resubmi







HDSB - Glenview Public School Gym

Catalog Number: RC3D-PL

Notes:

Type: **RCD**

ML&C24-119319

Greengate

Room Controller

Order Information

Catalog Number

Domestic Preferences (1)	Catalog Number	Description	Voltage	Ballast/Incandescent
[Blank] =Standard	RC3-PL 3 Relays, Plenum		120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3D-PL	3 Relays, 3 0-10V dimming, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
RC3D-PL-CP		3 Relays, 3 0-10V dimming, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
		3 Relays, 3 0-10V dimming, UL924, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
	RC3DEHC-PL-CP	3 Relays, 3 0-10V dimming, UL924 for healthcare, Chicago Plenum Room Controller	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
[Blank] =Standard BAA = Buy American Act	RC3DE-PL	3 Relays, 3 0-10V dimming, UL 924, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A
DAA - Duy Aifferican Act	RC3DEHC-PL	3 Relays, 3 0-10V dimming, UL 924 for healthcare, Plenum	120-277 VAC, 50/60Hz	Maximum Combined Load 20A

(1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed underdomestic preference requirements.

Additional Options

Catalog Number

Catalog	Description	
GGRC-COUPLER	RJ45 Coupler	
GGRC-SPLITTER	RJ45 Splitter	
GGRJ45-006-G	RJ45 cables 6 inches	
GGRJ45-03-G	RJ45 cables 3 feet	
GGRJ45-10-G	RJ45 cables 10 feet	
GGRJ45-25-G	RJ45 cables 25 feet	
GGRJ45-50-G	RJ45 cables 50 feet	
GGRJ45-100-G	RJ45 cables 100 feet	
GGRJ45-10P-G	RJ45 cables 10 feet plenum rated	
GGRJ45-25P-G	RJ45 cables 25 feet plenum rated	
GGRJ45-50P-G	RJ45 cables 50 feet plenum rated	
GGRJ45-100P-G	RJ45 cables 100 feet plenum rated	
Note Please refer to the Room Controller page on our website for more information. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.		

Product Specifications

Size: 11 1/2" W x 7 1/2" H x 2 1/4" D (292.1mm x 190.5mm x 57.15mm) **Environment:**

• Operating temperature: 32°F to 104°F (0°C to 40°C)

· For indoor use only

Electrical

Input Requirements:

• 120-277 VAC 50/60Hz

Maximum 20A combined load per Room Controller

Ballast load: 20A @ 120/277 VAC (LED) Incandescent load: 15A @ 120 VAC Motor load: 1HP @ 120 VAC

LED Drivers: Requires isolated LED drivers for optimal performance

LED, Ballast or Incandescent Load: 3A

Class 2 Dimming Output:

- 0-10 VDC, sinks up to 100mA per (40 μA max per circuit leakage to line)
- · Each 0-10V output supports up to 50 ballasts / drivers that draw the standard 2mA each

Emergency Output (RC3DE/RC3DEHC only): UL 924

Installation: Install in accordance with National Electrical Code and any other codes that may apply

Standards/Ratings

- · UL Approved
- UL 508 Listed
- · UL 924 Listed · cULus Listed

Five year warranty standard



Submitted by Medgar Lighting & Controls Inc



Job Name:

HDSB - Glenview Public School Gym

Catalog Number: RC3D-PL

Notes:

Type:

ML&C24-119319

RCD

Greengate

Room Controller

Overview

The Room Controllers are connected to a 120 VAC through 277 VAC 20 Amp circuit to provide unit power and input power to the individual relays. The wallstations, occupancy sensors, daylight sensors and receptacle control devices connect via QuickConnect cables (ordered separately) providing a Class 2 connection. Upon power up the preengraved wallstation automatically controls the On/Off relays adjust the dimming outputs. The daylight sensor will immediately adjust the lighting levels based on natural

The line voltage section of the Room Controller provides the installing contractor space to make all line voltage connections and direct conduit access, reducing the need for additional junction boxes, while providing easy access to line voltage circuits. Low voltage devices are connected using Cat5 cables (ordered separately).

UL 924 relay is provided on some units for automatic emergency lighting control. The UL 924 relay automatically tracks with output 1 and can be connected to any of the three 0-10V dimmers. The UL 924 relay automatically closes and disconnects the 0-10V control open loss of normal power providing adequate egress lighting control. Ladderless maintenance testing of the UL 924 relay can be achieved by pressing the ALL OFF button four times.



Index Page



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC3D-PL

Notes:

Type: RCD

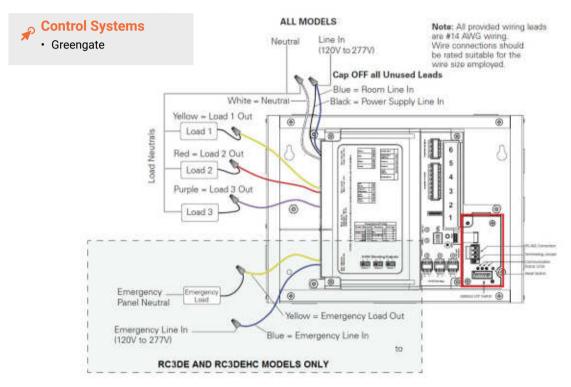
ML&C24-119319

Greengate

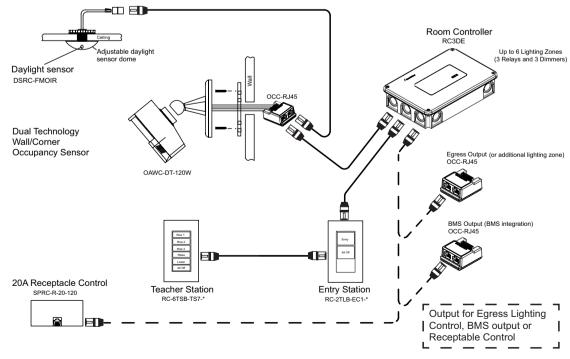
Room Controller

Wiring Diagrams

Sample Wiring Diagram



Room Connections





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2021 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice. PS503119EN **page 4**

HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: OAWC-DT-120W

Notes:

Type:

OS1

Project	Catalog #	Туре	
Prepared by	Notes	Date	



Greengate

OAWC-DT-120W Dual Technology

Wall / Corner Sensor

Typical Applications

Classrooms • Conference Rooms • Large Offices • Common Areas • Computer Rooms • Break Rooms

Interactive Menu

- · Order Information page 2
- · Additional Resources page 2
- Wiring Diagrams page 2
- Connected Systems page 3
- · Product Warranty

Product Certification







Product Features







Overview

The Dual Technology sensor's combination of Ultrasonic and Passive Infrared technologies offers the most complete sensing equipment available today. Self-adjusting Dual Technology sensors drastically simplify and reduce a contractor's installation and adjustment time period.

The OAWC-DT combines Ultrasonic (US) and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough application without the threat of false triggers. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. The sensor includes MicroSet self-adaptive technology that continuously self-adjusts sensitivity and time delay in real-time, maximizing the potential energy savings that are available in particular application. In Automatic On Mode, the lights turn ON when a person enters the room. In Manual-On Mode, the lights are turned ON by activating a momentary switch (model #GMDS-*) that is connected to the sensor. When used with 2 level lighting (-R model only), Bi-level Automatic On can be achieved which allows Zone 1 to come on automatically upon occupancy. Zone 2 does not come on unless the occupant presses the optional momentary switch. When enabled, the daylighting feature (-R models only) prevents lights from turning ON when the room is adequately illuminated by natural light.

Top Product Features

- · MicroSet self-adjusting time delay and sensitivity
- · Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- · Selectable Walk-Through Mode



MECHANICAL ELECTRICAL AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall Manual On feature for use with 1 or 2 momentary switches controlling 1 or in the shop tradings, responsibility for which shall remain with the contractor. submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

X	Reviewed
	Not Reviewed

Reviewed As Noted
Revise and Resubmi





HDSB - Glenview Public School Gym

Catalog Number: OAWC-DT-120W

Notes:

Type:

OAWC-DT-120W

OS1

ML&C24-119319

Greengate

Order Information

Catalog Number

Catalog Number	Coverage	Field of View	Features
OAWC-DT-120W-R	1,200 sq. ft.	Wide Angle (120°)	w/ BAS Relay & Daylight Sensor
OAWC-DT-120W	1,200 sq. ft.	Wide Angle (120°)	

Product Specifications

Technology

· Passive Infrared (PIR) and Ultrasonic (US)

Mechanical

Size: 4.4"H x 3.4"W x 2"D (112mm x 86.4mm x50.8mm)

Mounting: Mounts directly to ceiling tile, to a 4" square box and round mud ring or to 4" octagon box

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: 20% to 90% non-condensing
- · For indoor use only

Housing:

- Durable, injection molded housing
- · Polycarbonate resin complies with UL 94V-0

Electrical

Power Requirements:

- Input
- · 0-30 VDC from Greengate Switchpack or Greengate System
- Maximum current needed is 25mA per sensor
- - Open collector output to switch up to ten Greengate Switchpacks
 - Isolated Form C Relay in (-R models)
 - Isolated Form C Relay Ratings: 1A 30 VDC/VAC

Hardware Specifications

LED Indicators:

Red LED for PIR detection; Green LED for Ultrasonic detection

Controls and Performance

Time delays:

Self-Adjusting, 15 seconds/test, 5, 10, 15, 30 minutes

Light sensing level (-R Models):

· 0 to 300 foot candles

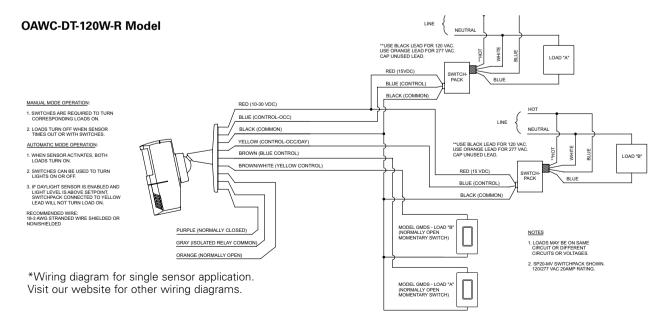
Standards/Ratings

- · cULus Listed Energy Management Equipment (UL916)
- FCC Compliant
- RoHS Compliant

Warrantv

Five year warranty standard

Wiring Diagrams







Catalog Number: OAWC-DT-120W

Notes:

Type:

