

Transmittal

Lighting Solutions
10 Veterans Square
Media PA 19063
Phone: (610) 891-1433
From: Beth Romasky

Project JAMES T VAUGHN CORR CTR
Quote# LTSRC16-37229
Location DOVER DE
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input checked="" type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Type	MFG	Part
A	Lumark	SSLED-LD1-24-W-UNV-L850-CD2-PC6/277-SVPD3-U / SSLED-SA23-U / ISHH-01
	Item Note:	CONFIRM SINGLE VOLT
B	Metalux	22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U
B1	Metalux	22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / EBPLED7W
C	Metalux	22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / SK-22-WS
C1	Metalux	22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / EBPLED7W / SK-22-WS
D	Failsafe	FMS-X12-4-LD4-2LO-40-UNV-82-EDD1-SSN
D1	Failsafe	FMS-X12-4-LD4-2LO-40-UNV-82-EDD1-SSN / EBPLED7W
F	Lumark	LDWP-GL-4B-ED-PE / TR/WP / WG/WPGL
G	Failsafe	FCC-X-4-LD4-2LO-40-UNV-81/84-EDD1-WL-SSN
G1	Failsafe	FCC-X-4-LD4-2LO-40-UNV-81/84-EDD1-WL-SSN / EBPLED7W
H	McGraw-Edison	GLEON-AF-08-LED-E1-T3-BZ-ADJS-R / OA/RA1016
	Item Note:	LESS 4 FT CORD
E	Sure-Lites	LEM2BKSD
E	Sure-Lites	WG10
E	Sure-Lites	LEMR2BK
	Item Note:	CONFIRM FINISH
X	Sure-Lites	UX6095RBK / UXUKBK / UXPKA
X	Sure-Lites	UX6095RBK / UXUKBK / UXPKA

Metalux

DESCRIPTION

The Steeler LED is designed for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs and color temperatures make the Steeler LED ideal for industrial, commercial, manufacturing, gymnasium⁽⁹⁾ and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary discrete, low-brightness LED module assembly offers exceptional optical performance with the enhanced benefits of LED lighting, including energy savings, extended system life, a reduced carbon footprint.

SPECIFICATION FEATURES

Construction

Diecast aluminum lower housing provides added protection for LED components and optimal performance. Upper driver housing consist of heavy gauge CRS for durability and thermal control.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500K, 4000K and 5000K with a CRI ≥ 80. cULus listed. Electronic drivers are available for 120-277V, 347V and 480V applications. Standard 0-10V dimming. Or, specify the Digital Addressable Lighting Interface (DALI) drivers for use with Fifth Light controls.

Finish

Standard white polyester powder coat finish painted after fabrication for increased durability and rust inhibition.

Optics

Precision designed, high-impact polycarbonate optics deliver even illumination. Narrow, medium and wide distribution ensures superior performance to key areas within an application. Additional performance options include a low profile optical shroud and uplight reflector. IP65 rated optics.

Options

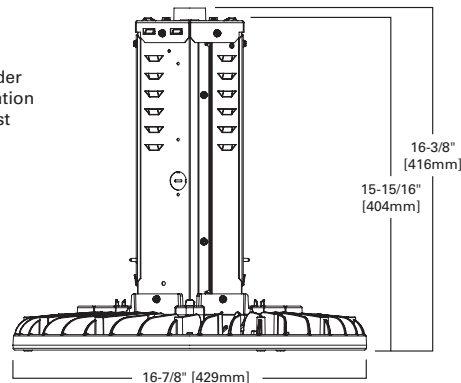
Integral Occupancy Sensor available and provides 1200 sq. ft. of coverage in a maximum mounting height of 30'.

Mounting

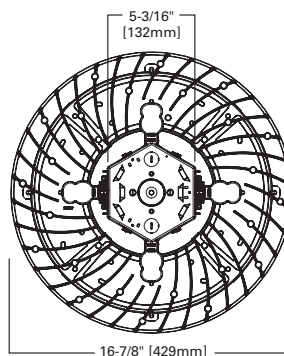
The SSLED series is ideally suited for suspension mounting with various mounting options.

Compliance

Luminaires are cULus listed for damp locations -20°C - 55°C ambient environments with 0-10V drivers (see chart). RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.



DIMENSION TOP VIEW


**SS
LED**

LED Round High Bay



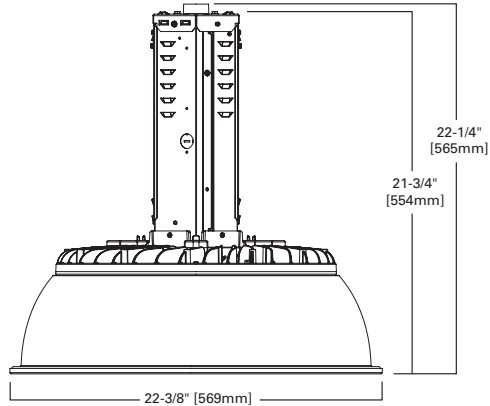
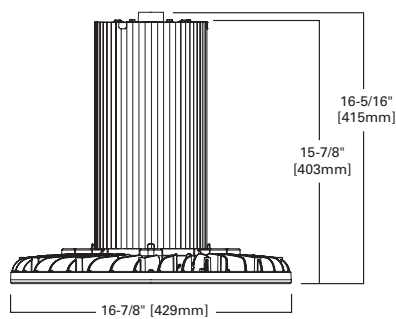
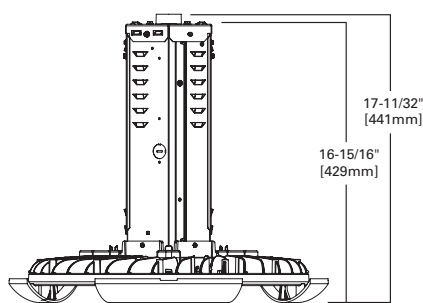
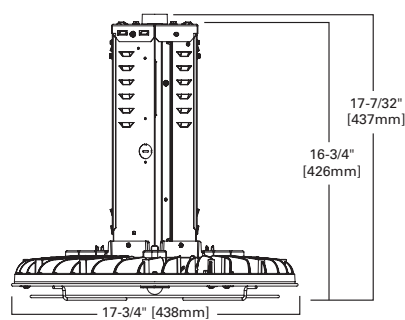
ENERGY DATA

Input Watts:

12 (12,000 lumens)=106W
 18 (18,000 lumens)=162W
 24 (24,000 lumens)=224W
 28 (28,000 lumens)=271W

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power

SSLED**ACCESSORIES**
SSLED-W/ SHROUD ACCESSORY KIT
 (KIT: SSLED-SA23-U)

SSLED-W/ROUND DECO SHIELD
 (KIT: SSLED-DECO-U)

SSLED-W/ UPLIGHT ACCESSORY KIT
 (KIT: SSLED-UPL-U)

SSLED-W/ WIRE GUARD
 (KIT: SSLED-WGRD-U)
**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
55°C	> 83%	> 121,000

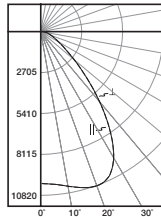
LUMEN PACKAGES AND AMBIENT TEMPERATURE

Lumen	40°C	50°C	55°C
12	STD	STD	STD
18	STD	HT (CD2)	HT (CD2)
24	STD	HT	N/A
28	STD	N/A	N/A

Modular Power Supply Option

1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate.
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply.

Eaton's Modular Power Supply option is available for use with the SSLED. The modular power supply allows external fixture access for safe and easy servicing. Access to the individual fixture's power supply allows servicing without turning off all the fixtures disrupting occupants. Eaton's Modular Power Supply is a time saver in installation – **simply plug & power.**

SSLED**PHOTOMETRICS**
**SSLED-LD1-18-M-UNV-
L840-CD1-U**

Electronic Driver

Linear LED 4000K

Spacing criterion: (II) 1.3 x mounting height,

(⊥) 1.3 x mounting height

Lumens: 19,436

Input Watts: 162W

Efficacy: 120.0 lm/W

Test Report: SSLED-LD1-18-M-UNV-L840-CD1-U.IES

Coefficients of Utilization

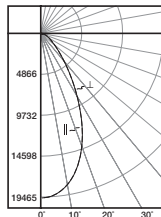
Effective floor cavity reflectance															20%				
rc	80%				70%				50%				30%			10%			0%
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
rw																			
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57	
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51	
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	

Candlepower

Degree	CP
0	10044
5	10132
15	10678
25	10520
35	7734
45	3888
55	1645
65	772
75	367
85	108
90	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	8787	45.2
0-40	13569	69.8
0-60	18139	93.3
0-90	19436	100.0
0-180	19436	100.0


**SSLED-LD1-18-N-UNV-
L840-CD1-U**

Electronic Driver

Linear LED 4000K

Spacing criterion: (II) 0.8 x mounting height,

(⊥) 0.8 x mounting height

Lumens: 19101

Input Watts: 162W

Efficacy: 117.9 lm/W

Test Report: SSLED-LD1-18-N-UNV-L840-CD1-U.IES

Coefficients of Utilization

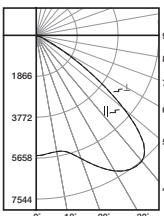
Effective floor cavity reflectance													20%						
rc rw RCR	80%				70%				50%				30%			10%			0%
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82	
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75	
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68	
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58	
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54	
8	74	64	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51	50	
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47	
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44	

Candlepower

Degree	CP
0	19469
5	19076
15	16205
25	10936
35	5568
45	2497
55	1219
65	671
75	376
85	142
90	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	11267	59.0
0-40	14782	77.4
0-60	17877	93.6
0-90	19101	100.0
0-180	19101	100.0


**SSLED-LD1-18-W-UNV-
L840-CD1-U**

Electronic Driver

Linear LED 4000K

Spacing criterion: (II) 1.9 x mounting height,

(⊥) 1.9 x mounting height

Lumens: 19229

Input Watts: 162W

Efficacy: 118.7 lm/W

Test Report: SSLED-LD1-18-W-UNV-L840-CD1-U.IES

Coefficients of Utilization

Effective floor cavity reflectance													20%			
rc rw	80%				70%				50%				30%			0%
	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
RCR	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	88	
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	76	
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	65	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	57	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	49	
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	43	
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	38	
8	63	50	41	36	61	49	41	36	48	41	36	46	40	35	33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	30	
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	26	

Candlepower

Degree	CP
0	5501
5	5449
15	5528
25	6613
35	7497
45	6973
55	3260
65	704
75	261
85	91
90	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	5185	27.0
0-40	9865	51.3
0-60	18050	93.9
0-90	19229	100.0
0-180	19229	100.0

SSLED**ORDERING INFORMATION**

SAMPLE NUMBER: SSLED-LD1-24-M-UNV-840-CD2-WHT-U

Series ⁽¹¹⁾ SSLED=LED High Bay LED Type LD1=LED 1.0 LED Lumen Output 12=12,000 Lumens 18=18,000 Lumens 24=24,000 Lumens 28=28,000 Lumens Ambient Rating [Blank]=Standard Ambient HT=High Ambient (18, 24 only) Distribution N=Narrow M=Medium W=Wide	Voltage UNV=Universal Voltage 120-277 UNC=Universal Voltage 347/480 ⁽⁴⁾ CCT L835=3500K L840=4000K L850=5000K Options Emergency EL20W-REM=Emergency Installed, Remote, 20 Watts ^{(2), (3), (4)} Driver Type CD=0-10V Dimming Driver SLTD=Fltch Light DALI ⁽⁵⁾ Number of Drivers 1=1 Driver (12, 18) 2=2 Drivers (18HT, 24, 24HT, 28)	Color [Blank]=White GRV=Gray BLK=Black Mounting Type ^{(11), (8)} [Blank]=3/4" Threaded Hub SHK=Fixture Hook ⁽⁸⁾ TCB=Top Connector Box ^{(8), (8)} TCB/SHK=Top Connector Box with Die-cast Aluminum Fixture Hook TCB/FL-1=Top Connector Box with Fixture Loop MP=Modular Plug (1 Circuit) ⁽¹²⁾ MP/SHK=Modular Plug with Fixture Hook (supplied) MP/FL-1=Modular Plug with Fixture Loop (supplied) Wiring 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 PC3/120=(NEMA L5-15P) 3' Cord with NEMA Plug ⁽⁸⁾ PC3/347=(NEMA L24-20P) 3' Cord with NEMA Plug ⁽⁸⁾ PC3/480=(NEMA L8-20P) 3' Cord with NEMA Plug ⁽⁸⁾ PC6/120=(NEMA L5-15P) 6' Cord with NEMA Plug ⁽⁸⁾ PC6/277=(NEMA L7-15P) 6' Cord with NEMA Plug ⁽⁸⁾ PC6/347=(NEMA L24-20P) 6' Cord with NEMA Plug ⁽⁸⁾ PC6/480=(NEMA L8-20P) 6' Cord with NEMA Plug ⁽⁸⁾	Options SVPD3=Integrated Occupancy and Daylight Sensor, 1200 sq. ft. Coverage ⁽⁷⁾ Accessories (order separately) SSLED-SA23-U=Aluminum Shroud ⁽¹⁰⁾ SSLED-WG17-U=Wireguard ⁽¹⁰⁾ WG22=Wireguard for use with SA23 ⁽¹⁰⁾ SHK=Fixture Hook FL-1=Fixture Loop 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 SSLED-DECO-U=Round Deco Kit ⁽⁶⁾ SSLED-UPL-U=Uplight Kit ⁽¹⁰⁾ ISHH-01=Programming Remote for Integrated Sensor ISHH-02=Personal Control Remote for Integrated Sensor	Packaging U=Unit Pack
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NOTES: ⁽¹⁾ TCB and MP cannot be ordered at the same time. ⁽²⁾ Battery pack must be remote mounted 1 ft. off-center from fixture to building structure or an electrical enclosure. ⁽³⁾ No EL with TCB. ⁽⁴⁾ No EL with UNC drivers. ⁽⁵⁾ DALI and EL20W up to 40°C only (no HT). ⁽⁶⁾ Deco shield can be used up to 24,000 lumens (40°C temp.). ⁽⁷⁾ Eaton sensor SVPD3 available in UNV only. ⁽⁸⁾ SHK or FL-1 must be ordered factory installed for PC option. ⁽⁹⁾ Rigid mount not for use in gymnasiums. ⁽¹⁰⁾ Uplight Kit not compatible with SA23 Shroud, WG17 or WG22 wireguards. ⁽¹¹⁾ DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages), refer to www.designlights.org for details. ⁽¹²⁾ MP option to be paired with MPC and MC power cord accessory.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
SSLED-LD1-12	19 lbs.
SSLED-LD1-18	19 lbs.
SSLED-LD1-24	19 lbs.
SSLED-LD1-27	19 lbs.

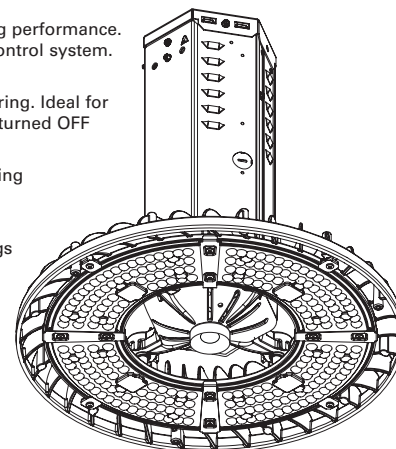
SSLED**INTEGRATED SENSOR**

The Steeler LED with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally these types of energy savings required coordination between the luminaire and a lighting control system. The Steeler LED delivers superior lighting with integrated occupancy and daylighting controls.

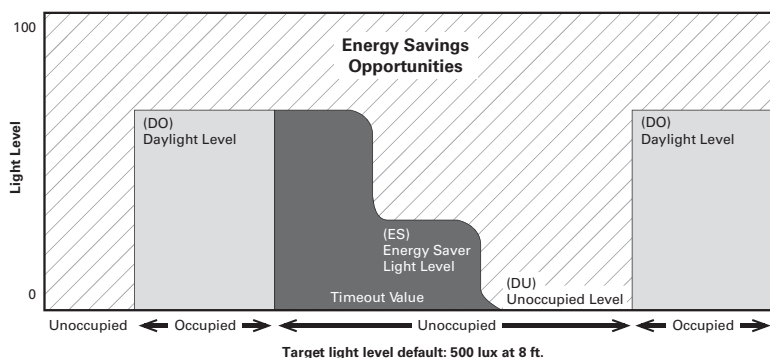
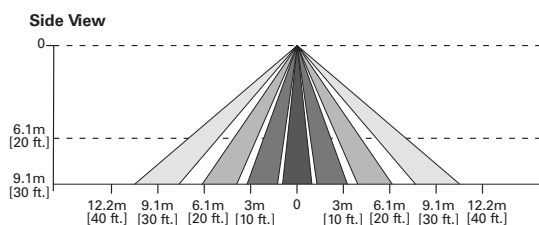
Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit the Steeler LED delivers automatic ON to an energy saving light level, while turned OFF when the space is unoccupied.

Occupied light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Steeler LED with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

**How it works:**

- As the user enters the space controlled by the integral sensor, the lighting turns ON to full light output. This can be changed using the optional remote.
- Lighting will remain at that the occupied level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.

**SVPD3 Coverage Pattern****Optional Remote Controls****ISHH-01 Remote****ISHH-02 Remote**

Metalux

DESCRIPTION

GRLED is a recessed lensed troffer series which offers a high quality luminaire dedicated with the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GRLED is compatible with all of today's popular ceiling systems and is available with a number of shielding options and accessories for application versatility.

The GRLED series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Gridlock feature for safety and convenience.

Controls

The GRLED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with typical CRI 85. Projected life

is 60,000 hours at 90% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming driver is standard.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and driver cover finished with new 90% reflective white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Optical Shielding

Die formed, flat steel door with frost #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability. Primary stocking skus come standard with robust - .125 lens.

Compliance

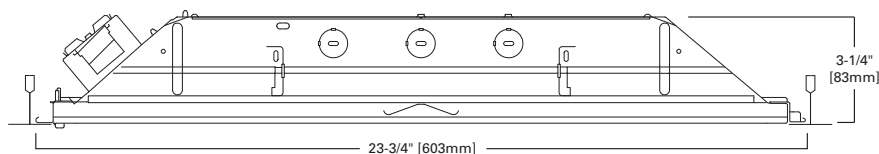
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.



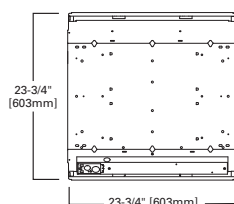
22GR LED

2' X 2' LED TROFFER

General Recessed LED Troffer
For Use in Insulated Ceilings



MOUNTING DATA

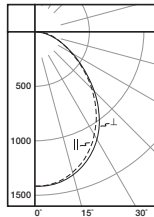


DOOR FRAMES



CEILING COMPATIBILITY

Grid/Lay-in Standard	G Concealed T	G Slot Grid	Ceiling Type	Trim Type
			Exposed Grid	G
			Concealed T	G
			Slot Grid	G
(Verify compatibility/ consult factory.)				

22GRLED**PHOTOMETRICS**
**22GR-LD4-32-F1-
UNV-L835-CD1-U**

Dimming Driver

Linear LED 3500K

 Spacing criterion:
 (II) 1.1 x mounting
 height, (L) 1.2 x
 mounting height

Lumens: 3212

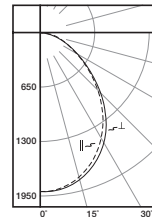
Input Watts: 33.2W

Efficacy: 96.7 lm/W

Test Report:

 22GR-LD4-32-F1-
 UNV-L835-CD1-U.IES
Candlepower

Angle	Along II	45°	Across L
0	1411	1411	1411
5	1404	1401	1410
10	1377	1377	1389
15	1328	1334	1350
20	1264	1273	1295
25	1180	1196	1223
30	1080	1101	1131
35	973	992	1020
40	853	867	893
45	730	739	757
50	604	611	624
55	486	489	503
60	378	379	390
65	295	286	293
70	226	211	218
75	170	155	155
80	119	106	103
85	65	55	54
90	0	0	0


**22GR-LD4-43-F1-
UNV-L835-CD1-U**

Dimming Driver

Linear LED 3500K

 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.2 x
 mounting height

Lumens: 4310

Input Watts: 50.5W

Efficacy: 85.3 lm/W

Test Report:

 22GR-LD4-43-F1-
 UNV-L835-CD1-U.IES
Candlepower

Angle	Along II	45°	Across L
0	1892	1892	1892
5	1884	1879	1892
10	1845	1846	1863
15	1782	1788	1814
20	1693	1708	1739
25	1582	1604	1639
30	1452	1477	1516
35	1306	1327	1368
40	1142	1161	1199
45	976	991	1020
50	808	821	842
55	651	653	672
60	509	511	523
65	392	384	393
70	302	285	290
75	230	208	209
80	160	141	140
85	88	75	71
90	0	0	0

Coefficients of Utilization

		Effective floor cavity reflectance										20%										
rc rw RCR		80%				70%				50%				30%				10%				0%
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1		110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2		100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3		92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62			
4		85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54			
5		78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48			
6		73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42			
7		68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38			
8		63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34			
9		59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31			
10		56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28			

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1061	33.0
0-40	1680	52.3
0-60	2691	83.8
0-90	3212	100.0
0-180	3212	100.0

Coefficients of Utilization

		Effective floor cavity reflectance								20%													
rc rw RCR		80%				70%				50%				30%				10%				0%	
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	0			
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1		110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2		100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				
3		92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62				
4		85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54				
5		78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48				
6		73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42				
7		68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				
8		63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				
9		59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				
10		56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1423	33.0
0-40	2254	52.3
0-60	3611	83.8
0-90	4310	100.0
0-180	4310	100.0

ORDERING INFORMATION

SAMPLE NUMBER: 22GR-LD4-27-F1-UNV-L835-CD1-U

Rating Blank=Standard ATW-SW4=Chicago Rated	LED Type LD4=LED 4.0	Voltage ⁽²⁾ UNV=Universal Voltage 120-277 ⁽³⁾	Driver Type CD=0-10V Dimming Driver (10% - 100% Dimming) HCD=0-10V Dimming Driver (1% - 100% Dimming) SD=Step-Dim Driver ⁽⁶⁾ 5LTD=5th Light DALI Driver (10% - 100% Dimming) ⁽⁶⁾	Options PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims ^{(6), (7)}	Packaging U=Unit Pack PALC=Palletized Fixtures In Carton
Width / Length 22=2' x 2'	LED Lumens Output ⁽⁵⁾ Stock 24=2400 32=3200 43=4300 MTQ 20=2000 28=2800 36=3600 40=4000	Options GL=Single Element Fuse GM=Double Element Fuse Emergency EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁴⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁴⁾ GTD2=Bodine Generator Transfer Device ⁽¹⁰⁾ ETS2=OTA Emergency Transfer Switch ⁽¹⁰⁾	Number of Drivers 1=1 Driver		
Trim Type G=Grid/Lay-in (Standard) ⁽¹⁾ G=Concealed I G=Slot Grid	Shielding F1=A12 .125 HP (Standard) A=A12 .095 A125=A12 .125 A19/156=#19 Pattern Acrylic (.156" Thick)	CCT L830=3000K L835=3500K L840=4000K L850=5000K Flex Multiple Configurations Available			
Series ⁽⁹⁾ R=General Purpose Troffer	Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flush White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum				

 NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾ Products also available in non-US voltages and frequencies for international markets.

⁽³⁾ Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾ With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. ⁽⁵⁾ Nominal lumen output. ⁽⁶⁾ Gasketing only available with aluminum door frame. ⁽⁷⁾ Gasketing minimum .125. ⁽⁸⁾ Step-Dim (Bi-Level) and Fifth Light (DALI) only available for 3,200 lumen and above. ⁽⁹⁾ DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.

⁽¹⁰⁾ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.	Pallet
22GR-LD4-32	10 lbs.	48
22GR-LD4-43	10 lbs.	48

Submitted by Lighting Solutions		Catalog Number: 22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U	Type: B
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Notes:	LTSRC16-37229

22GRLED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22GR-LD4-20-F1-UNV-L8XX-CD1-U	2084	20.10	103.68
Stock	22GR-LD4-24-F1-UNV-L8XX-CD1-U	2432	23.78	102.27
MTO	22GR-LD4-28-F1-UNV-L8XX-CD1-U	2804	28.13	99.68
Stock	22GR-LD4-32-F1-UNV-L8XX-CD1-U	3212	33.15	96.89
MTO	22GR-LD4-36-F1-UNV-L8XX-CD1-U	3598	38.86	92.59
MTO	22GR-LD4-40-F1-UNV-L8XX-CD1-U	4016	45.31	88.63
Stock	22GR-LD4-43-F1-UNV-L8XX-CD1-U	4310	50.43	85.47

*Stocked in both 3500K and 4000K. Made to order (MTO) requires a typical four week lead time.

Metalux**DESCRIPTION**

GRLED is a recessed lensed troffer series which offers a high quality luminaire dedicated with the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GRLED is compatible with all of today's popular ceiling systems and is available with a number of shielding options and accessories for application versatility.

The GRLED series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

SPECIFICATION FEATURES**Construction**

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Gridlock feature for safety and convenience.

Controls

The GRLED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with typical CRI 85. Projected life

is 60,000 hours at 90% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming driver is standard.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and driver cover finished with new 90% reflective white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Optical Shielding

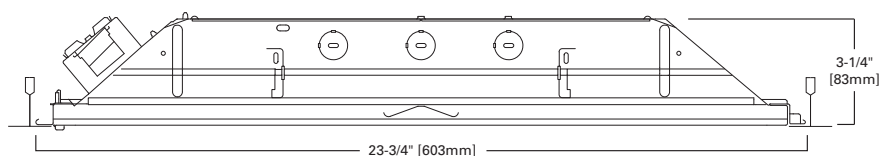
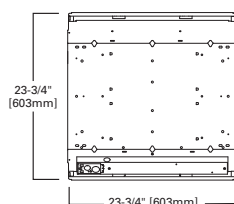
Die formed, flat steel door with frost #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability. Primary stocking skus come standard with robust - .125 lens.

Compliance

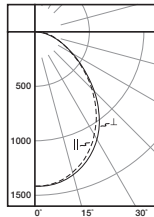
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.

**22GR LED****2' X 2' LED TROFFER**

General Recessed LED Troffer
For Use in Insulated Ceilings

**MOUNTING DATA****DOOR FRAMES****CEILING COMPATIBILITY**

Grid/Lay-in Standard	G Concealed T	G Slot Grid	Ceiling Type	Trim Type
			Exposed Grid	G
			Concealed T	G
			Slot Grid	G
(Verify compatibility/ consult factory.)				

22GRLED**PHOTOMETRICS**
**22GR-LD4-32-F1-
UNV-L835-CD1-U**

Dimming Driver

Linear LED 3500K

Spacing criterion:

(II) 1.1 x mounting

height, (L) 1.2 x

mounting height

Lumens: 3212

Input Watts: 33.2W

Efficacy: 96.7 lm/W

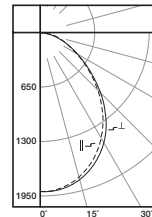
Test Report:

22GR-LD4-32-F1-

UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	1411	1411	1411
5	1404	1401	1410
10	1377	1377	1389
15	1328	1334	1350
20	1264	1273	1295
25	1180	1196	1223
30	1080	1101	1131
35	973	992	1020
40	853	867	893
45	730	739	757
50	604	611	624
55	486	489	503
60	378	379	390
65	295	286	293
70	226	211	218
75	170	155	155
80	119	106	103
85	65	55	54
90	0	0	0


**22GR-LD4-43-F1-
UNV-L835-CD1-U**

Dimming Driver

Linear LED 3500K

Spacing criterion:

(II) 1.2 x mounting

height, (L) 1.2 x

mounting height

Lumens: 4310

Input Watts: 50.5W

Efficacy: 85.3 lm/W

Test Report:

22GR-LD4-43-F1-

UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	1892	1892	1892
5	1884	1879	1892
10	1845	1846	1863
15	1782	1788	1814
20	1693	1708	1739
25	1582	1604	1639
30	1452	1477	1516
35	1306	1327	1368
40	1142	1161	1199
45	976	991	1020
50	808	821	842
55	651	653	672
60	509	511	523
65	392	384	393
70	302	285	290
75	230	208	209
80	160	141	140
85	88	75	71
90	0	0	0

Coefficients of Utilization

		Effective floor cavity reflectance								20%															
rc rw	RCR	80%				70%				50%				30%				10%				0%			
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10							
0	1	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73						
2	3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62						
3	4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54						
4	5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48						
5	6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42						
6	7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38						
7	8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34						
8	9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31						
9	10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28						

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1061	33.0
0-40	1680	52.3
0-60	2691	83.8
0-90	3212	100.0
0-180	3212	100.0

Coefficients of Utilization

		Effective floor cavity reflectance										20%											
rc rw RCR		80%				70%				50%				30%				10%				0%	
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0				
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1		110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2		100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				
3		92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62				
4		85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54				
5		78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48				
6		73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42				
7		68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				
8		63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				
9		59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				
10		56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1423	33.0
0-40	2254	52.3
0-60	3611	83.8
0-90	4310	100.0
0-180	4310	100.0

ORDERING INFORMATION

SAMPLE NUMBER: 22GR-LD4-27-F1-UNV-L835-CD1-U


Rating Blank=Standard ATW-SW4=Chicago Rated	LED Type UNV=LED 4.0	Voltage ⁽²⁾ UNV=Universal Voltage 120-277 ⁽³⁾	Driver Type CD=0-10V Dimming Driver (10% - 100% Dimming) HCD=0-10V Dimming Driver (1% - 100% Dimming) SD=Step-Dim Driver ⁽⁶⁾ SLTD=Step-Dim DALI Driver (10% - 100% Dimming) ⁽⁶⁾	Options PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims ^{(6), (7)}	Packaging U=Unit Pack PALC=Palletized Fixtures In Carton
Width / Length 22=2' x 2'	LED Lumens Output ⁽⁵⁾ Stock 24=2400 32=3200 43=4300 MTO 20=2000 28=2800 36=3600 40=4000	Options GL=Single Element Fuse GM=Double Element Fuse Emergency EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁴⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁴⁾ GTD2=Bodine Generator Transfer Device ⁽¹⁰⁾ ETS2=OTA Emergency Transfer Switch ⁽¹⁰⁾	Number of Drivers 1=1 Driver		
Trim Type G=Grid/Lay-in (Standard) ⁽¹⁾ G=Concealed I G=Slot Grid	Shielding F1=A12 .125 HP (Standard) A=A12 .095 A125=A12 .125 A19/156=#19 Pattern Acrylic (.156" Thick)	CCT L830=3000K L835=3500K L840=4000K L850=5000K Flex Multiple Configurations Available			
Series ⁽⁹⁾ R=General Purpose Troffer	Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flush White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum				

NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾ Products also available in non-US voltages and frequencies for international markets.⁽³⁾ Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾ With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. ⁽⁵⁾ Nominal lumen output. ⁽⁶⁾ Gasketing only available with aluminum door frame. ⁽⁷⁾ Gasketing minimum .125. ⁽⁸⁾ Step-Dim (Bi-Level) and Fifth Light (DALI) only available for 3,200 lumens and above. ⁽⁹⁾ DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.⁽¹⁰⁾ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.	Pallet
22GR-LD4-32	10 lbs.	48
22GR-LD4-43	10 lbs.	48

Submitted by Lighting Solutions		Catalog Number:	Type:
	Job Name:	22GRFA-LD4-40-A19/156-UNV-	B1
	JAMES T VAUGHN CORR CTR	L840-HCD1-U / EBPLED7W	
		Notes:	LTSRC16-37229

22GRLED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22GR-LD4-20-F1-UNV-L8XX-CD1-U	2084	20.10	103.68
Stock	22GR-LD4-24-F1-UNV-L8XX-CD1-U	2432	23.78	102.27
MTO	22GR-LD4-28-F1-UNV-L8XX-CD1-U	2804	28.13	99.68
Stock	22GR-LD4-32-F1-UNV-L8XX-CD1-U	3212	33.15	96.89
MTO	22GR-LD4-36-F1-UNV-L8XX-CD1-U	3598	38.86	92.59
MTO	22GR-LD4-40-F1-UNV-L8XX-CD1-U	4016	45.31	88.63
Stock	22GR-LD4-43-F1-UNV-L8XX-CD1-U	4310	50.43	85.47

*Stocked in both 3500K and 4000K. Made to order (MTO) requires a typical four week lead time.