OS1

ML&C24-119319

Greengate

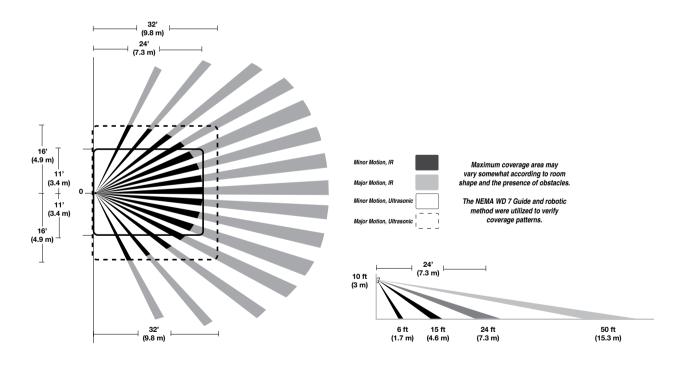
OAWC-DT-120W

Controls

DIP Switch Legend

DIP Switch				Power Pac	lı One														
					K UIIE	Power Pac	k Two												
			2		3		4		5		6		7		8		9		10
Auto	to*	•	▼	Auto	•	Auto	•	Full	•	Disable	•	Enable	•	Disable	•	Disable	•	Half	•
5 Min	linutes	▼	A	Manual	•	Manual	•	50%	•	Enable	•	Disable	A	Enable	•	Enable	A	Fu∎	•
15 Mi	Minutes	•	▼			(-R model	only)											(-R model	only)
30 Mi	Minutes	•	A																
10 min.	Adjusts to in. user node			-						5 min. 15 min. 30 min.	7 7	50% 🛦	Override Disable Enable	Ш					









Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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Specifications and dimensions subject to change without notice.

PS50311324 page 3

Project	Catalog #	Туре	
Prepared by	Notes	Date	



Greengate

Input / Output Device

Provides connection of any Greengate low voltage occupancy sensor, or other low voltage maintain closure, to the Room Controller or DLVP power module

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

- Order Information page 2
- · Additional Resources page 3
- Wiring Diagrams page 3
- Connected Systems page 6
- Product Warranty

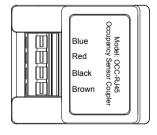
Product Certification

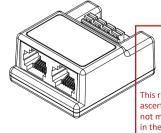


Top Product Features

- · Input/Output integration
- · Automatically provide Egress or HVAC integration based on room occupancy junction box
- · Allows connection of standard switchpacks
- · Plenum Rated

Dimensional Details







MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

Reviewed
Not Reviewe

	Reviewed As Noted
X	Revise and Resubmit



Note: Provide Wavelink CAT for review.

PS503305EN **page 1**August 2021



HDSB - Glenview Public School Gym

Catalog Number: OCC-RJ45

Notes:

Type:

OCC

ML&C24-119319

Greengate

Input / Output Device

Order Information

Catalog Number

Catalog Number		Description				
OCC-RJ45	Input/Output Device					
Notes .						
One OCC-RJ45 is automatically included with each oc See Greengate low voltage occupancy sensor spec sh	10 One OCC-RJ45 is automatically included with each occupancy sensor when the Room Controller is ordered as a QuicKit. (2) See Greengate low voltage occupancy sensor spec sheet for occupancy sensor information.					

Product Specifications

- The Input/Output Device (OCC-RJ45) provides connection of any Greengate low voltage occupancy sensor, or other low voltage maintain closure, to the Room Controller or DLVP power module to define the occupancy state of the space. The OCC-RJ45 also can be used as an output to the HVAC system, third party systems o switchpacks based upon room occupancy status.
- The Input/Output Device (OCC-RJ45) is ready and works immediately upon power up, providing Occupancy based inputs or outputs out-of-the-box, removing the need for field programming and reducing installation time
- Low-voltage devices are connected using provided pre-terminated control cables (ordered separately)

Mechanical **Environment:**

• Operating temperature: 32°F to 104°F (0°C to 40°C)

- · Less than 95%, non-condensing
- · For indoor use only

Voltage: 24 VDC supplied from Room Controller, DLVP power module or Switchpack

Electrical Rating: Class 2, LPS

Standards/Ratings

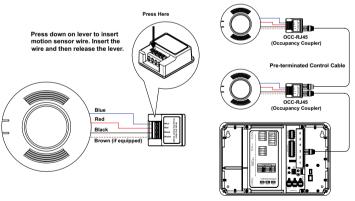
- · cULus Listed
- UL 508 Listed

Warranty

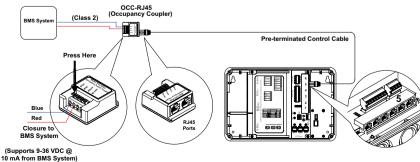
Consult website for warranty information

Wiring Diagrams

Sample Room Controller Wiring Diagram



Connect the OCC-RJ45 Coupler to the BMS system. Closure will be made across the Blue and Red wire locations. Connect a pre-terminated control cable between the Receptacle/BMS Out RJ45 port on the Room Controller (port 5) or DLVP power module and to one of the ports on the OCC-RJ45 ports.







Catalog Number: OCC-RJ45

Notes:

Type:

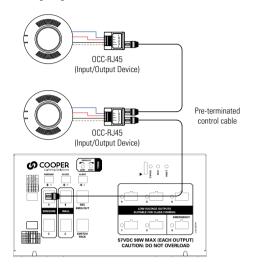
OCC

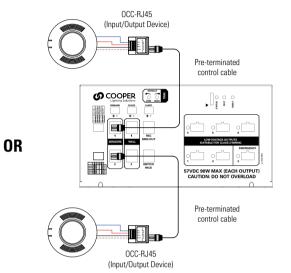
ML&C24-119319

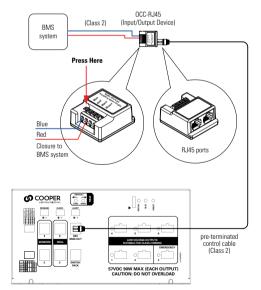
Greengate

Input / Output Device

Sample DLVP Wiring Diagram







Connect the OCC-RJ45 Input/Output Device to the BMS system.

Closure will be made across the Blue and Red wire locations.

Connect a pre-terminated control cable between the REC/BMS/OUT RJ45 port on the low-voltage power module and to one of the ports on the OCC-RJ45 ports.





HDSB - Glenview Public School Gym

Catalog Number: OCC-RJ45

Notes:

Type:

OCC

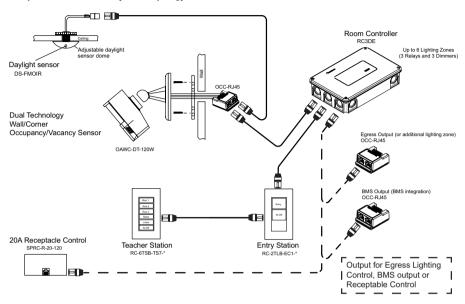
ML&C24-119319

Greengate

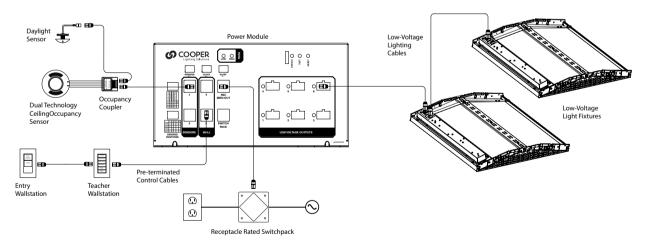
Input / Output Device

Sample System Topology

Sample Room Controller System Topology

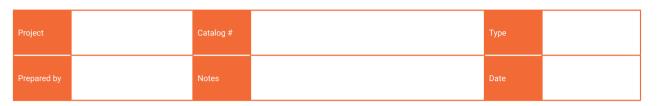


Sample DLVP System Topology





Catalog Number: Submitted by Medgar Lighting & Controls Inc Type: Job Name: SP20-MV PP HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Notes: ML&C24-119319





Greengate

SP15 & SP20 **Heavy Duty Switchpacks**

Provide 15 VDC operating voltage to all low voltage, 15 VDC occupancy sensors and daylighting controllers

Interactive Menu

- Order Information page 2
- Wiring Diagrams page 3
- Mounting Diagrams page 3
- · Connected Systems page 3
- · Product Warranty

Product Certification





Top Product Features

- · Replaces separate transformers and relays
- · Zero-crossing circuit provides increased durability, especially with today's high inrush loads
- · Capable of switching up to 20 Amps
- · Suitable for Plenum use
- · Rated for Ballast, Tungsten and Motor Loads
- · LED ready

Dimensional and Mounting Details Consulting Engineers Can be easily mounted on or in a 4"sq. junction box, via ½" in nipple MECHANICAL | ELECTRICAL | AQUATIC This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents. X Reviewed **Reviewed As Noted Not Reviewed** Revise and Resubmit



PS503286EN page 1



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: SP20-MV

Notes:

Type:

ML&C24-119319

Greengate

Heavy Duty Switchpack

Order Information

Catalog Number

Catalog Number	Ratings	(LED) Ballast	Tungsten	Motor (HP)	Output
SP20-MV	120/277 VAC, 50/60 Hz	20A	15A, 120V	1HP-120V, 2HP-250V	15 VDC, 125mA
SP15-347	347 VAC, 50/60 Hz	15A	NR	NR	15 VDC, 125mA

Product Specifications

Key Features

Switchpacks provide 15 VDC operating voltage to all low voltage, 15 VDC occupancy sensors and daylighting controllers. A single switchpack can provide power for up to five sensors. Up to ten switchpacks can be connected to one sensor for control of multiple circuits. Isolated contacts may also be used to control HVAC, contactors, motors, etc.