Sure-Lites

DESCRIPTION

When AC power fails, the Sure-Lites Emergency Battery Pack LED (EBP) automatically switches to emergency mode. The EBP maintains illumination of an LED fixture for a minimum of 90 minutes. The product line is UL924 classified for field retrofit installation and has guaranteed compatibility with Eaton LED fixtures with accessible LED drivers. The constant power feature ensures consistent light output of the fixture for 90 minutes minimum. The EZ Key and laser test features simplify maintenance and installation. These products are not for use with sealed and gasketed fixtures.

SPECIFICATION FEATURES**ELECTRONIC**

- Universal voltage input 120 through 277 VAC, 50/60Hz
- Constant power output of 7 Watts or 14 Watts depending on model
- Automatically senses voltage required within these ranges: EBPLED7W from 8 V to 55 V EBPLED7W-3H from 16 V to 55 V EBPLED14W from 16 V to 55 V
- Low-voltage disconnect to protect battery life
- Test Button/Indicator Light/laser test/external battery disconnect
- 0°C to 55°C operation

CONSTRUCTION

- Steel housing
- EBPLED7W = 10.06 inches
- EBPLED14W = 14.56 inches
- Plenum rated test button cable
- Lead wires and 24" flexible metallic conduit provided

BATTERY

- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full Recharge Time, 24 hours (max.)

- 90 minute run time EBPLED7W/ EBPLED14W
- 180 minute run time EBPLED7W-3H

WARRANTY

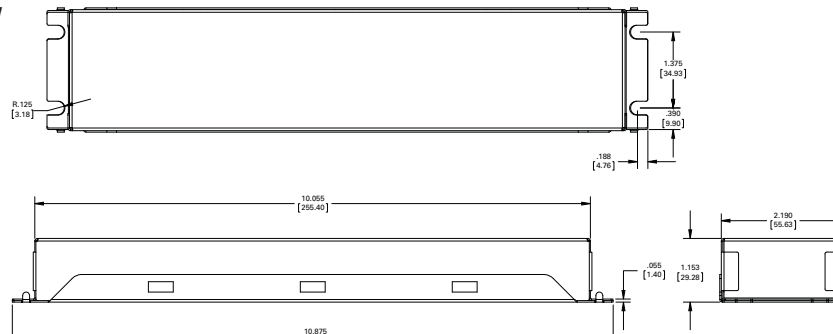
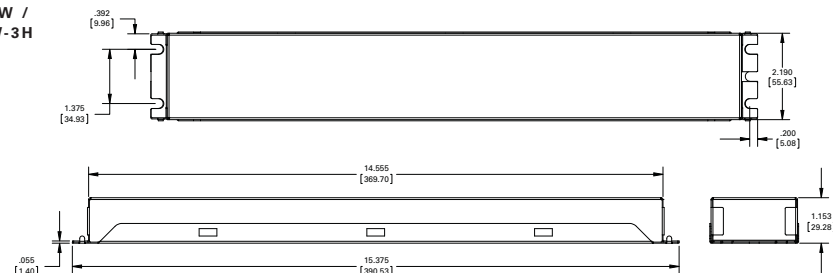
- Five-year warranty

CODE COMPLIANCE

- UL 924 Classified
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

HOW TO SPECIFY

Sure-Lites LED field installable emergency battery back with automatic voltage sensing, constant wattage output, external battery disconnect, laser test capability and nickel cadmium battery.

DIMENSIONS**EBPLED7W****EBPLED14W / EBPLED7W-3H****ORDERING INFORMATION**

SAMPLE NUMBER: EBPLED7W

Series	Output	Run time
EBPLED= LED Emergency Battery Pack	7W=7 Watt	=90 minute -3H=180 minute
	14W=14 Watt	=90 minute

**EBPLED7W****EBPLED14W****EBPLED7W-3H**

EBPLED Emergency Battery Packs

LED

Sure-Lites

EBPLED Series

TECHNICAL DATA

Universal Voltage Charger

Unit is supplied with a constant current, switch mode charging circuit which automatically detects the voltage level of the AC input (120V through 277V) and adjusts accordingly. This simplifies and mistake proof's the wiring.

Automatic Switching

The switching circuitry is designed to detect an absence of AC power and automatically switch into emergency operation. Upon restoration of AC power the lamps will automatically switch back to operating from the AC ballast.

Automatic detection of LED load forward voltage

Unit detects the LED forward voltage required (from 8V to 55V for 7W unit, 16V to 55V for 14W unit) and adjusts output current to provide constant wattage to the fixture, ensuring compatibility with a wide range of LED fixtures.

Constant Wattage Output

Unit provides constant power which ensures a consistent illumination while in emergency mode. Fixture lumen output is easily calculated by multiplying the unit wattage by the fixture efficacy (ie lumens/watt) from DLC data.

www.designlights.org

Example:

EBPLED = 14W

DLC EFF = 100 lumens/watt

EM Lumens = 14W x 100 lumens/watt

= 1400 lumens

Test Button/Indicator Light

Simulates interruption of AC power and illuminates LED fixture. LED charge indicator light indicates battery charger operation.

Laser Test

Enables remote testing by utilizing a laser pointer to simulate AC power loss and engagement of emergency operation. Can be mechanically activated by pushing the button or by optically activating with a laser tester.

EZ Key External Battery Disconnect

Prevents the battery from cycling during the construction phase and ensures a full battery charge for C.O. inspection.

Battery

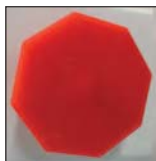
High temperature nickel cadmium battery pack is standard.

Warranty

All Sure-Lites EBP products are backed by a firm five-year warranty against defects in material and workmanship.

FEMA Requirement

EBP7W-3H provides a 3 hour run time to meet and exceed the FEMA tornado safe room requirement of two hours of operation.



EZ key



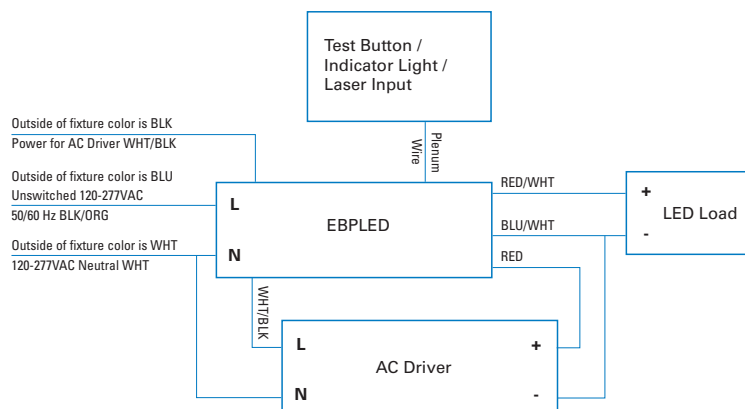
Test button



Laser tester

Part Number = LASER
(sold separately)

WIRING DIAGRAM



Metalux

DESCRIPTION

GRLED is a recessed lensed troffer series which offers a high quality luminaire dedicated with the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GRLED is compatible with all of today's popular ceiling systems and is available with a number of shielding options and accessories for application versatility.

The GRLED series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Gridlock feature for safety and convenience.

Controls

The GRLED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with typical CRI 85. Projected life

is 60,000 hours at 90% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming driver is standard.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and driver cover finished with new 90% reflective white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Optical Shielding

Die formed, flat steel door with frost #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability. Primary stocking skus come standard with robust - .125 lens.

Compliance

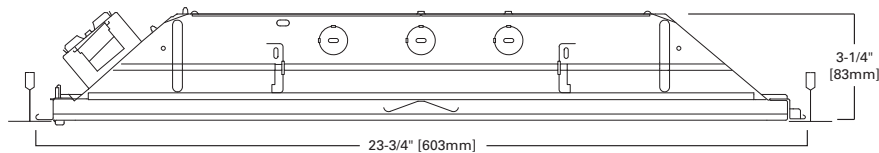
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.



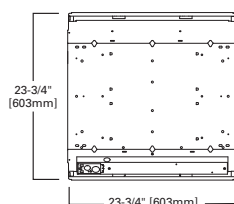
22GR LED

2' X 2' LED TROFFER

General Recessed LED
Troffer
For Use in Insulated
Ceilings



MOUNTING DATA



DOOR FRAMES



CEILING COMPATIBILITY

G	G	G	Ceiling Type	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Exposed Grid	G
			Concealed T	G
			Slot Grid	G
(Verify compatibility/ consult factory.)				

Submitted by Lighting Solutions		Catalog Number: 22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / SK-22-WS	Type: C
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Notes:	LTSRC16-37229

22GRLED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22GR-LD4-20-F1-UNV-L8XX-CD1-U	2084	20.10	103.68
Stock	22GR-LD4-24-F1-UNV-L8XX-CD1-U	2432	23.78	102.27
MTO	22GR-LD4-28-F1-UNV-L8XX-CD1-U	2804	28.13	99.68
Stock	22GR-LD4-32-F1-UNV-L8XX-CD1-U	3212	33.15	96.89
MTO	22GR-LD4-36-F1-UNV-L8XX-CD1-U	3598	38.86	92.59
MTO	22GR-LD4-40-F1-UNV-L8XX-CD1-U	4016	45.31	88.63
Stock	22GR-LD4-43-F1-UNV-L8XX-CD1-U	4310	50.43	85.47

*Stocked in both 3500K and 4000K. Made to order (MTO) requires a typical four week lead time.

Submitted by Lighting Solutions		Catalog Number: 22GRFA-LD4-40-A19/156-UNV- L840-HCD1-U / SK-22-WS	Type: C
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Notes:	LTSRC16-37229

Metalux

DESCRIPTION

The Metalux® universal field install surface mount kits allow for numerous recessed fixture families from Eaton's Cooper Lighting business to be installed in plenum-less spaces. Ideal for retrofits, remodel projects, or where a recessed fixture is preferred but plenum space is not available. The surface mount kit works with 2' x 2', 2' x 4', 1' x 4' and 1' x 2' Metalux, Fail-Safe, Corelite and Neo-ray product lines. See chart and ordering information for specific availability.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

The field install universal surface mount kits feature snap-together frame design constructed of die-formed 20 gauge cold rolled steel. Both 2' x 2' and 2' x 4' kits are offered in two depths, a Shallow (4-15/16") and Tall (5-1/16") to accommodate an array of fixture types and options. The 1' x 4' and 1' x 2' are only offered in a Tall (5-1/16") version. Composite end caps provide simple snap on attachment to housing for convenience. For additional safety #10 screws can be used if necessary at pre-tap locations. Four access plate knockouts provide flexible

installation and supply connection. A set of four mounting points are provided for surface mounting, for pendant mount six mounting points are provided for either two or four point suspension. Eaton SCA (1/2" O.D.) suspension sets (#SCA-48-B) are recommended for stem mounting.

Finish

Durable cold rolled steel housing is finished in high reflectance white using electrostatically applied polyester powder coat paint to ensure maximum rust inhibition. End caps provide matching matte white finish.

Compliance

Field install universal surface mount kits are UL recognized accessories.

Mounting

Both versions are designed to provide a means for surface or pendant mounting.

Warranty

One year warranty.



SK-12
SK-14
SK-22
SK-24

2' X 2', 2' X 4', 1' X 4' AND
1' X 2' SURFACE MOUNT KITS

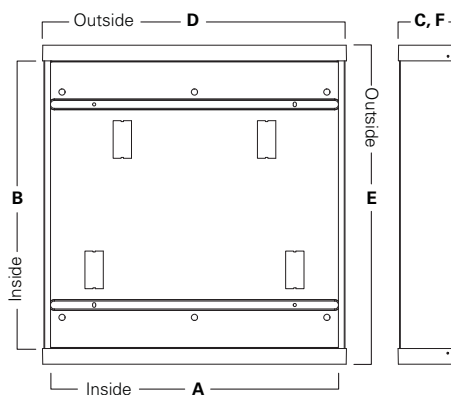
Field Install Version

Inside

		SK-24-WS	SK-24-WT	SK-22-WS	SK-22-WT
A	Width	24"	24"	24"	24"
B	Length	48-1/16"	48-1/16"	24-1/16"	24-1/16"
C	Height	4-15/16"	6-3/8"	4-15/16"	6-3/8"

Outside

		SK-24-WS	SK-24-WT	SK-22-WS	SK-22-WT
D	Width	24-1/4"	24-1/4"	24-1/4"	24-1/4"
E	Length	49-1/2"	49-1/2"	25-1/2"	25-1/2"
F	Height	5-1/16"	6-5/8"	5-1/16"	6-5/8"

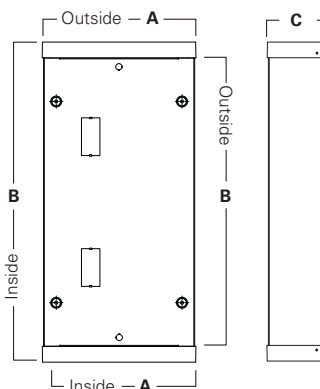


Inside

		SK-14-WT	SK-12-WT
A	Width	12"	12"
B	Length	48-1/16"	24-1/16"
C	Height	6-1/4"	6-1/4"

Outside

		SK-14-WT	SK-12-WT
A	Width	12-3/16"	12-3/16"
B	Length	49-7/16"	25-7/16"
C	Height	6-9/16"	6-9/16"

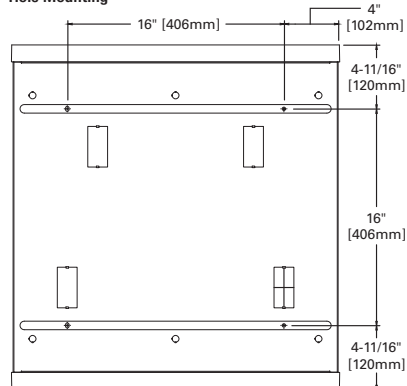
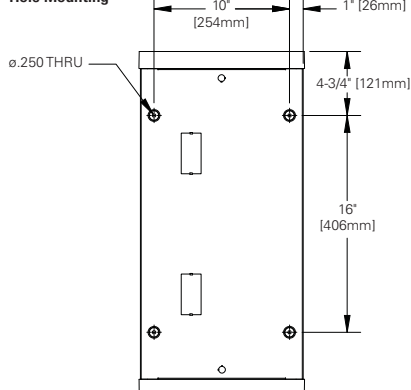
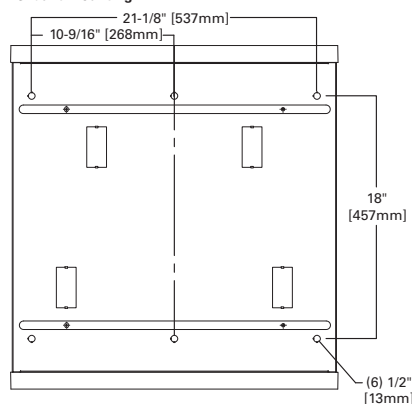
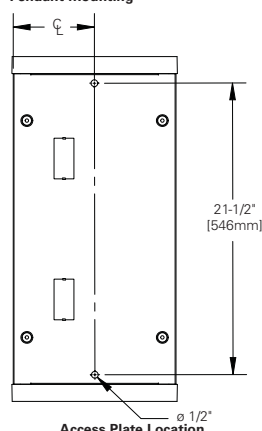
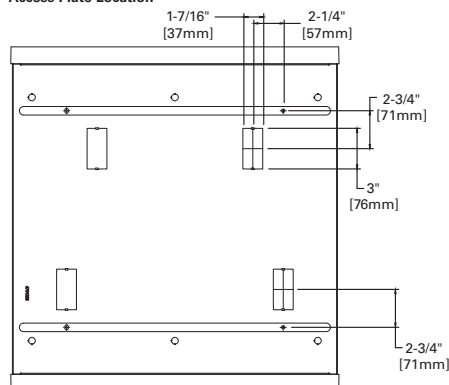
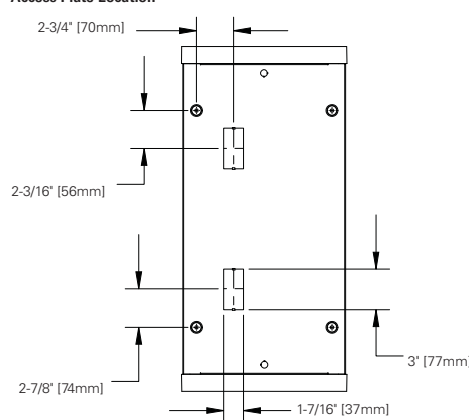


CERTIFICATION DATA

cULus
Damp Location Listed

SHIPPING DATA

Catalog No.	Wt.
SK-22-WS	12 lbs.
SK-24-WS	21 lbs.
SK-22-WT	14 lbs.
SK-24-WT	24 lbs.
SK-14-WT	13 lbs.
SK-12-WT	7 lbs.