- · Replaces separate transformers and relays
- Zero-crossing circuit provides increased durability, especially with today's high inrush loads
- · Capable of switching up to 20 Amps
- · Suitable for Plenum use
- · Rated for Ballast, Tungsten and Motor Loads
- LED readv

Mechanica

Size: 2.94"H x 2.44"W x 1.69"D (74.67mm x 61.97mm x 42.92mm)

Environment:

- Operating temperature: 32°F 104°F (0°C 40°C)
- · Relative humidity operating: Less than 95%, non-condensing
- · For indoor use only

Mounting: Mounts to the side of a 4" square box via 1/2" knockout Housing:

- Medium impact injection molded housing.
- ABS resin complies with UL 94V-0. Plenum rated for external junction box mounting, with Teflon coated leads

Electrical Input:

- · (120/277 VAC-SP20-MV), (347 VAC-SP15-347), 50/60 Hz operation
- Contacts are isolated and may be used to control low voltage circuits

Output:

• 15 VDC 125mA to operate up to five Greengate sensors

Control: Connecting the 22 AWG red and blue control leads to each other will close the relay contacts

Load: 1 HP 120-240 VAC; 2 HP 250 VAC

Ballast compatibilty:

- · LED loads
- · Magnetic and Electronic ballasts
- NOTE: The life of some compact fluorescent lamps (CFLs) is shortened by frequent automatic or manual switching. Check with the CFL and ballast manufacturer to determine effects of cycling

Standards/Ratings

- UL Listed
- · CSA Listed

Warranty

Consult website for warranty information

Description/Operation

The switchpack has two main components: a transformer and one high current relay. The transformer has a primary line voltage input and a secondary low voltage output. The low voltage output, 15 VDC, provides operating power to connected low voltage Greengate occupancy sensors. When an occupancy sensor detects motion, it electrically closes an internal circuit, pulling up the control signal between the sensor and the switchpack. This signals the switchpack to close its high current relay, turning the connected load on

Applications

The switchpack is designed to work with low voltage sensors which require switchpacks. It cannot be used with sensors designed for use with any other low voltage relay systems. Consult sensor spec sheets for other sensor relay combinations.





HDSB - Glenview Public School Gym

Catalog Number: SP20-MV

Notes:

Type:

ML&C24-119319

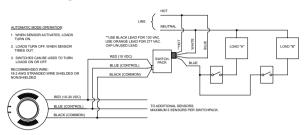
PP

Greengate

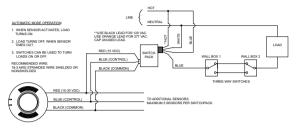
Heavy Duty Switchpack

Wiring Diagrams

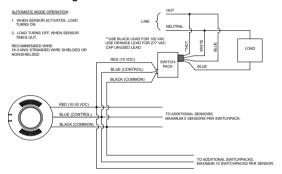
A/B Switching



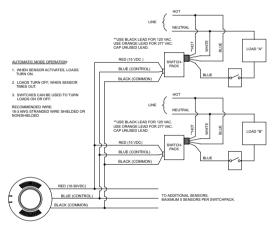
Three Way Switching



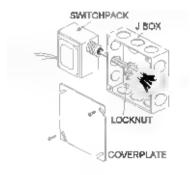
Standard Configuration



2 Circuits, 1 Sensor



Mounting



All connections are made via pigtails with twist-on wire

Connect either the orange or black supply lead to the power source, depending upon the power requirements. Cap the





PS503286EN page 3

medgarl

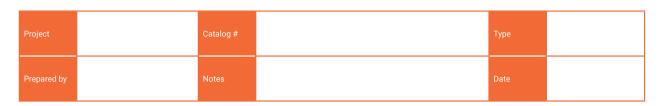
Job Name:

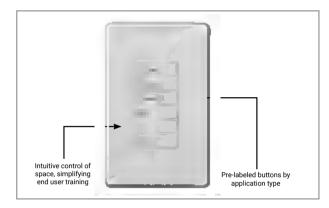
HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

KP1





Greengate

Zone Wallstation

Note: Provide Wavelink CAT for review.

Interactive Menu

- Order Information page 2
- Additional Resources page 3
- · Wiring Diagrams page 4
- · Connected Systems page 5
- Product Warranty

Top Product Features

- · Low-voltage control for ON/OFF and dimming loads

- · Wallstations can be used for multi-way control
- Options to meet Buy American Act requirements

Product Certification





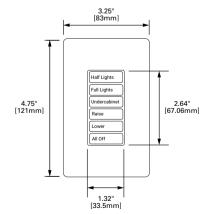
This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent Pre-terminated control cable ready with RJ45 ports eliminate wiring er of the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his
 Available in 2, 3, 4, 5, 6 button models designed to fit in decorator wall plates (Included) errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

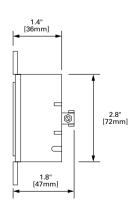
> Reviewed Not Reviewed

Reviewed As Noted

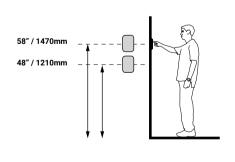
Revise and Resubmit

Dimensional Details





Mounting Height







PS503116EN page 1



Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

KP1

ML&C24-119319

Greengate

Zone Wallstation

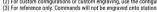
Order Information

SAMPLE ORDER NUMBER: RC-6TSB-0S3-W

One single gang color matching wallplate is included in the package. Standard button engraving shown below. Engraving appears as black text on white, ivory, and gray buttons. Engraving appears as gold text on black buttons. If white engraved text is desired on black buttons use the configurator tool with the FlashPro software.

Domestic Preferences	Catalog Number	Number of Buttons	Button Engraving	Command Reference Table	Insert Color
Domestic Preferences (1)	Catalog Number	Number of Buttons	Button Engraving ⁽³⁾	Command Reference Table (3)	Insert Color
IBlanki =Standard BAA = Buy American Act	RC	1, 2, 3 - Large Buttons – TLB 4, 5, 6 = Small Buttons – TSB	101 = Zone 1(1 TLB) 102 = Zone 2 (1 TLB) 103 = Zone 3 (1 TLB) 221 = Zone 1, Zone 2 (2TLB) 321 = Zone 1, Zone 2, All Off (3TLB) 331 = Zone 1, Zone 2, All Off (3TLB) 531 = Zone 1, Zone 2, Zone 3, Raise, Lower (5TSB) 621 = All On, Raise 1, Lower 1, Raise 2, Lower 2, All Off (6TSB) 623 = Zone 1, Raise 1, Lower 1, Zone 2, Raise 2, Lower 2 (6TSB) 631 = Zone 1, Zone 2, Zone 3, Raise, Lower, All Off (6TSB) ES1 = Entry, Al OFF (2TLB) TS1 = General, Whiteboard, Quiet Time, A/V Mode, Raise, Lower (6TSB)	101 = 1 102 = 2 103 = 11 221 = 1, 2 321 = 1, 2, 8 331 = 1, 2, 11, 6, 7 621 = 16, 17, 18, 19, 20, 8 623 = 1, 17, 18, 2, 19, 20 631 = 1, 2, 11, 6, 7, 8 ES1 = 1, 8 TS1 = 2, 3, 5, 4, 6, 7	W= White B= Black V= Ivory G= Gray
			TS2 = General, Whiteboard, Quiet Time, Raise, Lower All OFF (6TSB) TS3 = General, Whiteboard, Quiet Time, A/V Mode, All OFF (5TSB) TS4 = General, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) TS5 = Entry, General, Whiteboard, All OFF (4TSB) TS6 = Entry, General, Whiteboard, Raise, Lower, All OFF (6TSB) TS7 = Row 1, Row 2, Row 3, Raise, Lower, All OFF (6TSB) TS8 = Uplights, Downlights, Accent, Raise, Lower, All OFF (6TSB) TS9 = Entry, General, Quiet Time, Whiteboard, A/V Mode, All OFF (6TSB) TS10 = Main, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) HC1 = General, Exam, Reading, All OFF (4TSB)	TS2 = 2,3,5,6,7,8 TS3 = 2,3,5,4,8 TS4 = 2,3,4,6,7,8 TS5 = 1,2,3,6,7,8 TS7 = 1,2,3,6,7,8 TS8 = 1,2,3,6,7,8 TS9 = 1,2,5,3,4,8 TS10 = 1,3,4,6,7,8 HC1 = 1,2,3,8	
			HC2 = Ceneral, Exam, Reading, Raise, Lower, All OFF (6TSB) OS1 = Half Lights, Full Lights, All OFF (3TLB) OS2 = Half Lights, Full Lights, Raise, Lower, All OFF (5TSB) OS3 = Half Lights, Full Lights, Undercabinet, Raise, Lower, All OFF (6TSB) OS4 = All ON, All OFF (2TLB) ZAD = Zone 1 UP, Zone 1 DN, Zone 2 UP, Zone 2 DN, Zone 3 UP, Zone 3 DN (6TSB) Z1D = Zone 1, Raise, Lower (3TLB) Z2D = Zone 2, Raise, Lower (3TLB) Z3D = Zone 3, Raise, Lower (3TLB)	NG2 = 1,2,3,6,7,8 OS1 = 12,13,8,7,8 OS2 = 12,13,6,7,8 OS3 = 12,13,11,6,7,8 OS4 = 10,8 ZAD = 17,18,19,20,21,22 Z1D = 1,17,18 Z2D = 2,19,20 Z3D = 3,21,22	

Notes





⁽¹⁾ Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

(2) For custom configurations or custom engraving, use the configurator tool within the FlashPro tool.

(3) For reference only. Commands will not be engraved onto station.



HDSB - Glenview Public School Gym

Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

KP1

ML&C24-119319

Greengate

Zone Wallstation

For Reference Only

Command #	Action
1	Toggle Load/Zone 1 (Also influences Receptacle Switchpack, Solatube, and Emergency)
2	Toggle Load/Zone 2 (Also influences Receptacle Switchpack)
3	Toggle Load/Zone 3
4	Toggle A/V mode B Scene 5
5	Disable/Re-enable Occupancy Sensor (After being disabled 60 minutes, the sensor automatically re-enables)
6	Raise all
7	Lower all
8	All Loads/Zones OFF
9	All Dimmers 50%, Relay 1 ON, Relay 2 OFF, Relay 3 unaffected DLVP-Zone 1=50%, Zone 2=OFF, Zone 3=unaffected
10	All Loads/Zones to 100% (Solatube closed)
11	Toggle Load/Zone 3 (influences Receptacle Switchpack)
12	Go to Scene 1
13	Go to Scene 2
14	Go to Scene 3
15	Go to Scene 4
16	All Loads/Zones ON
17	Raise Zone 1
18	Lower Zone 1
19	Raise Zone 2
20	Lower Zone 2
21	Raise Zone 3
22	Lower Zone 3

Product Specifications

Mechanical

Size: 4.75" H x 3.25" W (121mm x 83mm)

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: Less than 95%, non-condensing
- · For indoor use only

Connection Ports: Two RJ45 ports

Button Configurations:

- · Large buttons: 2 or 3
- · Small buttons: 2, 4, 5, 6

Installation:

· Standard decorator opening

Input Requirements: Class 2, LPS

Voltage: 24 VDC supplied from Room Controller

Standards/Ratings

· UL 508 Listed

Warning

- · This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Five year warranty standard





HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

KP1

ML&C24-119319

Greengate

Zone Wallstation

Overview

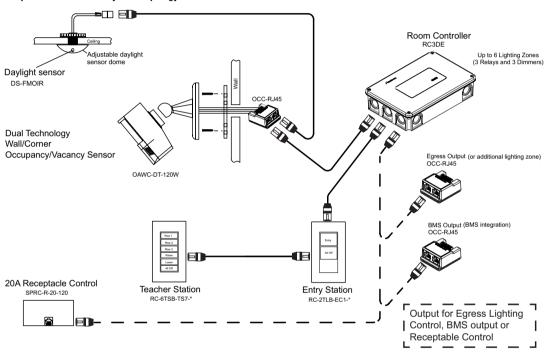
The zone wallstations are pre-engraved low-voltage switches that operate on 24 VDC power supplied by the Room Controller or DLVP power module. Each wallstation is designed to fit in a standard decorator opening and has two RJ45 ports for local network connections to eliminate wiring errors.

The zone wallstations are pre-terminated control cable (ordered separately) ready and work immediately upon power up. Zone wallstations for office, classroom, patient room, conference room and general areas are available and are fully functional out-of-the-box removing the need for field programming and reducing installation time.

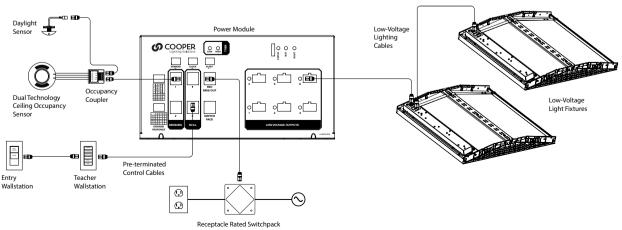
Low-voltage devices are connected using provided pre-terminated control cables (ordered separately).

Wiring Diagrams

Sample Room Controller System Topology



DLVP System Topology





HDSB - Glenview Public School Gym

Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

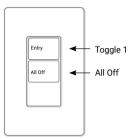
KP1

ML&C24-119319

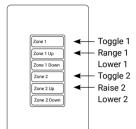
Zone Wallstation Greengate

Sample Wallstations

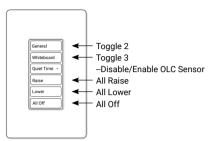
* Not All Configurations Shown



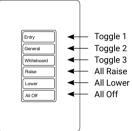
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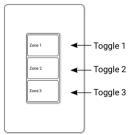
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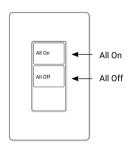
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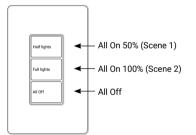
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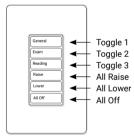
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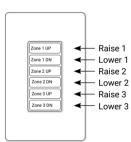
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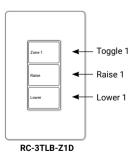
RC-3TLB-OS1



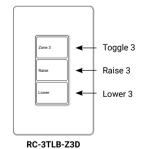
RC-6TSB-HC2



RC-6TSB-ZAD



- Toggle 2 - Raise 2 Lower 2 RC-3TLB-Z2D



Control Systems · Greengate



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.CooperLS.com

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Specifications and dimensions subject to change without notice.

PS503116EN page 5



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-101-W

Notes: ZONE 1

Type:

KP1

ML&C24-119319



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- · Never spray any fluids directly into the device.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- Use a damp rag or single-use wipe to avoid excess liquid penetrating the device.
- · Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found inhousehold cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.



image for reference only

↑ WARNING

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- · Never spray any fluids directly into the device.
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are
 acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline
 or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- · Remove an excess liquid remaining on the device with a dry cloth or paper towel.



Addition Engineer: DEI & Associates (Waterloo)

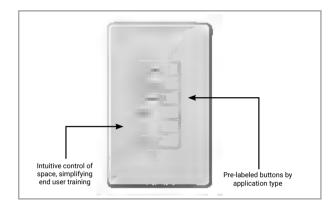
HDSB - Glenview Public School Gym

Notes: ZONE 2

Type:

KP2





Greengate

Zone Wallstation

Note: Provide Wavelink CAT for review.

Interactive Menu

- Order Information page 2
- · Additional Resources page 3
- · Wiring Diagrams page 4
- · Connected Systems page 5
- · Product Warranty

Top Product Features

- · Low-voltage control for ON/OFF and dimming loads

- · Wallstations can be used for multi-way control
- Options to meet Buy American Act requirements

Product Certification



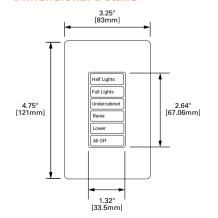


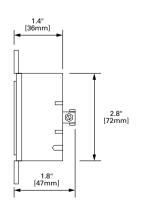
MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent • Pre-terminated control cable ready with RJ45 ports eliminate wiring errors shop drawings, responsibility for which shall remain with the contractor Pre-terminated control cable ready with R345 poils eminiate willing elements submitting same, and such review shall not relieve the contractor of his
 Available in 2, 3, 4, 5, 6 button models designed to fit in decorator wall plates (included) prors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

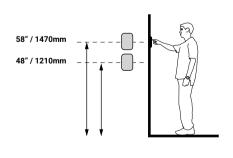
Reviewed	Reviewed As Noted
Not Reviewed	X Revise and Resubmit

Dimensional Details





Mounting Height







PS503116EN page 1



Catalog Number: RC-1TLB-102-W

Notes: ZONE 2

Type:

KP2

ML&C24-119319

Greengate

Zone Wallstation

Order Information

SAMPLE ORDER NUMBER: RC-6TSB-0S3-W

One single gang color matching wallplate is included in the package. Standard button engraving shown below. Engraving appears as black text on white, ivory, and gray buttons. Engraving appears as gold text on black buttons. If white engraved text is desired on black buttons use the configurator tool with the FlashPro software.

Domestic Preferences	Catalog Number	Number of Buttons	Button Engraving	Command Reference Table	Insert Color
Domestic Preferences (1)	Catalog Number	Number of Buttons	Button Engraving (3)	Command Reference Table (3)	Insert Color
		Number of Buttons 1 2, 3 Large Buttons = TLB 4, 5, 6= Small Buttons = TSB	101 = Zone 1(1 TLB) 102 = Zone 2 (1 TLB) 103 = Zone 3 (1 TLB) 221 = Zone 1, Zone 2 (2TLB) 321 = Zone 1, Zone 2, Zone 3 (3TLB) 321 = Zone 1, Zone 2, Zone 3 (3TLB) 531 = Zone 1, Zone 2, Zone 3 (3TLB) 531 = Zone 1, Zone 2, Zone 3, Raise, Lower (5TSB) 621 = All On, Raise 1, Lower 1, Raise 2, Lower 2, All Off (6TSB) 623 = Zone 1, Raise 1, Lower 1, Zone 2, Raise 2, Lower 2 (6TSB) 631 = Zone 1, Zone 2, Zone 3, Raise, Lower, All Off (6TSB) 631 = Zone 1, Zone 2, Zone 3, Raise, Lower, All Off (6TSB) 531 = General, Whiteboard, Quiet Time, A/V Mode, Raise, Lower (6TSB) 152 = General, Whiteboard, Quiet Time, A/V Mode, Raise, Lower (6TSB) 153 = General, Whiteboard, Quiet Time, A/V Mode, All OFF (6TSB) 154 = General, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) 155 = Entry, General, Whiteboard, All OFF (4TSB) 156 = Entry, General, Whiteboard, All OFF (6TSB) 157 = Row 1, Row 2, Row 3, Raise, Lower, All OFF (6TSB) 158 = Uplights, Downlights, Accent, Raise, Lower, All OFF (6TSB) 159 = Entry, General, Quiet Time, Whiteboard, A/V Mode, All OFF (6TSB) 1510 = Main, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) 1510 = Main, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) HC1 = General, Exam, Reading, All OFF (4TSB) OS1 = Half Lights, Full Lights, All OFF (3TLB)	101 = 1 102 = 2 103 = 11 221 = 1, 2 321 = 1, 2, 8 331 = 1, 2, 11, 6, 7 621 = 16, 17, 18, 19, 20, 8 623 = 1, 17, 18, 2, 19, 20 631 = 1, 2, 11, 6, 7, 8 ES1 = 1, 8 TS1 = 2, 3, 5, 4, 6, 7 TS2 = 2, 3, 5, 4, 6, 7 TS2 = 2, 3, 5, 4, 6, 7 TS3 = 2, 3, 5, 4, 8 TS4 = 2, 3, 4, 6, 7, 8 TS5 = 1, 2, 3, 8 TS6 = 1, 2, 3, 6, 7, 8 TS7 = 1, 2, 3, 6, 7, 8 TS9 = 1, 2, 3, 4, 6, 7, 8 TS9 = 1, 2, 3, 6, 7, 8 TS9 = 1, 2, 3, 4, 6, 7, 8 TS9 = 1, 2, 3, 6, 7, 8	Insert Color W= White B= Black V= Ivory G= Gray
			OS2 = Half Lights, Full Lights, Raise, Lower, All OFF (5TSB) OS3 = Half Lights, Full Lights, Undercabinet, Raise, Lower, All OFF (6TSB) OS4 = All ON, All OFF (2TLB) CAD = Zone 1 UP, Zone 1 DN, Zone 2 UP, Zone 2 DN, Zone 3 UP, Zone 3 DN (6TSB) Z10 = Zone 1, Raise, Lower (3TLB) Z20 = Zone 2, Raise, Lower (3TLB) Z30 = Zone 3, Raise, Lower (3TLB)	OS2 = 12,13, 6, 7, 8 OS3 = 12, 13, 11, 6, 7, 8 OS4 = 10, 8 ZAD = 17, 18, 19, 20, 21, 22 Z1D = 1, 17, 18 Z2D = 2, 19, 20 Z3D = 3, 21, 22	

Notes



⁽¹⁾ Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

(2) For custom configurations or custom engraving, use the configurator tool within the FlashPro tool.

(3) For reference only. Commands will not be engraved onto station.