2' X 2', 2' X 4', 1' X 4' AND 1' X 2' SURFACE MOUNT KITS**MOUNTING DATA****Hole Mounting****Hole Mounting****Pendant Mounting****Pendant Mounting****Access Plate Location****Access Plate Location****ORDERING INFORMATION**

Stock or MTO	Size	Catalog Number	Description
Stock	2' x 4'	SK-24-WS	2' x 4' Surface Mount Kit, Shallow
Stock	2' x 4'	SK-24-WT	2' x 4' Surface Mount Kit, Tall
Stock	2' x 2'	SK-22-WS	2' x 2' Surface Mount Kit, Shallow
Stock	2' x 2'	SK-22-WT	2' x 2' Surface Mount Kit, Tall
Stock	1' x 4'	SK-14-WT*	1' x 4' Surface Mount Kit, Tall
Stock	1' x 2'	SK-12-WT	1' x 2' Surface Mount Kit, Tall

NOTES: The weight of the installed luminaire (ONLY) not to exceed 40 lbs.

Flex cables sold separately.

Review Compatibility Matrix before placing order for recessed luminaire.

*SkyRidge 1' x 4' fixture with curved reflector ("C-C") does not fit the 1' x 4' kit without requirement for special bracket, please submit PDR request for order processing.

Submitted by Lighting Solutions		Catalog Number: 22GRFA-LD4-40-A19/156-UNV- L840-HCD1-U / SK-22-WS	Type: C
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR		
		Notes:	LTSRC16-37229

2' X 2', 2' X 4', 1' X 4' AND 1' X 2' SURFACE MOUNT KITS

COMPATIBILITY MATRIX

	Shallow Design		Tall Design			
	2' x 2'	2' x 4'	2' x 2'	2' x 4'	1' x 4'	1' x 2'
	SK-22-WS	SK-24-WS	SK-22-WT	SK-24-WT	SK-14-WT	SK-12-WT
Standard Version						
Metalux						
Accord	T5, T8, LED	T5, T8, LED			T5, T8, LED	
ArcLine	T5, T8, LED	T5, T8, LED			T5, T8, LED	
Cruze	LED	LED			LED	
Encounter	LED	LED			LED	LED
GR	T5, T8, LED	T5, T8, LED			T5, T8, LED	
GC			T5, T8	T5, T8	T5, T8	
Ovation			T5, T8	T5, T8	T5, T8	
Parabolics*			T5, T8	T5, T8		
SkyRidge**			LED	LED	LED	LED
Fail-Safe						
CFDFA			T5, T8	T5, T8	T5, T8	
CFE-3			T5, T8	T5, T8		
2VRGC			T5, T8	T5, T8	T5, T8	
MAE			T5, T8	T5, T8		
MAO			T5, T8	T5, T8		
Corelite						
Class E3	T5, T8, LED	T5, T8, LED				
Class R1/Z1	T5	T5			T5	
Class R2/Z2	T5	T5			T5	
Class R2X	LED	LED			LED	
Class R3/Z3	T5, LED	T5, LED			T5, LED	
Divide	LED	LED			LED	
Neo-ray						
Fenestra			202, 232, 242, 272, LED	204, 234, 244, 274, LED		
Luminous	T5, LED	T5, LED	T8	T8	T5, T8, LED	
Symbio			292	294		
Emergency Version						
Metalux						
Accord	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
ArcLine	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
Cruze	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
Encounter	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	EL7W
GR	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
GC			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	
Ovation			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	
Parabolics*			EL7W, EL14W	EL7W, EL14W		
SkyRidge**			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	EL7W
Corelite						
Class E3	EL7W, EL14W	EL7W, EL14W				
Class R1/Z1	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R2/Z2	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R2X	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R3/Z3	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Divide	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Neo-ray						
Fenestra			EL7W, EL14W	EL7W, EL14W		
Luminous	EL7W, EL14W	EL7W, EL14W				
Symbio			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	

*Covers 2P2G, 2EP3, 2HP2, 2HP3, OpticaHP; 2PGAX does not fit kits

**SkyRidge 1' x 4' fixture with curved reflector ("C-C") does not fit the 1' x 4' kit without requirement for special bracket, please submit PDR request for order processing.

Note: Fail-Safe fixtures with emergency do not fit either kit size.

Metalux

DESCRIPTION

GRLED is a recessed lensed troffer series which offers a high quality luminaire dedicated with the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GRLED is compatible with all of today's popular ceiling systems and is available with a number of shielding options and accessories for application versatility.

The GRLED series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Gridlock feature for safety and convenience.

Controls

The GRLED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with typical CRI 85. Projected life

is 60,000 hours at 90% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming driver is standard.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and driver cover finished with new 90% reflective white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Optical Shielding

Die formed, flat steel door with frost #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability. Primary stocking skus come standard with robust - .125 lens.

Compliance

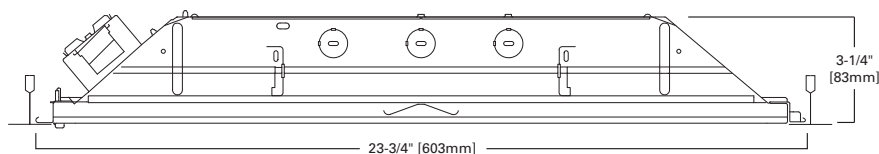
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.



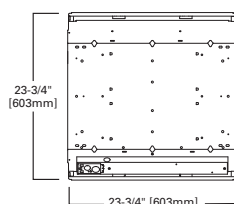
22GR LED

2' X 2' LED TROFFER

General Recessed LED Troffer
For Use in Insulated Ceilings



MOUNTING DATA



DOOR FRAMES



CEILING COMPATIBILITY

G	G	G	Ceiling Type	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Exposed Grid	G
			Concealed T	G
			Slot Grid	G
(Verify compatibility/ consult factory.)				

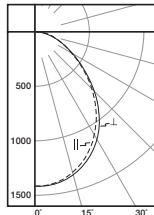
WATTAGE

Lumens Package	Wattage
2000	20W
2400	23W
2800	28W
3200	33W
3600	38W
4000	45W
4300	50W

LINEAR DISCONNECT

Safe and convenient means of disconnecting power



22GRLED**PHOTOMETRICS**
22GR-LD4-32-F1-UNV-L835-CD1-U
 Dimming Driver

Linear LED 3500K

 Spacing criterion:
 (II) 1.1 x mounting
 height, (L) 1.2 x
 mounting height

Lumens: 3212

Input Watts: 33.2W

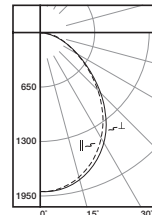
Efficacy: 96.7 lm/W

Test Report:

22GR-LD4-32-F1-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	1411	1411	1411
5	1404	1401	1410
10	1377	1377	1389
15	1328	1334	1350
20	1264	1273	1295
25	1180	1196	1223
30	1080	1101	1131
35	973	992	1020
40	853	867	893
45	730	739	757
50	604	611	624
55	486	489	503
60	378	379	390
65	295	286	293
70	226	211	218
75	170	155	155
80	119	106	103
85	65	55	54
90	0	0	0


22GR-LD4-43-F1-UNV-L835-CD1-U
 Dimming Driver

Linear LED 3500K

 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.2 x
 mounting height

Lumens: 4310

Input Watts: 50.5W

Efficacy: 85.3 lm/W

Test Report:

22GR-LD4-43-F1-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across L
0	1892	1892	1892
5	1884	1879	1892
10	1845	1846	1863
15	1782	1788	1814
20	1693	1708	1739
25	1582	1604	1639
30	1452	1477	1516
35	1306	1327	1368
40	1142	1161	1199
45	976	991	1020
50	808	821	842
55	651	653	672
60	509	511	523
65	392	384	393
70	302	285	290
75	230	208	209
80	160	141	140
85	88	75	71
90	0	0	0

Coefficients of Utilization

		Effective floor cavity reflectance										20%										
rc	rw	80%				70%				50%				30%				10%				0%
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
RCR																						
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1		110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2		100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3		92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62			
4		85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54			
5		78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48			
6		73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42			
7		68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38			
8		63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34			
9		59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31			
10		56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28			

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1061	33.0
0-40	1680	52.3
0-60	2691	83.8
0-90	3212	100.0
0-180	3212	100.0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance								20%												0%
	80%				70%				50%				30%				10%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28			

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1423	33.0
0-40	2254	52.3
0-60	3611	83.8
0-90	4310	100.0
0-180	4310	100.0

ORDERING INFORMATION

SAMPLE NUMBER: 22GR-LD4-27-F1-UNV-L835-CD1-U

Rating Blank=Standard ATW-SW4=Chicago Rated	LED Type UNV=LED 4.0	Voltage ⁽²⁾ UNV=Universal Voltage 120-277 ⁽³⁾	Driver Type CD=0-10V Dimming Driver (10% - 100% Dimming) HCD=0-10V Dimming Driver (1% - 100% Dimming) SD=Step-Dim Driver ⁽⁶⁾ 5LTD=5th Light DALI Driver (10% - 100% Dimming) ⁽⁶⁾	Options PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims ^{(6), (7)}	Packaging U=Unit Pack PALC=Palletized Fixtures In Carton
Width / Length 22=2' x 2'	LED Lumens Output ⁽⁵⁾ Stock 24=2400 32=3200 43=4300 MTO 20=2000 28=2800 36=3600 40=4000	Options GL=Single Element Fuse GM=Double Element Fuse Emergency EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁴⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁴⁾ GTD2=Bodine Generator Transfer Device ⁽¹⁰⁾ ETS2=OTA Emergency Transfer Switch ⁽¹⁰⁾	Number of Drivers 1=1 Driver		
Trim Type G=Grid/Lay-in (Standard) ⁽¹⁾ G=Concealed I G=Slot Grid	Shielding F1=A12 .125 HP (Standard) A=A12 .095 A125=A12 .125 A19/156=#19 Pattern Acrylic (.156" Thick)	CCT L830=3000K L835=3500K L840=4000K L850=5000K Flex Multiple Configurations Available			
Series ⁽⁹⁾ R=General Purpose Troffer	Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flush White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum	ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips ⁽¹⁾ DF-22-W=2' x 2' Drywall Frame Kit			

NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾ Products also available in non-US voltages and frequencies for international markets.⁽³⁾ Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾ With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. ⁽⁵⁾ Nominal lumen output. ⁽⁶⁾ Gasketing only available with aluminum door frame. ⁽⁷⁾ Gasketing minimum .125. ⁽⁸⁾ Step-Dim (Bi-Level) and Fifth Light (DALI) only available for 3,200 lumens and above. ⁽⁹⁾ DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.⁽¹⁰⁾ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

Submitted by Lighting Solutions		Catalog Number: 22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / EBPLED7W / SK-22-WS	Type: C1
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Notes:	LTSRC16-37229

22GRLED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22GR-LD4-20-F1-UNV-L8XX-CD1-U	2084	20.10	103.68
Stock	22GR-LD4-24-F1-UNV-L8XX-CD1-U	2432	23.78	102.27
MTO	22GR-LD4-28-F1-UNV-L8XX-CD1-U	2804	28.13	99.68
Stock	22GR-LD4-32-F1-UNV-L8XX-CD1-U	3212	33.15	96.89
MTO	22GR-LD4-36-F1-UNV-L8XX-CD1-U	3598	38.86	92.59
MTO	22GR-LD4-40-F1-UNV-L8XX-CD1-U	4016	45.31	88.63
Stock	22GR-LD4-43-F1-UNV-L8XX-CD1-U	4310	50.43	85.47

*Stocked in both 3500K and 4000K. Made to order (MTO) requires a typical four week lead time.

Sure-Lites

DESCRIPTION

When AC power fails, the Sure-Lites Emergency Battery Pack LED (EBP) automatically switches to emergency mode. The EBP maintains illumination of an LED fixture for a minimum of 90 minutes. The product line is UL924 classified for field retrofit installation and has guaranteed compatibility with Eaton LED fixtures with accessible LED drivers. The constant power feature ensures consistent light output of the fixture for 90 minutes minimum. The EZ Key and laser test features simplify maintenance and installation. These products are not for use with sealed and gasketed fixtures.

SPECIFICATION FEATURES**ELECTRONIC**

- Universal voltage input 120 through 277 VAC, 50/60Hz
- Constant power output of 7 Watts or 14 Watts depending on model
- Automatically senses voltage required within these ranges: EBPLED7W from 8 V to 55 V EBPLED7W-3H from 16 V to 55 V EBPLED14W from 16 V to 55 V
- Low-voltage disconnect to protect battery life
- Test Button/Indicator Light/laser test/external battery disconnect
- 0°C to 55°C operation

CONSTRUCTION

- Steel housing
- EBPLED7W = 10.06 inches
- EBPLED14W = 14.56 inches
- Plenum rated test button cable
- Lead wires and 24" flexible metallic conduit provided

BATTERY

- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full Recharge Time, 24 hours (max.)

- 90 minute run time EBPLED7W/ EBPLED14W
- 180 minute run time EBPLED7W-3H

WARRANTY

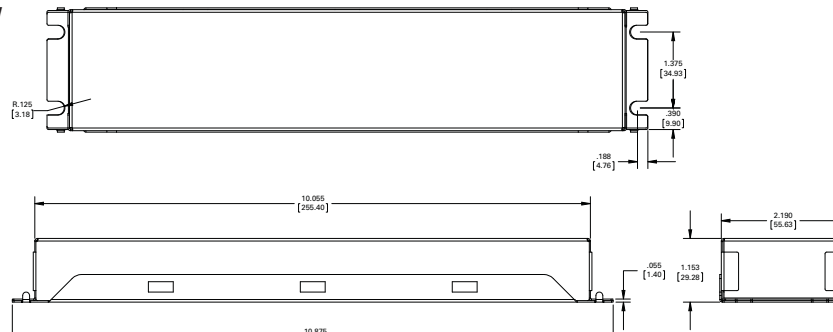
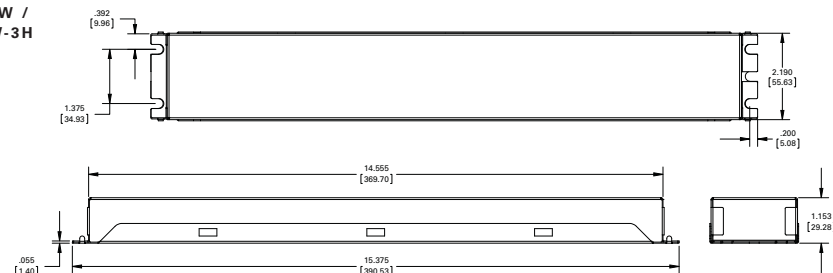
- Five-year warranty

CODE COMPLIANCE

- UL 924 Classified
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

HOW TO SPECIFY

Sure-Lites LED field installable emergency battery back with automatic voltage sensing, constant wattage output, external battery disconnect, laser test capability and nickel cadmium battery.