HDSB - Glenview Public School Gym

Catalog Number: RC-1TLB-102-W

Notes: ZONE 2

Type:

KP2

ML&C24-119319

Greengate

Zone Wallstation

For Reference Only

Command #	Action		
1	Toggle Load/Zone 1 (Also influences Receptacle Switchpack, Solatube, and Emergency)		
2	Toggle Load/Zone 2 (Also influences Receptacle Switchpack)		
3	Toggle Load/Zone 3		
4	Toggle A/V mode B Scene 5		
5	Disable/Re-enable Occupancy Sensor (After being disabled 60 minutes, the sensor automatically re-enables)		
6	Raise all		
7	Lower all		
8	All Loads/Zones OFF		
9	All Dimmers 50%, Relay 1 ON, Relay 2 OFF, Relay 3 unaffected DLVP-Zone 1=50%, Zone 2=0FF, Zone 3=unaffected		
10	All Loads/Zones to 100% (Solatube closed)		
11	Toggle Load/Zone 3 (influences Receptacle Switchpack)		
12	Go to Scene 1		
13	Go to Scene 2		
14	Go to Scene 3		
15	Go to Scene 4		
16	All Loads/Zones ON		
17	Raise Zone 1		
18	Lower Zone 1		
19	Raise Zone 2		
20	Lower Zone 2		
21	Raise Zone 3		
22	Lower Zone 3		

Product Specifications

Mechanical

Size: 4.75" H x 3.25" W (121mm x 83mm)

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: Less than 95%, non-condensing
- · For indoor use only

Connection Ports: Two RJ45 ports

Button Configurations:

- · Large buttons: 2 or 3
- · Small buttons: 2, 4, 5, 6

Installation:

· Standard decorator opening

Input Requirements: Class 2, LPS

Voltage: 24 VDC supplied from Room Controller

Standards/Ratings

· UL 508 Listed

Warning

- · This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Five year warranty standard





HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-102-W

Notes: ZONE 2

Type:

KP2

ML&C24-119319

Greengate

Zone Wallstation

Overview

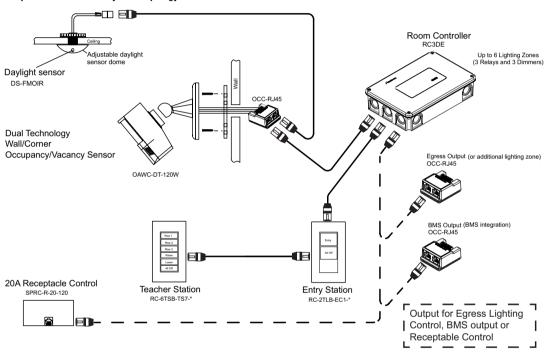
The zone wallstations are pre-engraved low-voltage switches that operate on 24 VDC power supplied by the Room Controller or DLVP power module. Each wallstation is designed to fit in a standard decorator opening and has two RJ45 ports for local network connections to eliminate wiring errors.

The zone wallstations are pre-terminated control cable (ordered separately) ready and work immediately upon power up. Zone wallstations for office, classroom, patient room, conference room and general areas are available and are fully functional out-of-the-box removing the need for field programming and reducing installation time.

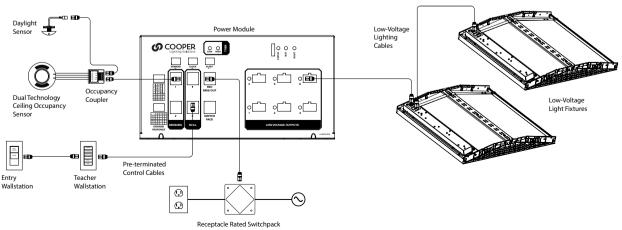
Low-voltage devices are connected using provided pre-terminated control cables (ordered separately).

Wiring Diagrams

Sample Room Controller System Topology



DLVP System Topology





HDSB - Glenview Public School Gym

Notes: ZONE 2

Catalog Number:

RC-1TLB-102-W

Type:

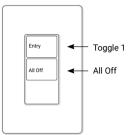
KP2

ML&C24-119319

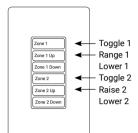
Zone Wallstation Greengate

Sample Wallstations

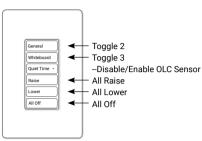
* Not All Configurations Shown



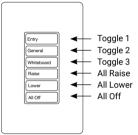
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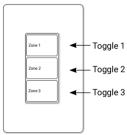
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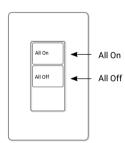
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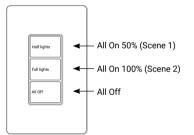
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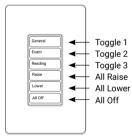
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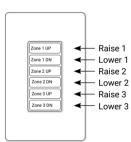
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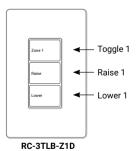
RC-3TLB-OS1



RC-6TSB-HC2



RC-6TSB-ZAD



- Toggle 2 – Raise 2 Lower 2 RC-3TLB-Z2D

Toggle 3 Raise 3 Lower 3 RC-3TLB-Z3D

Control Systems · Greengate





HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-102-W

Notes: ZONE 2

Type:

KP2

ML&C24-119319

Controls Care & Maintenance

Cooper Lighting Solutions



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- · Never spray any fluids directly into the device.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- Use a damp rag or single-use wipe to avoid excess liquid penetrating the device.
- · Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found inhousehold cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.



image for reference only

♠ WARNING

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Prolonged use may cause loss of integrity and expose electrified components.

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 or concentrated acids.
- · If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- · Remove an excess liquid remaining on the device with a dry cloth or paper towel.



Canada Sales 5925 McLaughlin Road Mississauga, Ontario L5R 1B8 P: 905-501-3000 F: 905-501-3172 © 2024 Cooper Lighting Solutions All Rights Reserved.

Product availability, specifications, and compliances are subject to change without notice.

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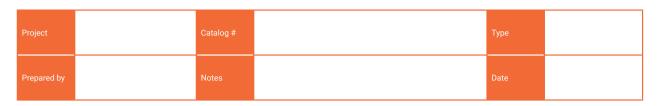
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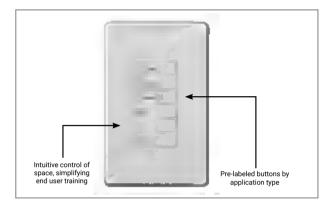
HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-103-W

Notes: ZONE 3

Type:

KP3





Greengate

Zone Wallstation

Note: Provide Wavelink CAT for review.

Interactive Menu

- Order Information page 2
- · Additional Resources page 3
- · Wiring Diagrams page 4
- · Connected Systems page 5
- · Product Warranty

Top Product Features

- · Low-voltage control for ON/OFF and dimming loads
- Available in 2, 3, 4, 5, 6 button models designed to fit in decorator wallplates (included for errors or omissions in the shop drawings or his responsibility
- · Wallstations can be used for multi-way control
- Options to meet Buy American Act requirements

Product Certification





This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent Pre-terminated control cable ready with RJ45 ports eliminate wiring errors
 in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his

for meeting all requirements of the construction and contract documents.

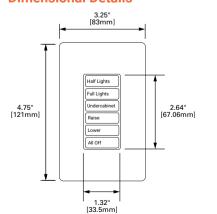
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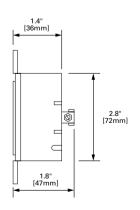
Reviewed As Noted

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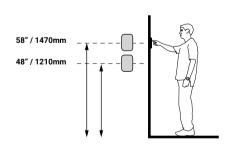
Revise and Resubmit

Dimensional Details





Mounting Height







PS503116EN page 1



Catalog Number: RC-1TLB-103-W

Notes: ZONE 3

Type:

KP3

ML&C24-119319

Greengate

Zone Wallstation

Order Information

SAMPLE ORDER NUMBER: RC-6TSB-0S3-W

One single gang color matching wallplate is included in the package. Standard button engraving shown below. Engraving appears as black text on white, ivory, and gray buttons. Engraving appears as gold text on black buttons. If white engraved text is desired on black buttons use the configurator tool with the FlashPro software.

Domestic Preferences	Catalog Number	Number of Buttons	Button Engraving	Command Reference Table	Insert Color
Domestic Preferences (1)	Catalog Number	Number of Buttons	Button Engraving ⁽³⁾	Command Reference Table (3)	Insert Color
Preferences (1) [Blank] = Standard BAA = Buy American Act	Number RC	1 2, 3 Large Buttons – TLB 4, 5, 6= Small Buttons – TSB	101 = Zone 1(1 TLB) 102 = Zone 2 (1 TLB) 103 = Zone 3 (1 TLB) 221 = Zone 1, Zone 2 (2TLB) 321 = Zone 1, Zone 2, Zone 3 (3TLB) 321 = Zone 1, Zone 2, Zone 3 (3TLB) 331 = Zone 1, Zone 2, Zone 3 (3TLB) 531 = Zone 1, Zone 2, Zone 3, Raise, Lower (5TSB) 621 = All On, Raise 1, Lower 1, Raise 2, Lower 2, All Off (6TSB) 623 = Zone 1, Raise 1, Lower 1, Zone 2, Raise 2, Lower 2 (6TSB) 631 = Zone 1, Zone 2, Zone 3, Raise, Lower, All Off (6TSB) ES1 = Entry, Al OFF (2TLB) TS1 = General, Whiteboard, Quiet Time, A/V Mode, Raise, Lower (6TSB) TS2 = General, Whiteboard, Quiet Time, A/V Mode, All OFF (5TSB) TS3 = General, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) TS5 = Entry, General, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) TS5 = Entry, General, Whiteboard, Raise, Lower, All OFF (6TSB) TS6 = Entry, General, Whiteboard, Raise, Lower, All OFF (6TSB) TS7 = Row 1, Row 2, Row 3, Raise, Lower, All OFF (6TSB)	101 = 1 102 = 2 103 = 11 221 = 1, 2 321 = 1, 2, 8 331 = 1, 2, 11 531 = 1, 2, 11, 6, 7 621 = 16, 17, 18, 19, 20, 8 623 = 1, 17, 18, 2, 19, 20 631 = 1, 2, 11, 6, 7, 8 ES1 = 1, 8 TS1 = 2, 3, 5, 4, 6, 7 TS2 = 2, 3, 5, 4, 6, 7 TS3 = 2, 3, 5, 4, 8 TS4 = 2, 3, 4, 6, 7, 8 TS5 = 1, 2, 3, 8 TS6 = 1, 2, 3, 6, 7, 8	W= White B= Black V= Ivory G= Gray
			TS8 = Uplights, Downlights, Accent, Raise, Lower, All OFF (6TSB) TS9 = Entry, General, Quiet Time, Whiteboard, A/V Mode, All OFF (6TSB) TS10 = Main, Whiteboard, A/V Mode, Raise, Lower, All OFF (6TSB) HC1 = General, Exam, Reading, All OFF (4TSB) HC2 = General, Exam, Reading, Raise, Lower, All OFF (6TSB) OS1 = Half Lights, Full Lights, All OFF (3TLB) OS2 = Half Lights, Full Lights, Raise, Lower, All OFF (5TSB) OS3 = Half Lights, Full Lights, Undercabinet, Raise, Lower, All OFF (6TSB) OS4 = All ON, All OFF (2TLB) OS4 = All ON, All OFF (2TLB) ZAD = Zone 1 UP, Zone 1 DN, Zone 2 UP, Zone 2 DN, Zone 3 UP, Zone 3 DN (6TSB) Z1D = Zone 1, Raise, Lower (3TLB) Z3D = Zone 3, Raise, Lower (3TLB) Z3D = Zone 3, Raise, Lower (3TLB)	TS8 = 1, 2, 3, 6, 7, 8 TS9 = 1, 2, 5, 3, 4, 8 TS10 = 1, 3, 4, 6, 7, 8 HC1 = 1, 2, 3, 6 HC2 = 1, 2, 3, 6, 7, 8 OS1 = 12, 13, 8 OS2 = 12, 13, 6, 7, 8 OS3 = 12, 13, 11, 6, 7, 8 OS4 = 10, 8 ZAD = 17, 18, 19, 20, 21, 22 Z1D = 1, 17, 18 Z2D = 2, 19, 20 Z3D = 3, 21, 22	

Notes



⁽¹⁾ Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

(2) For custom configurations or custom engraving, use the configurator tool within the FlashPro tool.

(3) For reference only. Commands will not be engraved onto station.



HDSB - Glenview Public School Gym

Catalog Number: RC-1TLB-103-W

Notes: ZONE 3

Type:

KP3

ML&C24-119319

Greengate

Zone Wallstation

For Reference Only

Command #	Action		
1	Toggle Load/Zone 1 (Also influences Receptacle Switchpack, Solatube, and Emergency)		
2	Toggle Load/Zone 2 (Also influences Receptacle Switchpack)		
3	Toggle Load/Zone 3		
4	Toggle A/V mode B Scene 5		
5	Disable/Re-enable Occupancy Sensor (After being disabled 60 minutes, the sensor automatically re-enables)		
6	Raise all		
7	Lower all		
8	All Loads/Zones OFF		
9	All Dimmers 50%, Relay 1 ON, Relay 2 OFF, Relay 3 unaffected DLVP-Zone 1=50%, Zone 2=OFF, Zone 3=unaffected		
10	All Loads/Zones to 100% (Solatube closed)		
11	Toggle Load/Zone 3 (influences Receptacle Switchpack)		
12	Go to Scene 1		
13	Go to Scene 2		
14	Go to Scene 3		
15	Go to Scene 4		
16	All Loads/Zones ON		
17	Raise Zone 1		
18	Lower Zone 1		
19	Raise Zone 2		
20	Lower Zone 2		
21	Raise Zone 3		
22	Lower Zone 3		

Product Specifications

Mechanical

Size: 4.75" H x 3.25" W (121mm x 83mm)

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: Less than 95%, non-condensing
- · For indoor use only

Connection Ports: Two RJ45 ports

Button Configurations:

- · Large buttons: 2 or 3
- · Small buttons: 2, 4, 5, 6

Installation:

· Standard decorator opening

Input Requirements: Class 2, LPS

Voltage: 24 VDC supplied from Room Controller

Standards/Ratings

· UL 508 Listed

Warning

- · This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Five year warranty standard





HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: RC-1TLB-103-W

Notes: ZONE 3

Type:

KP3

ML&C24-119319

Greengate

Zone Wallstation

Overview

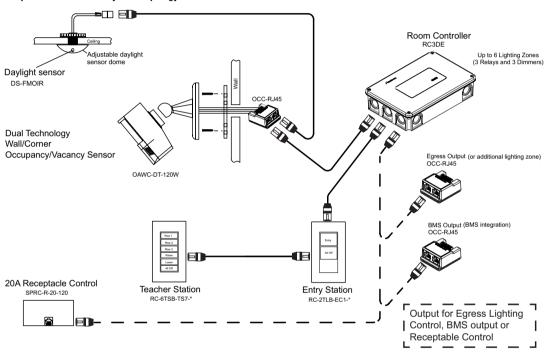
The zone wallstations are pre-engraved low-voltage switches that operate on 24 VDC power supplied by the Room Controller or DLVP power module. Each wallstation is designed to fit in a standard decorator opening and has two RJ45 ports for local network connections to eliminate wiring errors.

The zone wallstations are pre-terminated control cable (ordered separately) ready and work immediately upon power up. Zone wallstations for office, classroom, patient room, conference room and general areas are available and are fully functional out-of-the-box removing the need for field programming and reducing installation time.

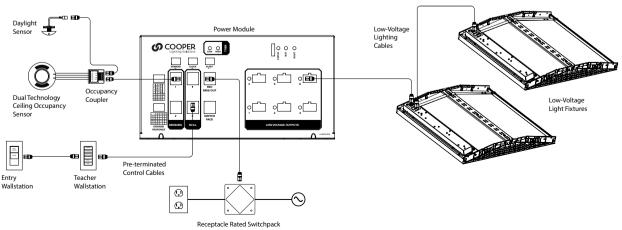
Low-voltage devices are connected using provided pre-terminated control cables (ordered separately).

Wiring Diagrams

Sample Room Controller System Topology



DLVP System Topology





HDSB - Glenview Public School Gym

Catalog Number: RC-1TLB-103-W

Notes: ZONE 3

Type:

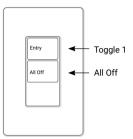
KP3

ML&C24-119319

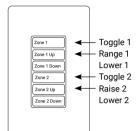
Zone Wallstation Greengate

Sample Wallstations

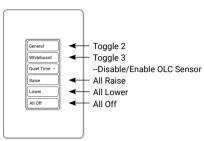
* Not All Configurations Shown



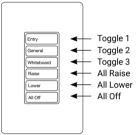
RC-2TLB-ES1



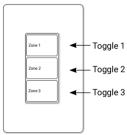
RC-6TSB-623



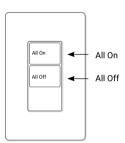
RC-6TSB-TS2



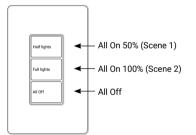
RC-6TSB-TS6



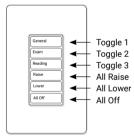
RC-3TLB-331



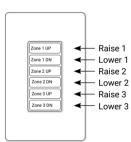
RC-2TLB-0S4



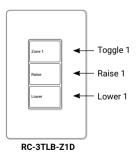
RC-3TLB-OS1



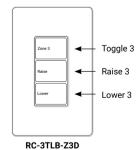
RC-6TSB-HC2

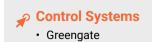


RC-6TSB-ZAD



- Toggle 2 – Raise 2 Lower 2 RC-3TLB-Z2D









HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo)

Notes: ZONE 3

Catalog Number: RC-1TLB-103-W Type: **KP3**

ML&C24-119319

Controls
Care & Maintenance

Cooper Lighting Solutions



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- · Never spray any fluids directly into the device.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- Use a damp rag or single-use wipe to avoid excess liquid penetrating the device.
- · Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found inhousehold cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.



image for reference only

↑ WARNING

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- · Never spray any fluids directly into the device.
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are
 acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline
 or concentrated acids.
- · If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- · Remove an excess liquid remaining on the device with a dry cloth or paper towel.



Canada Sales 5925 McLaughlin Road Mississauga, Ontario L5R 1B8 P: 905-501-3000 F: 905-501-3172 © 2024 Cooper Lighting Solutions All Rights Reserved.

Product availability, specifications, and compliances are subject to change without notice.

SA50317022



HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: ~WGD550

Notes:

Type:

WGD

MI &C24-119319

WGD

Project:

Contractor:

WIREGUARD & MOUNTING SHELVES

WIREGUARD

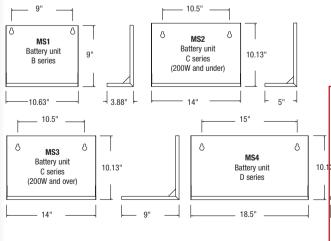
The AimLite series of steel wire guards is designed to protect valuable emergency lighting equipment from damage and abuse. The welded steel construction provides an exceptionally rigid cage and the integrated mounting loops ensure a reliable installation. Standard finish is white baked powder coat finish. Custom colours are available, please contact your AimLite representative for details.



Model	Length	Width	Depth	Description
WGD510	17.25"	17.25"	7"	Battery units 144W to 200W
WGD520	14"	10"	4.75"	Battery units 18W to 72W, wallmount EXST & EXAL
WGD540	14.5"	6.25"	10.5"	Ceiling mount EXST & EXAL
WGD550	8.5"	6"	7"	RMS1, RMS2, RMMD1, RMMD2, RMMB1 & RMMB2
WGD560	25.5"	8.5"	8"	Wallmount EXST & EXAL
WGD590	15.25"	14.25"	6.75"	Battery units 80W to 100W, wallmount CXST & CXAL
WGD600	20.25"	17.25"	8.5"	Battery units 250W to 720W
WGD620	8.5"	6"	8.5"	Remotes RMLG1, RMLW1, RMRB1
WGD630	12"	9"	9"	Remotes RMLG2, RMLW2, RMRB2
WGD660	13.75"	12.25"	16.5"	End mount EXST & EXAL, ceiling or end mount CXST & CXAL
WGD680	29.5"	6.5"	10"	Ceiling or wallmount EXST-B6L, EXAL-B6L, VP4

MOUNTING SHELVES

The AimLite series of steel mounting shelves provides a stable and durable platform for the installation of emergency lighting units. The shelves are made with heavy gauge steel and finished standard with a white baked powder coat finish. Custom colours are available, please contact your AimLite representative for details.





MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of assertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop of awings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

X	Reviewed
	Not Reviewe

Reviewed As Noted
Revise and Resubmit



1-866-348-2374 1-866-348-2374 2374 2374 2374 2374 2374

♣ 514-227-1285 • www.aimlite.com





Greengate

OAC-DT-MicroSet Dual Tech

Low Voltage Ceiling Sensor

Typical Applications

Classrooms • Conference Rooms • Office Spaces • Common Areas • Computer Rooms • Break Rooms • Hallways • Other Indoor Office Spaces

Interactive Menu

- Order Information page 2
- Additional Resources page 2
- Wiring Diagrams page 3
- · Connected Systems page 4
- · Product Warranty

Top Product Features

- · MicroSet self-adjusting Time Delay and sensitivity
- · Optional built-in light level sensor
- · Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard meeting all requirements of the construction and contract documents.
- Selectable Walk-Through Mode
- · Dual Relay control

Product Certification













This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility

X	Reviewed	Re
	Not Pavioused	Do

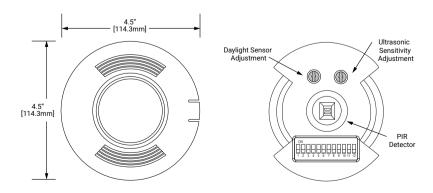
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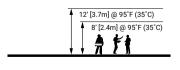
٦.				_						
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Revise and Resubmit

Dimensional and Mounting Details

Scale or Mounting Height











HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: OAC-DT-2000

Notes:

Type:

OS₂

ML&C24-119319

Greengate

OAC-DT-MicroSet

Order Information

SAMPLE ORDER NUMBER: OAC-DT-2000-R, OAC-DT-2000, OAC-DT-1000-R, OAC-DT-1000, OAC-DT0501-R, OAC-DT-0501 One single gang wallplate included

Catalog Number	Maximum Room Size	Field of View	Frequency	Features
Catalog Number	Maximum Room Size	Field of View	Freqency	Features
OAC-DT-2000-R	2,000 sq. ft.	Two Way (360°)	30 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-2000	2,000 sq. ft.	Two Way (360°)	32 kHz	
OAC-DT-1000-R	1,000 sq. ft.	Two Way (360°)	32 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-1000	1,000 sq. ft.	Two Way (360°)	32 kHz	
AC-DT-0501-R 500 sq. ft.		One Way (180°)	40 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-0501	500 sq. ft.	One Way (180°)	40 kHz	

Product Specifications

Technology

Passive Infrared (PIR) and Ultrasonic (US)

Mechanical

Size: 1.42" H x 4.5" W (36.068mm x 114.3mm)

Mounting: Mounts directly to ceiling tile, to a 4" square box and round mud ring or to 4" octagon box

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: 20% to 90% non-condensing
- For indoor use only

Housing: Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0

Electrical

Power Requirements:

- - 10-30 VDC from Greengate Switchpack or Greengate system
 - Maximum current needed is 25mA per sensor
- Output
- Open collector output to switch up to ten Greengate Switchpacks
- · BAS with Isolated Form C Relay in (-R) model
- Isolated Form C Relay Ratings: 1A 30 VDC/VAC

Hardware Specifications

LED Indicators:

Red LED for PIR detection; Green LED for Ultrasonic detection

Controls and Performance

Time delays:

Self-adjustable, 15 seconds/test (10 minutes Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay

Coverage:

500, 1000, and 2000 sq. ft.

Light sensing level (-R Models):

0 to 300 foot candles

Standards/Ratings

- cULus Listed Energy Management Equipment (UL916)
- · FCC Compliant
- · RoHS Compliant

Warranty

Five year warranty standard

Overview

The Dual Technology sensor's combination of Ultrasonic and Passive Infrared technologies offers the most complete sensing equipment available today. MicroSet selfadjusting Dual Technology sensors drastically simplify and reduce a contractor's installation and adjustment time period.

The MicroSet self-adjusting technology continuously monitors multiple sub-frequencies in the event that if a continuous Doppler shift occurs, such as those created by airflow from an air duct, the sensor will identify the noise as continuous and then block it out of view at a select sub-frequency. It will continue to monitor other subfrequencies for human motion. This avoids false-activation, while still maintaining the high level of sensitivity that is necessary for sensing minor motion in a changing environment. Separate concurrent time delays for both Passive Infrared and Ultrasonic technologies avoid false activations or deactivations. In Automatic On Mode, the lights turn ON when a person enters the room. In Manual On Mode (-R model only), the lights are turned ON by activating a momentary switch (model # GMDS-*) that is connected to the sensor. When enabled, the daylighting feature (-R models only) prevents lights from turning ON when the room is adequately illuminated by natural light.





HDSB - Glenview Public School Gym

Catalog Number: OAC-DT-2000

Notes:

Type:

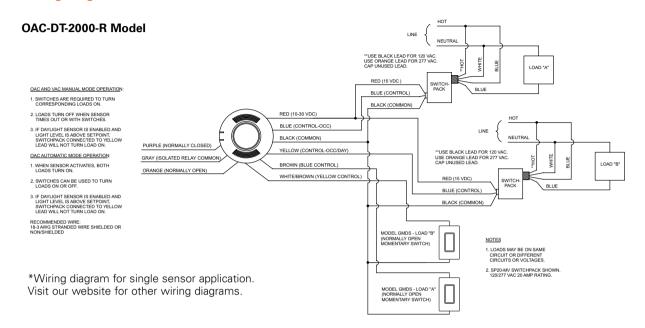
OS₂

ML&C24-119319

Greengate

OAC-DT-MicroSet

Wiring Diagrams



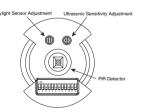
Controls

DIP Switch Legend

	Time D	ne Delay Activation			PIR Sens	sitivity Walk-Through Mode		LEDs Override		le	Sweep		Full/Half Logic		HVAC/Tracking		Zero Time Delay					
			Relay	1	Relay 2	2																
DIP Switch	1	2		3		4		5		6		7		8		9		10	11		12	
Auto*	•	•	Auto	•	Auto	•	Full	•	Disable	•	Enable	▼	Disable	•	Disable	•	Full	•	Disable	•	Disable	•
5 Minutes	▼	•	Manual	•	Manual	•	50%	•	Enable	A	Disab l e	•	Enable	•	Enable	•	Half	A	Enable	A	Enable	A
15 Minutes	A	•	(-R model	only)	(-R model	onlv)											(-R mode	el only)	(-R mod	el only)		
30 Minutes	A	A	\	•	•	• • • • • • • • • • • • • • • • • • • •											(,,	(,,		
*Self-Adjusts to			,																			

10 min. user

Default =







Catalog Number: OAC-DT-2000

Notes:

Type:

OS₂

ML&C24-119319

Greengate

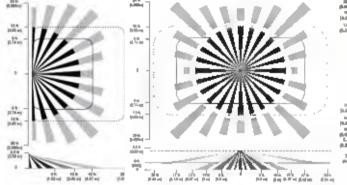
OAC-DT-MicroSet

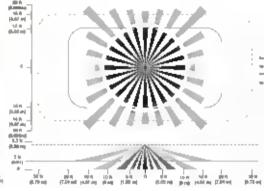
Field of View

OAC-DT-0501-R 500 sq. ft.

OAC-DT-1000-R 1,000 sq. ft.

OAC-DT-2000-R 2,000 sq. ft.





Maximum core rage area may may operated appointing to our ringer and the presence of allerted The MENA WP F Guido and minute mount were without to we'lly acromage patients.

Ceiling Height = 8.5 ft

Control Systems Greengate



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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Specifications and dimensions subject to change without notice.

PS503108EN page 4

Project	Catalog #	Туре	
Prepared by	Notes	Date	



Interactive Menu

- Order Information page 2
- Additional Resources page 2
- Wiring Diagrams page 3
- Product Warranty

Greengate

ONW-D-1001 Wall Switch Sensor with Ground Required

Dual Tech, Single Pole, 120/277/347 VAC Wall Switch Occupancy Sensor (Ground Required)

Typical Applications

Office • Small Conference Rooms • Lunch/Break Rooms • Classrooms • Restrooms (1-2 Stalls) • Lounges • Waiting Rooms • Closets • Storage Areas

Product Certification







Product Features









Overview

The Dual Technology Single Level Occupancy Sensing Wall Switch is a motion sensing lighting control and conventional wall switch all-in-one that is used to for energy savings and convenience. It does not require a neutral wire for installation making it ideal for retrofit applications.

The ONW-D-1001-MV combines Ultrasonic (US) and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. In Automatic On Mode, the lights turn ON automatically when a person enters the room. In Manual On Mode, the lights are turned ON by pressing the universally recognized light icon pushbutton. The sensor includes self-adaptive technology that continuously self-adjusts sensitivity and time delay in real-time, maximizing the potential energy savings that are available in the particular application.

Top Product Features

- · Air-gap switch ensures no leakage current to load
- · Selectable built-in light level sensor
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- LED Rated



MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

X	Reviewed
	Not Reviewed

Reviewed As Noted
Revise and Resubmi





HDSB - Glenview Public School Gym

Catalog Number: ONW-D-1001-MV-W

Notes:

Type: **\$WOS**

ML&C24-119319

Greengate

ONW-D-NeoSwitch

Order Information

SAMPLE ORDER NUMBER: ONW-D-1001-MV-W

One single gang wallplate included.

Catalog Number

Catalog Number	Ratings	Coverage	Voltage		Color
ONW-D-1001-MV- * (*-W, V, LA, G, B, R)	Incandescent: 0-800W @ 120V Fluorescent: 0-1200W @ 120V Fluorescent: 0-2700W @ 277V Max Load/Relay	180°; 1000 sq. ft.	120/277 VAC, 50/60 Hz	W=White,	/=lvory, LA=Light Almond, G=Gray, B=Black, R=Red
				Not all colo extended le	Notes rs are available in stock and some color options may have ad times.

SAMPLE ORDER NUMBER: ONW-D-1001-347-W

One single gang wallplate included. Wallplate not included with 347 VAC Model.

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
ONW-D-1001-347- * (*-W, V, LA, G, B, R)	Incandescent: 0-1500W @ 347V Fluorescent: 0-1500W @ 347V Max Load/Relay	180°; 1000 sq. ft.	347 VAC, 50/60 Hz	W=White, V=Ivory, LA=Light Almond, G=Gray, B=Black, R=Red
				Notes Not all colors are available in stock and some color options may have extended lead times.