DIMENSIONS**EBPLED7W****EBPLED14W / EBPLED7W-3H****ORDERING INFORMATION**

SAMPLE NUMBER: EBPLED7W

Series	Output	Run time
EBPLED= LED Emergency Battery Pack	7W=7 Watt	=90 minute -3H=180 minute
	14W=14 Watt	=90 minute

**EBPLED7W****EBPLED14W****EBPLED7W-3H**

EBPLED Emergency Battery Packs

LED

Sure-Lites

EBPLED Series

TECHNICAL DATA

Universal Voltage Charger

Unit is supplied with a constant current, switch mode charging circuit which automatically detects the voltage level of the AC input (120V through 277V) and adjusts accordingly. This simplifies and mistake proof's the wiring.

Automatic Switching

The switching circuitry is designed to detect an absence of AC power and automatically switch into emergency operation. Upon restoration of AC power the lamps will automatically switch back to operating from the AC ballast.

Automatic detection of LED load forward voltage

Unit detects the LED forward voltage required (from 8V to 55V for 7W unit, 16V to 55V for 14W unit) and adjusts output current to provide constant wattage to the fixture, ensuring compatibility with a wide range of LED fixtures.

Constant Wattage Output

Unit provides constant power which ensures a consistent illumination while in emergency mode. Fixture lumen output is easily calculated by multiplying the unit wattage by the fixture efficacy (ie lumens/watt) from DLC data.

www.designlights.org

Example:

EBPLED = 14W

DLC EFF = 100 lumens/watt

EM Lumens = 14W x 100 lumens/watt
= 1400 lumens

Test Button/Indicator Light

Simulates interruption of AC power and illuminates LED fixture. LED charge indicator light indicates battery charger operation.

Laser Test

Enables remote testing by utilizing a laser pointer to simulate AC power loss and engagement of emergency operation. Can be mechanically activated by pushing the button or by optically activating with a laser tester.

EZ Key External Battery Disconnect

Prevents the battery from cycling during the construction phase and ensures a full battery charge for C.O. inspection.

Battery

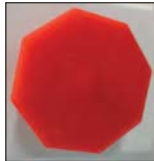
High temperature nickel cadmium battery pack is standard.

Warranty

All Sure-Lites EBP products are backed by a firm five-year warranty against defects in material and workmanship.

FEMA Requirement

EBP7W-3H provides a 3 hour run time to meet and exceed the FEMA tornado safe room requirement of two hours of operation.



EZ key



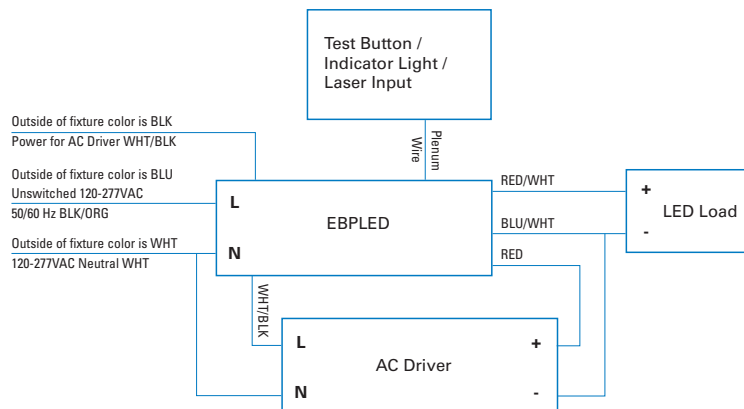
Test button



Laser tester

Part Number = LASER
(sold separately)

WIRING DIAGRAM



Metalux

DESCRIPTION

The Metalux® universal field install surface mount kits allow for numerous recessed fixture families from Eaton's Cooper Lighting business to be installed in plenum-less spaces. Ideal for retrofits, remodel projects, or where a recessed fixture is preferred but plenum space is not available. The surface mount kit works with 2' x 2', 2' x 4', 1' x 4' and 1' x 2' Metalux, Fail-Safe, Corelite and Neo-ray product lines. See chart and ordering information for specific availability.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

The field install universal surface mount kits feature snap-together frame design constructed of die-formed 20 gauge cold rolled steel. Both 2' x 2' and 2' x 4' kits are offered in two depths, a Shallow (4-15/16") and Tall (5-1/16") to accommodate an array of fixture types and options. The 1' x 4' and 1' x 2' are only offered in a Tall (5-1/16") version. Composite end caps provide simple snap on attachment to housing for convenience. For additional safety #10 screws can be used if necessary at pre-tap locations. Four access plate knockouts provide flexible

installation and supply connection. A set of four mounting points are provided for surface mounting, for pendant mount six mounting points are provided for either two or four point suspension. Eaton SCA (1/2" O.D.) suspension sets (#SCA-48-B) are recommended for stem mounting.

Finish

Durable cold rolled steel housing is finished in high reflectance white using electrostatically applied polyester powder coat paint to ensure maximum rust inhibition. End caps provide matching matte white finish.

Compliance

Field install universal surface mount kits are UL recognized accessories.

Mounting

Both versions are designed to provide a means for surface or pendant mounting.

Warranty

One year warranty.



SK-12
SK-14
SK-22
SK-24

2' X 2', 2' X 4', 1' X 4' AND
1' X 2' SURFACE MOUNT KITS

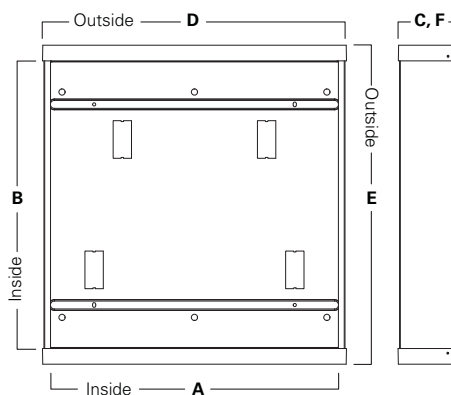
Field Install Version

Inside

		SK-24-WS	SK-24-WT	SK-22-WS	SK-22-WT
A	Width	24"	24"	24"	24"
B	Length	48-1/16"	48-1/16"	24-1/16"	24-1/16"
C	Height	4-15/16"	6-3/8"	4-15/16"	6-3/8"

Outside

		SK-24-WS	SK-24-WT	SK-22-WS	SK-22-WT
D	Width	24-1/4"	24-1/4"	24-1/4"	24-1/4"
E	Length	49-1/2"	49-1/2"	25-1/2"	25-1/2"
F	Height	5-1/16"	6-5/8"	5-1/16"	6-5/8"

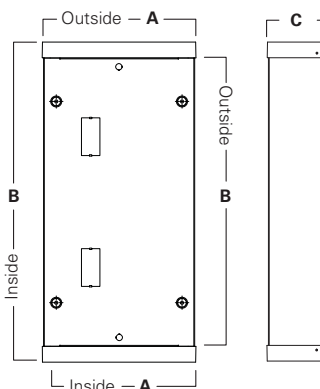


Inside

		SK-14-WT	SK-12-WT
A	Width	12"	12"
B	Length	48-1/16"	24-1/16"
C	Height	6-1/4"	6-1/4"

Outside

		SK-14-WT	SK-12-WT
A	Width	12-3/16"	12-3/16"
B	Length	49-7/16"	25-7/16"
C	Height	6-9/16"	6-9/16"

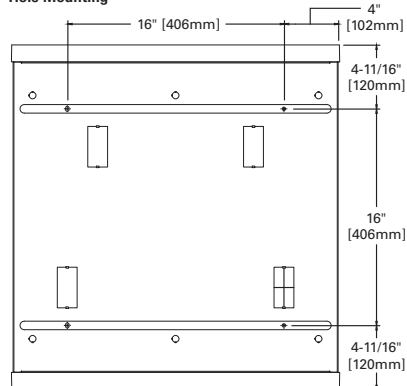
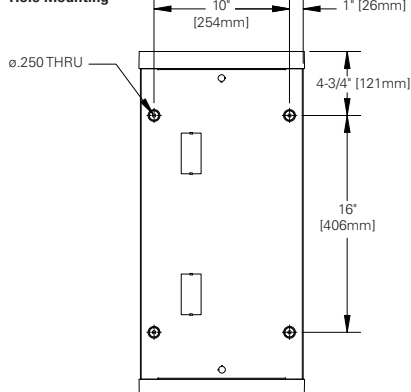
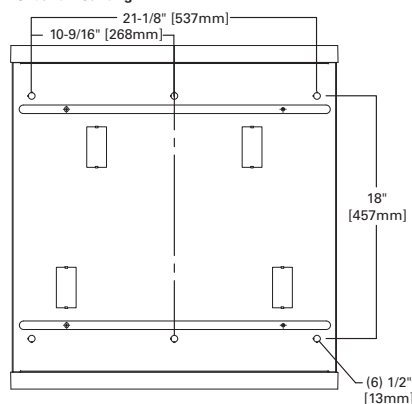
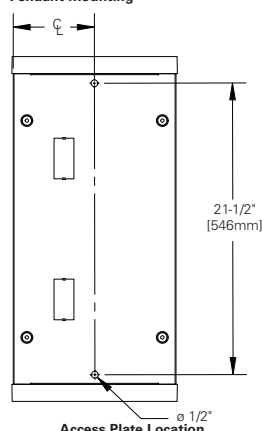
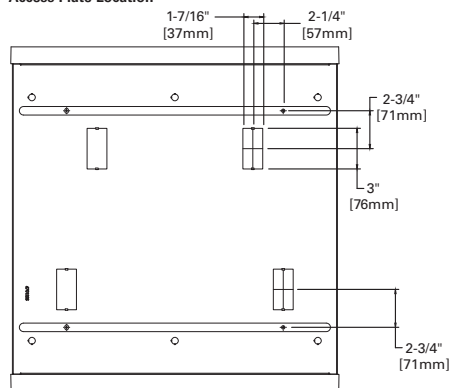
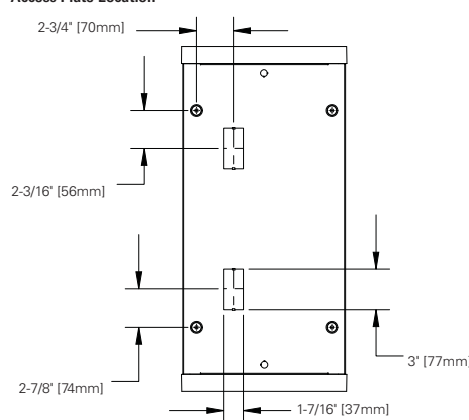


CERTIFICATION DATA

cULus
Damp Location Listed

SHIPPING DATA

Catalog No.	Wt.
SK-22-WS	12 lbs.
SK-24-WS	21 lbs.
SK-22-WT	14 lbs.
SK-24-WT	24 lbs.
SK-14-WT	13 lbs.
SK-12-WT	7 lbs.

2' X 2', 2' X 4', 1' X 4' AND 1' X 2' SURFACE MOUNT KITS**MOUNTING DATA****Hole Mounting****Hole Mounting****Pendant Mounting****Pendant Mounting****Access Plate Location****Access Plate Location****ORDERING INFORMATION**


Stock or MTO	Size	Catalog Number	Description
Stock	2' x 4'	SK-24-WS	2' x 4' Surface Mount Kit, Shallow
Stock	2' x 4'	SK-24-WT	2' x 4' Surface Mount Kit, Tall
Stock	2' x 2'	SK-22-WS	2' x 2' Surface Mount Kit, Shallow
Stock	2' x 2'	SK-22-WT	2' x 2' Surface Mount Kit, Tall
Stock	1' x 4'	SK-14-WT*	1' x 4' Surface Mount Kit, Tall
Stock	1' x 2'	SK-12-WT	1' x 2' Surface Mount Kit, Tall

NOTES: The weight of the installed luminaire (ONLY) not to exceed 40 lbs.

Flex cables sold separately.

Review Compatibility Matrix before placing order for recessed luminaire.

*SkyRidge 1' x 4' fixture with curved reflector ("C-") does not fit the 1' x 4' kit without requirement for special bracket, please submit PDR request for order processing.

Submitted by Lighting Solutions  lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Catalog Number: 22GRFA-LD4-40-A19/156-UNV-L840-HCD1-U / EBPLED7W / SK-22-WS Notes:	Type: <div>C1</div> LTSRC16-37229
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2' X 2', 2' X 4', 1' X 4' AND 1' X 2' SURFACE MOUNT KITS

COMPATIBILITY MATRIX

	Shallow Design		Tall Design			
	2' x 2'	2' x 4'	2' x 2'	2' x 4'	1' x 4'	1' x 2'
	SK-22-WS	SK-24-WS	SK-22-WT	SK-24-WT	SK-14-WT	SK-12-WT
Standard Version						
Metalux						
Accord	T5, T8, LED	T5, T8, LED			T5, T8, LED	
ArcLine	T5, T8, LED	T5, T8, LED			T5, T8, LED	
Cruze	LED	LED			LED	
Encounter	LED	LED			LED	LED
GR	T5, T8, LED	T5, T8, LED			T5, T8, LED	
GC			T5, T8	T5, T8	T5, T8	
Ovation			T5, T8	T5, T8	T5, T8	
Parabolics*			T5, T8	T5, T8		
SkyRidge**			LED	LED	LED	LED
Fail-Safe						
CFDFA			T5, T8	T5, T8	T5, T8	
CFE-3			T5, T8	T5, T8		
2VRGC			T5, T8	T5, T8	T5, T8	
MAE			T5, T8	T5, T8		
MAO			T5, T8	T5, T8		
Corelite						
Class E3	T5, T8, LED	T5, T8, LED				
Class R1/Z1	T5	T5			T5	
Class R2/Z2	T5	T5			T5	
Class R2X	LED	LED			LED	
Class R3/Z3	T5, LED	T5, LED			T5, LED	
Divide	LED	LED			LED	
Neo-ray						
Fenestra			202, 232, 242, 272, LED	204, 234, 244, 274, LED		
Luminous	T5, LED	T5, LED	T8	T8	T5, T8, LED	
Symbio			292	294		
Emergency Version						
Metalux						
Accord	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
ArcLine	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
Cruze	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
Encounter	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	EL7W
GR	EL7W	EL7W	EL14W	EL14W	EL7W, EL14W	
GC			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	
Ovation			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	
Parabolics*			EL7W, EL14W	EL7W, EL14W		
SkyRidge**			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	EL7W
Corelite						
Class E3	EL7W, EL14W	EL7W, EL14W				
Class R1/Z1	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R2/Z2	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R2X	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Class R3/Z3	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Divide	EL7W, EL14W	EL7W, EL14W			EL7W, EL14W	
Neo-ray						
Fenestra			EL7W, EL14W	EL7W, EL14W		
Luminous	EL7W, EL14W	EL7W, EL14W				
Symbio			EL7W, EL14W	EL7W, EL14W	EL7W, EL14W	

*Covers 2P2G, 2EP3, 2HP2, 2HP3, OpticaHP; 2PGAX does not fit kits

**SkyRidge 1' x 4' fixture with curved reflector ("C-C") does not fit the 1' x 4' kit without requirement for special bracket, please submit PDR request for order processing.

Note: Fail-Safe fixtures with emergency do not fit either kit size.

Fail-Safe

DESCRIPTION

The Fail-Safe FMSLED combines maximum security construction features with energy saving technology. This surface mounted luminaire utilizes a one-piece housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. ETL listed for damp locations; optional wet location under covered ceiling. The FMSLED is ideal for confinement/ security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Fasteners

Stainless steel tamper-resistant T20 TORX® screws with center pin reject are standard. Allen-head screws with center pin reject optional.

Housing

Die-formed 12-18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless housing for maximum impact resistance and prevention of unauthorized fixture penetration.

Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

Hinge

Continuous, stainless steel piano hinge (1/4" diameter knuckle) with welded pin end to prevent removal.

Door

One-piece, CRS door frame with die-formed edges and tightly closed corners increases rigidity. Door gauge to match housing.

Light Mask

Black fixture gasket prevents light leaks.

Lens

Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side. See Lens Options.

LEDs

Available in 3000K, 3500K, 4000K and 5000K with CRI > 85. Projected life is 50,000 hours at 70% lumen maintenance.

Lens Retention

Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

Transformer/Driver

Electronic driver 120-277V. 0-10V dimming standard.

Labels

ETL listed for damp locations. Wet location under covered ceiling optional.

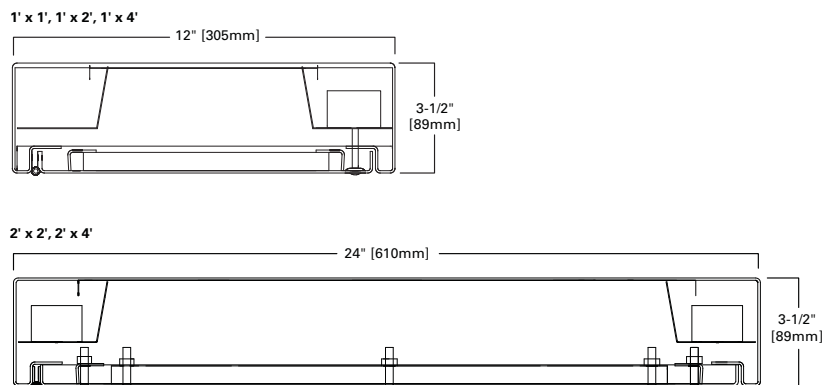


FMS LED

LD4 LED

1' Width
2' Width
Confinement/Correctional

Surface



TORX® is a registered trademark of Camcar Division of Textron Inc.

ORDERING INFORMATION

SAMPLE NUMBER: FMS-X24-4-LD4-4STD-40-UNV-80/86-EDC1 or FMS-S12-2-LD4-2HI-50-277-82/87-EDC1-EL10W

Product Family	Door	Width	Length	LED	No. of LED	Illumination Level	Color Temp.	Voltage	Inner / Outer Lens	Driver	No. of Circuits	Options	Accessories
FMS				LD4					/				
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>FMS</p> <p>S=12 ga.</p> <p>X=14 ga.</p> <p>D=16 ga.</p> <p>N=18 ga.</p> <p>24=24" Wide</p> <p>12=12" Wide</p> <p>1=1' Length (1' x 1' only)</p> <p>2=2' Length</p> <p>4=4' Length</p> <p>LD4=LED</p> <p>1=(1) LED Module</p> <p>2=(2) LED Modules</p> <p>3=(3) LED Modules (24" width only)</p> <p>4=(4) LED Modules (24" width only)</p> <p>STD=Standard</p> <p>LO=Low</p> <p>HI=High</p> <p>30=3000K</p> <p>35=3500K</p> <p>40=4000K</p> <p>50=5000K</p> </div> <div style="width: 30%;"> <p>UNV=120-277V</p> <p>120=120V</p> <p>277=277V</p> <p>Lens Type</p> <p>Inner Layer (optional)</p> <p>90=0.005 UV Absorbing Overlay</p> <p>Fixture Side</p> <p>80=0.125 Prismatic Acrylic</p> <p>81=0.156 Prismatic Polycarbonate</p> <p>82=0.187 Prismatic Polycarbonate</p> <p>93=0.156 Prismatic Tempered Glass</p> <p>Environmental Side</p> <p>84=0.125 Clear Polycarbonate</p> <p>85=0.187 Clear Polycarbonate</p> <p>86=0.250 Clear Polycarbonate</p> <p>87=0.375 Clear Polycarbonate</p> <p>88=0.500 Clear Polycarbonate</p> <p>94=0.187 Clear Tempered Glass</p> <p>96=0.250 Clear Tempered Glass</p> <p>97=0.375 Clear Tempered Glass</p> <p>Electronic Driver</p> <p>EDC =Electronic Driver, Non-dimming</p> <p>EDD =Electronic Driver, 0-10V Dimming, 10%</p> <p>ED1D =Electronic Driver, 0-10V Dimming, 1%</p> </div> <div style="width: 30%;"> <p>1=1 Circuit</p> <p>2=2 Circuits</p> <p>3=3 Circuits</p> <p>4=4 Circuits</p> <p>EL7W=Emergency Battery ²</p> <p>Pack, 7W Output</p> <p>EL10W=Emergency Battery ^{2,3}</p> <p>Pack, 10W Output</p> <p>EL14W=Emergency Battery ²</p> <p>Pack, 14W Output</p> <p>LLNL=Linear LED</p> <p>Night Light, Dimmable ^{4,5}</p> <p>GLR=Fuse and Holder</p> <p>WL=Wet Location Under Covered Ceiling</p> <p>Stainless Steel Fixture</p> <p>SSN=Natural Brushed Finish</p> <p>SSP=Polyester Powder Coat Finish</p> <p>Fasteners</p> <p>SF3=Allen-Head (center pin reject)</p> </div> <div style="width: 10%;"> <p>9306=Allen-Head Wrench</p> <p>VRSD=T20 Center Pin Tamperproof TORX® - head screwdriver</p> </div> </div>													

NOTES:

1 See Lens Guide for additional lens choices.

2 Not available 1' x 1' or 1' x 2'.

3 Not available in "HI" illumination level. EL10W available all configurations "STD" or "LO". Emergency available "HI" all configurations except 2' x 2' and 2' x 4', 4-module LED cross section.

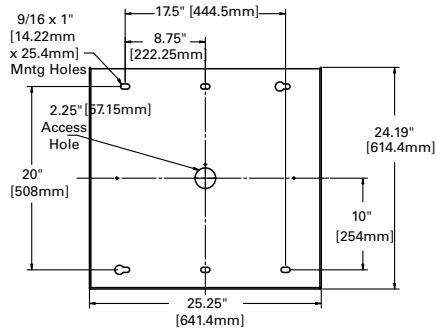
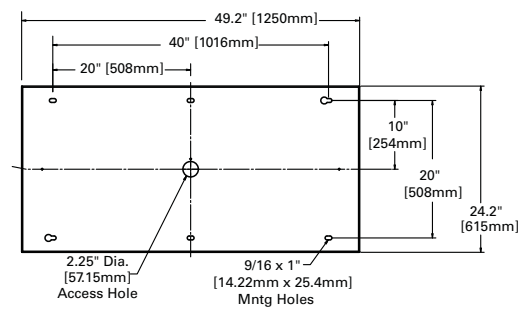
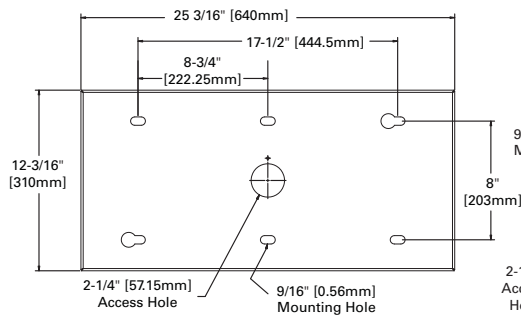
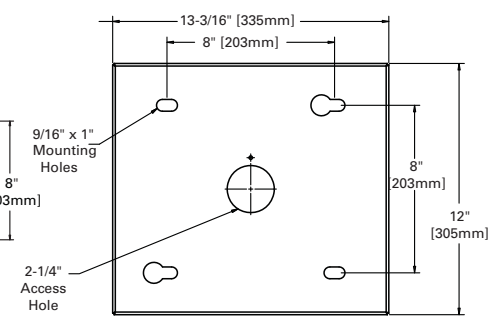
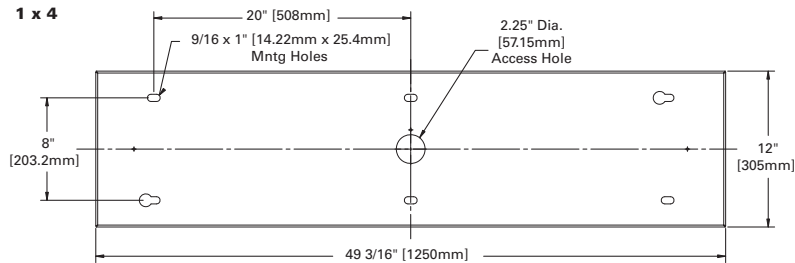
4 LLNL not available in 1' x 1', 2-module LED cross section or 1' x 2', 2-module LED cross section.

5 Nominal 600 delivered lumens.

NOMINAL INPUT WATTS/DELIVERED LUMENS (80/86 SHIELDING)

Fixture Size	# Modules	Level	(80/86 shielding)		Fixture Size	# Modules	Level	(80/86 shielding)	
			Nominal Input Watts	Nominal Delivered Lumens				Nominal Input Watts	Nominal Delivered Lumens
1' x 1'	1	STD	9.1	621	1' x 4'	1	LO	26.2	1790
	2	STD	18.3	1225		1	STD	36.6	2480
1' x 2'	1	LO	13.1	906		1	HI	47.2	3160
	1	STD	18.3	1681		2	LO	47.9	4444
	1	HI	23.6	1585		2	STD	68.1	5906
	2	LO	26.2	1789		2	HI	90.1	7153
	2	STD	36.6	2477		2	LO	52.4	3605
	2	HI	47.2	3185	2' x 4'	2	STD	73.2	4985
2' x 2'	2	LO	26.2	1789		2	HI	90.0	6370
	2	STD	36.6	2477		3	LO	78.6	7526
	2	HI	47.2	3185		3	STD	109.8	10002
	3	LO	39.3	2880		3	HI	137.2	12114
	3	STD	54.9	3827		4	LO	104.8	9511
	3	HI	70.8	4635		4	STD	146.4	12639
	4	LO	52.4	3851		4	HI	180.0	15308
	4	STD	73.2	5117					
	4	HI	94.4	6198					

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

FMS LED**MOUNTING DIMENSIONS****2 x 2****2 x 4****1 x 2****1 x 1****1 x 4**

Fail-Safe

DESCRIPTION

The Fail-Safe FMSLED combines maximum security construction features with energy saving technology. This surface mounted luminaire utilizes a one-piece housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. ETL listed for damp locations; optional wet location under covered ceiling. The FMSLED is ideal for confinement/security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Fasteners

Stainless steel tamper-resistant T20 TORX® screws with center pin reject are standard. Allen-head screws with center pin reject optional.

Housing

Die-formed 12-18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless housing for maximum impact resistance and prevention of unauthorized fixture penetration.

Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

Hinge

Continuous, stainless steel piano hinge (1/4" diameter knuckle) with welded pin end to prevent removal.

Door

One-piece, CRS door frame with die-formed edges and tightly closed corners increases rigidity. Door gauge to match housing.

Light Mask

Black fixture gasket prevents light leaks.

Lens

Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side. See Lens Options.

LEDs

Available in 3000K, 3500K, 4000K and 5000K with CRI > 85. Projected life is 50,000 hours at 70% lumen maintenance.

Lens Retention

Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

Transformer/Driver

Electronic driver 120-277V. 0-10V dimming standard.

Labels

ETL listed for damp locations. Wet location under covered ceiling optional.



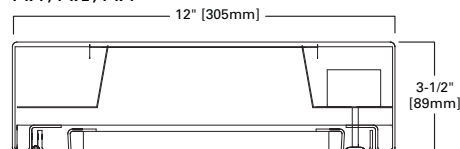
FMS LED

LD4 LED

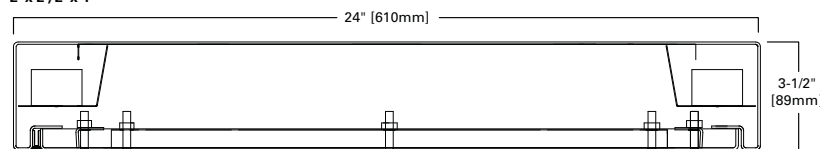
1' Width
2' Width
Confinement/Correctional

Surface

1' x 1', 1' x 2', 1' x 4'



2' x 2', 2' x 4'



TORX® is a registered trademark of Camcar Division of Textron Inc.

Submitted by Lighting Solutions		Catalog Number: FMS-X12-4-LD4-2LO-40-UNV-82-EDD1-SSN / EBPLED7W	Type: D1
Lighting Solutions lightingsolutionsinc.net		Job Name: JAMES T VAUGHN CORR CTR	Notes:
LTSRC16-37229			

FMS LED

ORDERING INFORMATION

SAMPLE NUMBER: FMS-X24-4-LD4-4STD-40-UNV-80/86-EDC1 or FMS-S12-2-LD4-2HI-50-277-82/87-EDC1-EL10W

Product Family	Door	Width	Length	LED	No. of LED	Illumination Level	Color Temp.	Voltage	Inner / Outer Lens	Driver	No. of Circuits	Options	Accessories
FMS				LD4					/				
<div> <div> FMS S=12 ga. X=14 ga. D=16 ga. N=18 ga. 24=24" Wide 12=12" Wide 1=1' Length (1' x 1' only) 2=2' Length 4=4' Length LD4=LED 1=(1) LED Module 2=(2) LED Modules 3=(3) LED Modules (24" width only) 4=(4) LED Modules (24" width only) STD=Standard LO=Low HI=High 30=3000K 35=3500K 40=4000K 50=5000K </div> <div> UNV=120-277V 120=120V 277=277V Lens Type Inner Layer (optional) 90=0.005 UV Absorbing Overlay Fixture Side 80=0.125 Prismatic Acrylic 81=0.156 Prismatic Polycarbonate 82=0.187 Prismatic Polycarbonate 93=0.156 Prismatic Tempered Glass Environmental Side 84=0.125 Clear Polycarbonate 85=0.187 Clear Polycarbonate 86=0.250 Clear Polycarbonate 87=0.375 Clear Polycarbonate 88=0.500 Clear Polycarbonate 94=0.187 Clear Tempered Glass 96=0.250 Clear Tempered Glass 97=0.375 Clear Tempered Glass Electronic Driver EDC=Electronic Driver, Non-dimming EDD=Electronic Driver, 0-10V Dimming, 10% ED1D=Electronic Driver, 0-10V Dimming, 1% </div> <div> 1=1 Circuit 2=2 Circuits 3=3 Circuits 4=4 Circuits EL7W=Emergency Battery² Pack, 7W Output EL10W=Emergency Battery^{2,3} Pack, 10W Output EL14W=Emergency Battery² Pack, 14W Output LLNL=Linear LED Night Light, Dimmable^{4,5} GLR=Fuse and Holder WL=Wet Location Under Covered Ceiling Stainless Steel Fixture SSN=Natural Brushed Finish SSP=Polyester Powder Coat Finish Fasteners SF3=Allen-Head (center pin reject) </div> <div> 9306=Allen-Head Wrench VRSD=T20 Center Pin Tamperproof TORX® - head screwdriver </div> </div>													

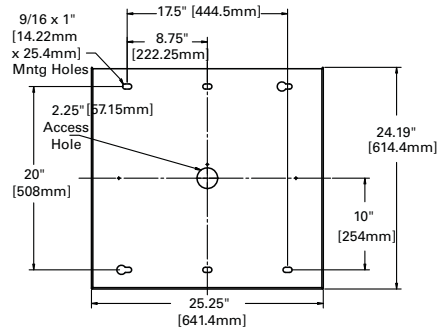
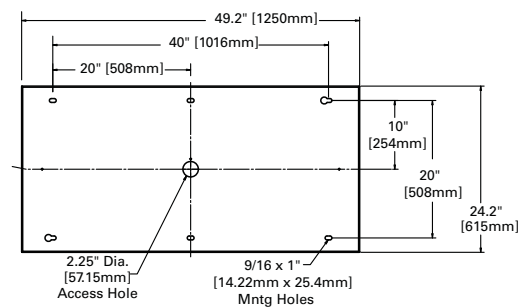
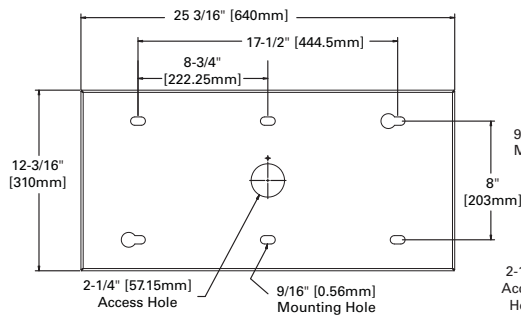
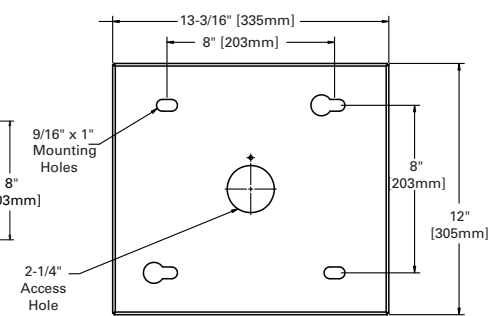
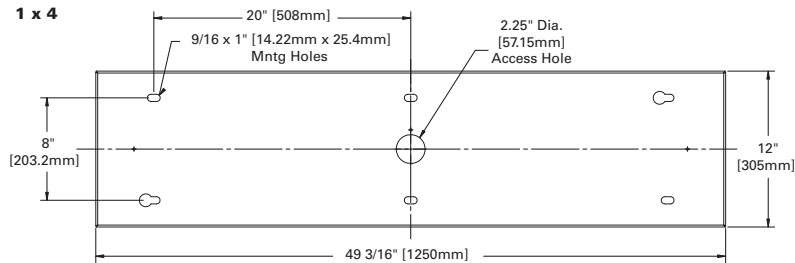
NOTES:

- See Lens Guide for additional lens choices.
- Not available 1' x 1' or 1' x 2'.
- Not available in "HI" illumination level. EL10W available all configurations "STD" or "LO". Emergency available "HI" all configurations except 2' x 2' and 2' x 4', 4-module LED cross section.
- LLNL not available in 1' x 1', 2-module LED cross section or 1' x 2', 2-module LED cross section.
- Nominal 600 delivered lumens.