Product Specifications

· Passive Infrared (PIR) and Ultrasonic (US) technology

Mechanical

Mounting Plate/Strap Dimensions: 4.195" H x 1.732" W (106.55mm x 44mm) Mounting Plate/Strap Dimensions: ONW-D-1001-347: 4.35" H x 1.732" W (110.49mm x 44mm)

Product Housing Dimensions: 2.618" H x 1.752" W x 1.9" D (66.5mm x 44.5mm x 48.26mm)

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: 20% to 90% non-condensing
- For indoor use only

Housing: Durable, injection molded housing. ABS resin complies with UL 94V-0 Mounting: Fits in a standard 3.5" deep back box Can be mounted in multiple gang back box Refer to NEC box calculation for properly sized mounting box

Electrical

Electrical ratings (per relay):

- 120 VAC
- Incandescent / Tungsten max load: 6.7 amps, 800W, 50/60 Hz
- Fluorescent / Ballast max load: 10 amps, 1200W, 50/60 Hz
- Electronic Ballast (LED): 3A
- Motor Load: 1/4 HP @ 125 VAC
- 277VAC
- Fluorescent / Ballast max load: 9.8 amps, 2700W, 50/60 Hz
- Electronic Ballast (LED): 3A
- - Fluorescent / Ballast max load: 4.3 amps, 1500W, 50/60 Hz
 - · Electronic Ballast (LED): 3A

Ballast compatibilty:

- LED loads
- Magnetic and Electronic ballasts

Hardware Specifications

LED Indicators:

- Red LED = PIR detection
- Green LED = Ultrasonic detection

Controls and Performance

Time delays:

- Self adjusting 15 seconds/test (10 min. Auto)
- Selectable 5, 15, 30 minutes

Coverage:

- · Major motion: 36' x 30'
- Minor motion: 20' x 16'

Light sensing level:

· 0 to 200 foot candles

Standards/Ratings

- cULus Listed Energy Management Equipment (UL916)
- FCC Compliant
- RoHS Compliant

Warranty

Five year warranty standard



HDSB - Glenview Public School Gym

Addition Engineer: DEI & Associates (Waterloo)

Catalog Number: ONW-D-1001-MV-W

Notes:

Type: **\$WOS**

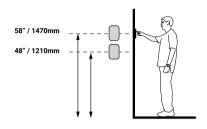
Greengate

ONW-D-NeoSwitch

Dimensional and Mounting Details

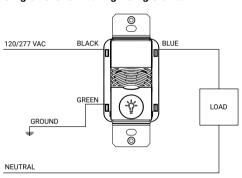


Scale or Mounting Height

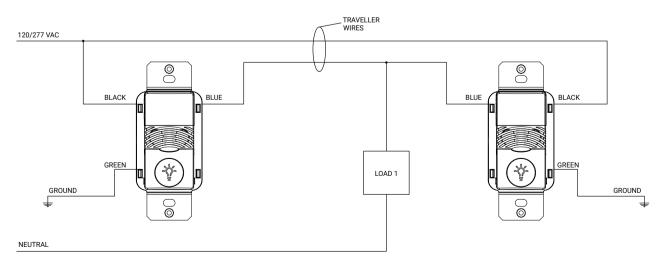


Wiring Diagrams

Single Level Switching - Single Circuit



Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.



* For 347 VAC wiring diagrams refer to Installation Instructions



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HDSB - Glenview Public School Gym Addition Engineer: DEI & Associates (Waterloo) Catalog Number: ONW-D-1001-MV-W

Notes:

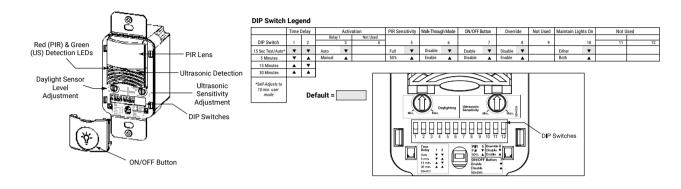
Type: \$WOS

ML&C24-119319

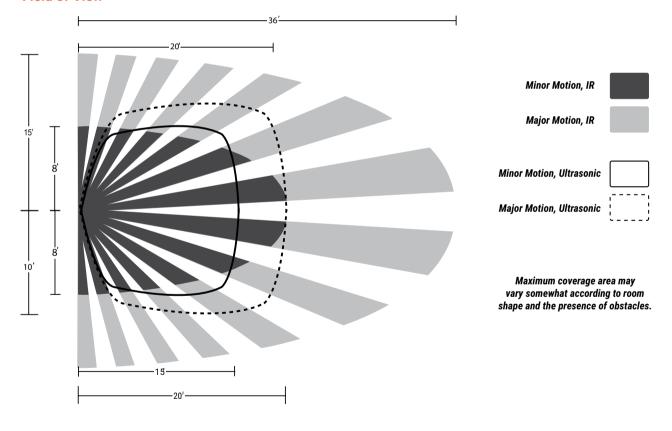
Greengate

ONW-D-NeoSwitch

Controls



Field of View







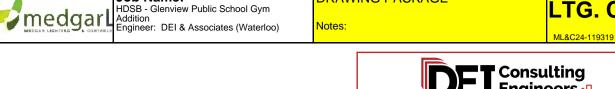
Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.CooperLS.com © 2023 Cooper Lighting Solutions All Rights Reserved.

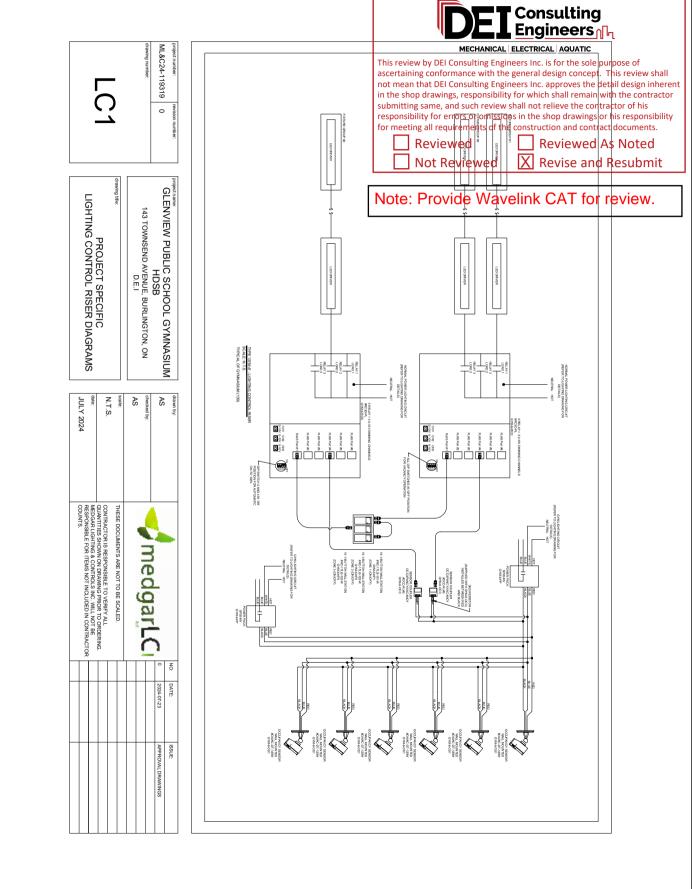
Specifications and dimensions subject to change without notice.

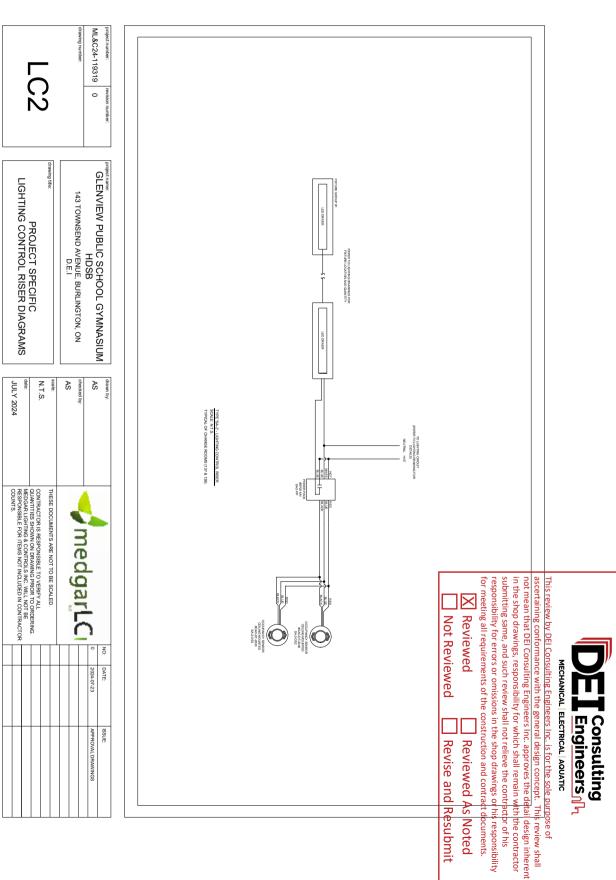
PS503105EN **page 4**August 2023

Notes:

Type: LTG. CTRL.







Submitted by Medgar Lighting & Controls Inc **Catalog Number:** Type: Job Name:
HDSB - Glenview Public School Gym
Addition
Engineer: DEI & Associates (Waterloo) DRAWING PACKAGE LTG. CTRL. Notes: ML&C24-119319 ML&C24-119319 0 GLENVIEW PUBLIC SCHOOL GYMNASIUM HDSB 143 TOWNSEND AVENUE, BURLINGTON, ON D.E.I PROJECT SPECIFIC LIGHTING CONTROL RISER DIAGRAMS N.T.S. AS AS JULY 2024 CONTRACTOR IS RESPONSIBLE TO VERIPY ALL
QUANTITIES SHOWN ON DRAWING PRIOR TO ORDERING.
MEDICAR LIGHTING & CONTROLS INC: WILL LOYD BE
RESPONSIBLE FOR ITEMS NOT INCLUDED IN CONTRACTOR
COUNTS. THESE DOCUMENTS ARE NOT TO BE SCALED **⊘**medgar**LC** for meeting all requirements of the construction and contract responsibility for errors or omissions in the shop drawings or his submitting same, and such review shall not relieve the contra in the shop drawings, responsibility for which shall remain with the contractor ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent This review by DEI Consulting Engineers Inc. is for the sole purpose of Reviewed **Not Reviewed** MECHANICAL | ELECTRICAL | AQUATIC 2024-07-23 Consulting Engineers nh Revise and Resubmit Reviewed As Noted ctor of his documents. responsibility