NOMINAL INPUT WATTS/DELIVERED LUMENS (80/86 SHIELDING)

Fixture Size	# Modules	Level	(80/86 shielding)		Fixture Size	# Modules	Level	(80/86 shielding)	
			Nominal Input Watts	Nominal Delivered Lumens				Nominal Input Watts	Nominal Delivered Lumens
1' x 1'	1	STD	9.1	621	1' x 4'	1	LO	26.2	1790
	2	STD	18.3	1225		1	STD	36.6	2480
1' x 2'	1	LO	13.1	906		1	HI	47.2	3160
	1	STD	18.3	1681		2	LO	47.9	4444
	1	HI	23.6	1585		2	STD	68.1	5906
	2	LO	26.2	1789		2	HI	90.1	7153
	2	STD	36.6	2477	2' x 4'	2	LO	52.4	3605
	2	HI	47.2	3185		2	STD	73.2	4985
2' x 2'	2	LO	26.2	1789		2	HI	90.0	6370
	2	STD	36.6	2477		3	LO	78.6	7526
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	3	STD	54.9	3827		4	LO	104.8	9511
	3	HI	70.8	4635		4	STD	146.4	12639
	4	LO	52.4	3851		4	HI	180.0	15308
	4	STD	73.2	5117					
	4	HI	94.4	6198					

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

FMS LED**MOUNTING DIMENSIONS****2 x 2****2 x 4****1 x 2****1 x 1****1 x 4**

Sure-Lites

DESCRIPTION

When AC power fails, the Sure-Lites Emergency Battery Pack LED (EBP) automatically switches to emergency mode. The EBP maintains illumination of an LED fixture for a minimum of 90 minutes. The product line is UL924 classified for field retrofit installation and has guaranteed compatibility with Eaton LED fixtures with accessible LED drivers. The constant power feature ensures consistent light output of the fixture for 90 minutes minimum. The EZ Key and laser test features simplify maintenance and installation. These products are not for use with sealed and gasketed fixtures.

SPECIFICATION FEATURES**ELECTRONIC**

- Universal voltage input 120 through 277 VAC, 50/60Hz
- Constant power output of 7 Watts or 14 Watts depending on model
- Automatically senses voltage required within these ranges: EBPLED7W from 8 V to 55 V EBPLED7W-3H from 16 V to 55 V EBPLED14W from 16 V to 55 V
- Low-voltage disconnect to protect battery life
- Test Button/Indicator Light/laser test/external battery disconnect
- 0°C to 55°C operation

CONSTRUCTION

- Steel housing
- EBPLED7W = 10.06 inches
- EBPLED14W = 14.56 inches
- Plenum rated test button cable
- Lead wires and 24" flexible metallic conduit provided

BATTERY

- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full Recharge Time, 24 hours (max.)

- 90 minute run time EBPLED7W/ EBPLED14W
- 180 minute run time EBPLED7W-3H

WARRANTY

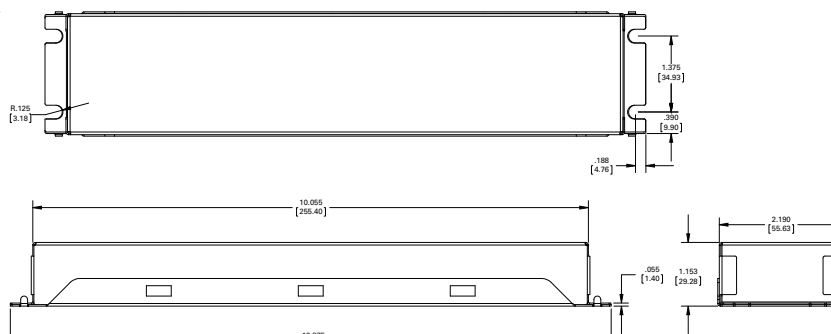
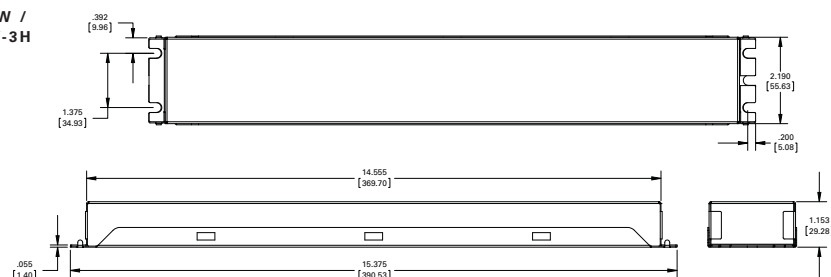
- Five-year warranty

CODE COMPLIANCE

- UL 924 Classified
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

HOW TO SPECIFY

Sure-Lites LED field installable emergency battery back with automatic voltage sensing, constant wattage output, external battery disconnect, laser test capability and nickel cadmium battery.

DIMENSIONS**EBPLED7W****EBPLED14W / EBPLED7W-3H****ORDERING INFORMATION**

SAMPLE NUMBER: EBPLED7W

Series	Output	Run time
EBPLED= LED Emergency Battery Pack	7W=7 Watt	=90 minute -3H=180 minute
	14W=14 Watt	=90 minute

**EBPLED7W****EBPLED14W****EBPLED7W-3H**

EBPLED Emergency Battery Packs

LED

Sure-Lites

EBPLED Series

TECHNICAL DATA

Universal Voltage Charger

Unit is supplied with a constant current, switch mode charging circuit which automatically detects the voltage level of the AC input (120V through 277V) and adjusts accordingly. This simplifies and mistake proof's the wiring.

Automatic Switching

The switching circuitry is designed to detect an absence of AC power and automatically switch into emergency operation. Upon restoration of AC power the lamps will automatically switch back to operating from the AC ballast.

Automatic detection of LED load forward voltage

Unit detects the LED forward voltage required (from 8V to 55V for 7W unit, 16V to 55V for 14W unit) and adjusts output current to provide constant wattage to the fixture, ensuring compatibility with a wide range of LED fixtures.

Constant Wattage Output

Unit provides constant power which ensures a consistent illumination while in emergency mode. Fixture lumen output is easily calculated by multiplying the unit wattage by the fixture efficacy (ie lumens/watt) from DLC data.

www.designlights.org

Example:

EBPLED = 14W

DLC EFF = 100 lumens/watt

EM Lumens = 14W x 100 lumens/watt
= 1400 lumens

Test Button/Indicator Light

Simulates interruption of AC power and illuminates LED fixture. LED charge indicator light indicates battery charger operation.

Laser Test

Enables remote testing by utilizing a laser pointer to simulate AC power loss and engagement of emergency operation. Can be mechanically activated by pushing the button or by optically activating with a laser tester.

EZ Key External Battery Disconnect

Prevents the battery from cycling during the construction phase and ensures a full battery charge for C.O. inspection.

Battery

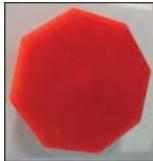
High temperature nickel cadmium battery pack is standard.

Warranty

All Sure-Lites EBP products are backed by a firm five-year warranty against defects in material and workmanship.

FEMA Requirement

EBP7W-3H provides a 3 hour run time to meet and exceed the FEMA tornado safe room requirement of two hours of operation.



EZ key



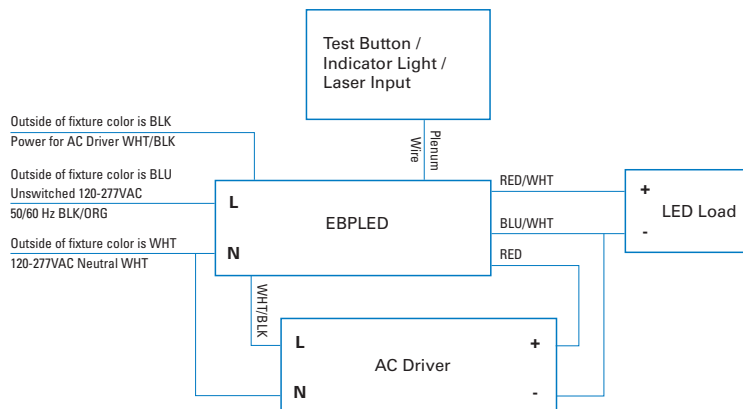
Test button



Laser tester

Part Number = LASER
(sold separately)

WIRING DIAGRAM



Lumark

DESCRIPTION

The Lumark Wal-Pak wall luminaire provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardware along with a sealed and gasketed optical compartment make the Wal-Pak virtually impenetrable to contaminants. IP66 Rated. Three available lamp sources including patented energy efficient LED, pulse start metal halide and high pressure sodium. UL/cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

SPECIFICATION FEATURES

Housing

Rugged one-piece die-cast aluminum housing and hinged, removable die-cast aluminum door. One-piece silicone gasket seals the optical chamber. UL 1598 wet location listed and IP66 ingress protection rated.

Electrical

Ballasts, LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone gasket at the back of the housing. Three 1/2" threaded conduit entry points allow for thru-branch wiring. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 6kV surge test and is Class 2 rated

for 120-277V with an operating temperature of -40° to 55°C. Wal-Pak LED systems maintain greater than 93% of the initial light output after 72,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (high pressure sodium: 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120, 208, 240, 277, 347 and 480V.

Optical

Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, and full cutoff IESNA compliant configurations. Patented, solid state LED luminaires are thermally optimized with three lumen packages. HID models are offered in horizontal medium or mogul-based metal halide [MP] or high pressure sodium [HP] lamps.

Door Assembly

Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

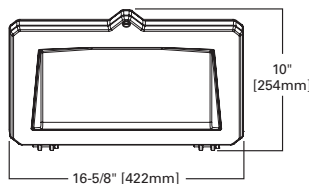
Finish

Finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is bronze. Additional colors available in white, grey, bronze, black, dark platinum and graphite metallic. Consult your lighting representative at Eaton for a complete selection of standard colors.

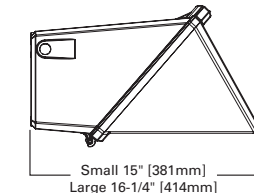
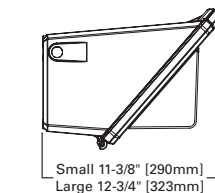
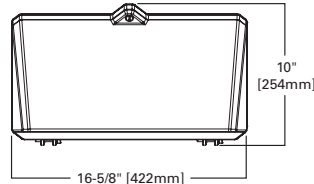


DIMENSIONS

BOROSILICATE GLASS DOOR (GL)



FULL CUTOFF DOOR (FC)



WP WAL-PAK

27, 32 and 46W

LED

70 - 400W

Pulse Start Metal Halide

150 - 400W

High Pressure Sodium

WALL MOUNT LUMINAIRE

TECHNICAL DATA

UL/cUL Wet Location Listed
 IP66 Rated
 40°C Maximum Ambient Temperature
 External Supply Wiring 90°C Minimum
 EISA @, ARRA, Title 20 Compliant
 LM79 / LM80 Compliant

ENERGY DATA

Reactor Ballast Input Watts
 150W HPS NPF (175 Watts)

High Reactance Ballast Input Watts

70W MP HPF (94 Watts)
 150W MP HPF (185 Watts)

CWA Ballast Input Watts


200W HPS HPF (250 Watts)
 250W MP HPF (283 Watts) ①
 400W HPS HPF (465 Watts)
 400W MP HPF (452 Watts) ②

SHIPPING DATA

Approximate Net Weight:
 32-42 lbs. (15-19 kgs.)

TD514018EN

2016-04-15 11:50:46

Submitted by Lighting Solutions		Catalog Number: LDWP-GL-4B-ED-PE / TR/WP / WG/WPGL Notes:	Type: F LTSRC16-37229
	Job Name: JAMES T VAUGHN CORR CTR		

WP WAL-PAK

POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	B.U.G. Rating	Correlated Color Temperature CCT (Kelvin)	Color Rendering Index (CRI)
Borosilicate Glass Door (GL)					
LDWP-GL-3B-ED-7040	3,270	27W	B1-U3-G1	4000K	73
LDWP-GL-4B-ED-7040	4,160	32W	B1-U3-G2	4000K	73
LDWP-GL-6B-ED-7040	5,828	46W	B1-U4-G4	4000K	73
LDWP-GL-3B-ED	3,333	27W	B1-U3-G1	5000K	72
LDWP-GL-4B-ED	4,199	32W	B1-U3-G3	5000K	73
LDWP-GL-6B-ED	5,883	46W	B1-U4-G4	5000K	73
Full Cutoff Door (FC)					
LDWP-FC-3B-ED-7040	1,884	27W	B1-U0-G1	4000K	72
LDWP-FC-4B-ED-7040	2,239	32W	B1-U0-G1	4000K	73
LDWP-FC-6B-ED-7040	3,137	47W	B1-U0-G1	4000K	73
LDWP-FC-3B-ED	1,912	27W	B1-U0-G1	5000K	72
LDWP-FC-4B-ED	2,279	32W	B1-U0-G1	5000K	73
LDWP-FC-6B-ED	3,192	46W	B1-U0-G1	5000K	73

CURRENT DRAW

Light Engine	3B	4B	6B
Nominal Power (Watts)	27W	32W	46W
Input Current @ 120V (A)	0.24	0.28	0.40
Input Current @ 208V (A)	0.14	0.16	0.23
Input Current @ 240V (A)	0.13	0.15	0.20
Input Current @ 277V (A)	0.11	0.13	0.18
Input Current @ 347V (A)	0.09	0.11	0.15
Input Current @ 480V (A)	0.10	0.12	0.14

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)*	Theoretical L70 (Hours)
25°C	> 93%	> 340,000
40°C	> 92%	> 316,000

* Per TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.07
15°C	1.04
25°C	1.00
40°C	0.94

Submitted by Lighting Solutions

Lighting Solutions

lightingsolutionsinc.net

Job Name:

JAMES T VAUGHN CORR CTR

Catalog Number:

LDWP-GL-4B-ED-PE / TR/WP / WG/WPGL

Notes:

Type:

F

LTSRC16-37229

WP WAL-PAK

ORDERING INFORMATION

Sample Number: LDWP-FC-4B-120V

Lamp Type	Product Family ²	Door Type ³	Lamp Wattage ⁴	Voltage ⁵
LD =Solid State Light-Emitting Diodes (LED) ¹ HP =High Pressure Sodium MP =Pulse Start Metal Halide	WP =Wal-Pak	GL =Borosilicate Glass Door FC =Full Cutoff Door	LED 3B =(3 Package), 27W 4B =(4 Package), 32W 6B =(6 Package), 46W HP 150 =150W 250 =250W 400 =400W MP 70 =70W 150 =150W 250 =250W 400 =400W	120V =120V 208V =208V 240V =240V 277V =277V 347V =347V ⁶ 480V =480V ⁶ DT =Dual-Tap MT =Multi-Tap TT =Tri-Tap 5T =5-Tap E =Electronic Ballast ⁷ ED =Electronic LED Driver
Options (Add as Suffix) ⁸ F1 =Single Fuse (Must Specify Voltage. 120, 277 or 347V) PE =Button Type Photocontrol (Must Specify Voltage. 120, 208, 240 or 277V) LL =Lamp Included Q =Quartz Restrike T4 Lamp ⁹ EM =Emergency Quartz Restrike T4 Lamp with Time Delay Relay ⁹ EMLED-CD =LED Battery Backup Cold Temperature ¹⁰ 7040 =72 CRI / 4000K CCT AP =Grey BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White			Accessories (Order Separately) WG/WPGL =Wire Guard Borosilicate Glass Lens Door WG/WPFC =Wire Guard Full Cutoff Door TR/WP =Tamper-resistant Screw and Bit VS/WPGL =Polycarbonate Vandal Shield for Borosilicate Glass Lens Door	

NOTES:
1. DesignLights Consortium Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Fixture color is standard bronze unless optional color is specified.
3. Small housing offered for 175W and below for LED models. Large housing for 250W-400W. Clear glass is standard for full cutoff door types except for LD. LD full cutoff door is standard with Solite® glass.
4. LED packages based on 70 CRI / 5000K package at 25°C ambient. Pulse start metal halide 175W and below are medium-base, all others are mogul-base.
5. See voltage chart for descriptions. 5T available in 400W MH models only. 90°C Rated wire required for thru-branch wiring for units 175W and lower. 105°C Rated wire required for thru-branch wiring for units 200W and higher. Thru-branch wiring is rated for 40°C for LD and 175W and below. Higher wattage thru-branch wiring is rated for use in 25°C ambient operating environments.
6. Not available with thru-branch wiring. LED will be supplied with integral step down transformer.
7. Available with 70-150W MP lamps. All electronic ballasts are universal 120-277V.
8. Not all options can be combined. Only one emergency or battery back-up option available within the fixture. LD models utilize EMLED-CD options only for battery back-up.
9. Q or EM not available with LD or E electronic ballast. Minimum 70W for HID wattages.
10. EMLED-CD available with B models only. For use in 25°C ambient operating temperature environments. Specify 120V or 277V. EMLED-CD minimum -20°C/-4°F. Battery pack is a UL recognized component.

STOCK ORDERING INFORMATION - LAMP INCLUDED

Sample Number: WPL4BC

Product Family	Lamp Type	Lamp Wattage	Door/Glass Type
WP =Wal-Pak	L =LED P =Pulse Start Metal Halide S =High Pressure Sodium	LED 3B =27W 4B =32W 6B =46W Pulse Start Metal Halide 15 =150W 25 =250W 40 =400W High Pressure Sodium 15 =150W 25 =250W 40 =400W	[Blank] =Standard C =Full Cutoff Door

NOTES:
1. Options not available with stock products. Refer to standard order information to add options. Multi-tap standard. Full cutoff door (C), and borosilicate glass door (GL) are standard. 3B, 4B and 6B models available in LED only. LED models are 120-277V. LED model standard with 5000K CCT, standard bronze color.

VOLTAGE CHART

DT =Dual-Tap	120, 277V (Wired 277V)
MT =Multi-Tap	120, 208, 240, 277V (Wired 277V)
TT =Triple-Tap	120, 277, 347V (Wired 347V)
5T =5-Tap	120, 208, 240, 277, 480V (Wired 480V)
E =Electronic Ballast	120-277V (Universal - 50-60Hz)
ED =Electronic LED Driver	120-277V (Universal - 50-60Hz)

EATON

Powering Business Worldwide

Eaton

1121 Highway 74 South

Peachtree City, GA 30269

P: 770-486-4800

www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514018EN

2016-04-15 11:50:46

Fail-Safe

DESCRIPTION

The Fail-Safe FCC LED combines maximum security construction features with energy saving technology. This corner-mounted luminaire utilizes a one-piece clamshell housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. ETL listed for damp locations, optional wet location under covered ceiling. The FCC Series is ideal for confinement/security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Housing / Door

Clamshell design combines die-formed 12, 14, 16, or 18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless, doorless housing which maximizes impact resistance and prevents contraband concealment and unauthorized fixture penetration.

Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

Fasteners

Stainless steel tamper-resistant T20 TORX® screws are standard. Allen-head screws with center reject pin are optional.

Hinge

Continuous, concealed piano hinge (1/4" dia. knuckle) with welded pin end to prevent removal.

Backplate

Die-formed CRS backplate forms an irretrievable blade trap to prevent contraband concealment.

Lens

Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side.

LEDs

Available in 3000K, 3500K, 4000K and 5000K with CRI > 85. Projected life is 50,000 hours at 70% lumen maintenance.

Lens Retention

Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

Driver

Electronic driver, 0-10V dimming optional.

Labels

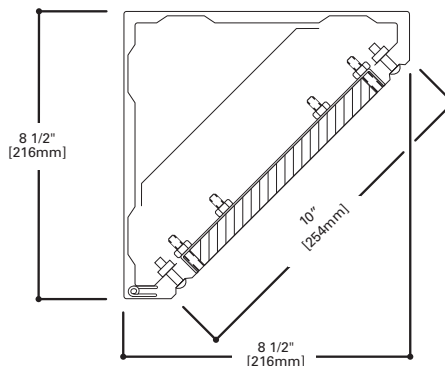
ETL listed for damp locations. Optional wet location under covered ceiling. IP rated.



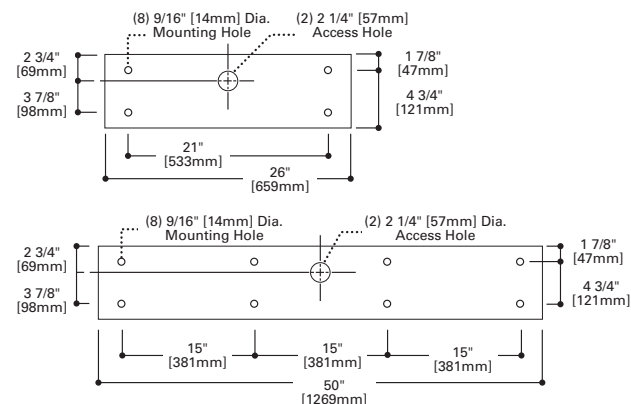
FCC

LD4 LED
Confinement/Correctional

CORNER MOUNT



MOUNTING DIMENSIONS



TORX® is a registered trademark of Camcar Division of Textron Inc.

Electronic Ballast Data
Consult Cooper Lighting Representative

Submitted by Lighting Solutions		Catalog Number: FCC-X-4-LD4-2LO-40-UNV-81/84-EDD1-WL-SSN	Type: G
Lighting Solutions lightingsolutionsinc.net		Job Name: JAMES T VAUGHN CORR CTR	Notes:
LTSRC16-37229			

FCC LED

ORDERING INFORMATION

SAMPLE NUMBER: FCC-X-4-LD4-2HI-40-UNV-80/86-EDD2

Product Family	Gauge	Length	LED	No. of LEDs	Illumination Level	Color Temperature	Voltage	Inner/Outer Lens ¹	Driver Type	No. of Circuits	Options
FCC			LD4					/			
FCC=Corner					STD=Standard LO=Low HI=High				Electronic Driver EDC__=Electronic Driver, Non-Dimming EDD__=Electronic Driver, 0-10V Dimming 10% ED1D__=Electronic Driver, 0-10V Dimming 1%	1= 1 Circuit 2= 2 Circuit	SSN=Stainless Steel Housing and Door, Brushed SSP=Stainless Steel Housing and Door Powder Coat Painted White GLR=Fuse and Holder EL7W=7W EM Battery Pack EL10W=10W EM Battery Pack ² EL14W=14W EM Battery Pack LLNL=Linear LED Night Light, (Dimmable) WL=Wet Location Listed, Under Covered Ceiling
S=12 ga. X=14 ga. D=16 ga. N=18 ga.					30=3000K 35=3500K 40=4000K 50=5000K						
2=2' 4=4'					120=120V 277=277V UNV=120V-277V						
LD4=LED, Version 4.0					Inner Layer (optional) 90=.005 UV Absorbing Overlay Fixture Side 80= 0.125 Prismatic Acrylic 81= 0.156 Prismatic Polycarbonate 82= 0.187 Prismatic Polycarbonate 93= 0.156 Prismatic Tempered Glass						
1=(1) LED Module in Cross Section 2=(2) LED Modules in Cross Section					Environmental Side 84=.125 Clear Polycarbonate 85=.187 Clear Polycarbonate 86=.250 Clear Polycarbonate 87=.375 Clear Polycarbonate 88=.500 Clear Polycarbonate 94=.187 Clear Tempered Glass 96=.250 Clear Tempered Glass 98=.500 Clear Tempered Glass						

Notes:

¹ See Lens Ordering Guide (on website) for additional lens choices.

² EM10W not available with 2 LED modules in cross-section for 2' length fixture. EM/LLNL combination not available with 2' length fixture. EM/LLNL combination not available with "HI" illumination lead with 4' length fixture.

NOMINAL INPUT WATTS/DELIVERED LUMENS

				(80/86 shielding)
Fixture Length	# Modules	Level	Nominal Input Watts	Nominal Delivered Lumens
4'	1	LO	26.2	2117
	1	STD	36.6	3172
	1	HI	45.2	3499
	2	LO	52.2	4482
	2	STD	73.2	6508
	2	HI	94.4	7178
2'	1	LO	12.6	1065
	1	STD	17.3	1448
	1	HI	22.4	1596
	2	LO	26.2	2185
	2	STD	36.6	2968
	2	HI	44.9	3274

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Submitted by Lighting Solutions Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Catalog Number: FCC-X-4-LD4-2LO-40-UNV-81/84- EDD1-WL-SSN / EBPLED7W Notes:	Type: G1 LTSRC16-37229
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Fail-Safe

DESCRIPTION

The Fail-Safe FCC LED combines maximum security construction features with energy saving technology. This corner-mounted luminaire utilizes a one-piece clamshell housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. ETL listed for damp locations, optional wet location under covered ceiling. The FCC Series is ideal for confinement/security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Housing / Door

Clamshell design combines die-formed 12, 14, 16, or 18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless, doorless housing which maximizes impact resistance and prevents contraband concealment and unauthorized fixture penetration.

Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

Fasteners

Stainless steel tamper-resistant T20 TORX® screws are standard. Allen-head screws with center reject pin are optional.

Hinge

Continuous, concealed piano hinge (1/4" dia. knuckle) with welded pin end to prevent removal.

Backplate

Die-formed CRS backplate forms an irretrievable blade trap to prevent contraband concealment.

Lens

Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side.

LEDs

Available in 3000K, 3500K, 4000K and 5000K with CRI > 85. Projected life is 50,000 hours at 70% lumen maintenance.

Lens Retention

Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

Driver

Electronic driver, 0-10V dimming optional.

Labels

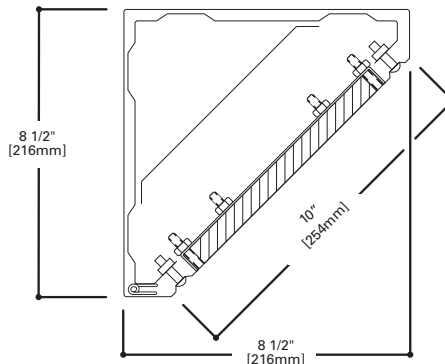
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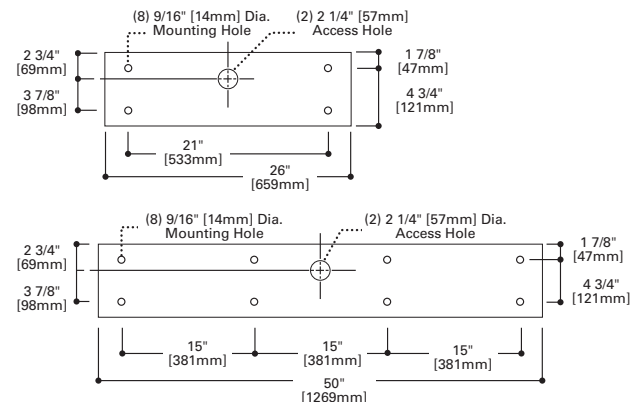
FCC

LD4 LED
Confinement/Correctional

CORNER MOUNT



MOUNTING DIMENSIONS



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Electronic Ballast Data
Consult Cooper Lighting Representative

FCC LED

ORDERING INFORMATION

SAMPLE NUMBER: FCC-X-4-LD4-2HI-40-UNV-80/86-EDD2

Product Family	Gauge	Length	LED	No. of LEDs	Illumination Level	Color Temperature	Voltage	Inner/Outer Lens ¹	Driver Type	No. of Circuits	Options
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FCC=Corner					STD=Standard LO=Low HI=High				Electronic Driver EDC__=Electronic Driver, Non-Dimming EDD__=Electronic Driver, 0-10V Dimming 10% ED1D__=Electronic Driver, 0-10V Dimming 1%	1= 1 Circuit 2= 2 Circuit	SSN=Stainless Steel Housing and Door, Brushed SSP=Stainless Steel Housing and Door Powder Coat Painted White GLR=Fuse and Holder EL7W=7W EM Battery Pack EL10W=10W EM Battery Pack ² EL14W=14W EM Battery Pack LLNL=Linear LED Night Light, (Dimmable) WL=Wet Location Listed, Under Covered Ceiling
S=12 ga. X=14 ga. D=16 ga. N=18 ga.					30=3000K 35=3500K 40=4000K 50=5000K						
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² EM10W not available with 2 LED modules in cross-section for 2' length fixture. EM/LLNL combination not available with 2' length fixture. EM/LLNL combination not available with "HI" illumination lead with 4' length fixture.

NOMINAL INPUT WATTS/DELIVERED LUMENS

				(80/86 shielding)
Fixture Length	# Modules	Level	Nominal Input Watts	Nominal Delivered Lumens
4'	1	LO	26.2	2117
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	2	LO	52.2	4482
	2	STD	73.2	6508
	2	HI	94.4	7178
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	2	HI	44.9	3274

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Sure-Lites

DESCRIPTION

When AC power fails, the Sure-Lites Emergency Battery Pack LED (EBP) automatically switches to emergency mode. The EBP maintains illumination of an LED fixture for a minimum of 90 minutes. The product line is UL924 classified for field retrofit installation and has guaranteed compatibility with Eaton LED fixtures with accessible LED drivers. The constant power feature ensures consistent light output of the fixture for 90 minutes minimum. The EZ Key and laser test features simplify maintenance and installation. These products are not for use with sealed and gasketed fixtures.

SPECIFICATION FEATURES**ELECTRONIC**

- Universal voltage input 120 through 277 VAC, 50/60Hz
- Constant power output of 7 Watts or 14 Watts depending on model
- Automatically senses voltage required within these ranges: EBPLED7W from 8 V to 55 V EBPLED7W-3H from 16 V to 55 V EBPLED14W from 16 V to 55 V
- Low-voltage disconnect to protect battery life
- Test Button/Indicator Light/laser test/external battery disconnect
- 0°C to 55°C operation

CONSTRUCTION

- Steel housing
- EBPLED7W = 10.06 inches
- EBPLED14W = 14.56 inches
- Plenum rated test button cable
- Lead wires and 24" flexible metallic conduit provided

BATTERY

- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full Recharge Time, 24 hours (max.)

- 90 minute run time EBPLED7W/ EBPLED14W
- 180 minute run time EBPLED7W-3H

WARRANTY

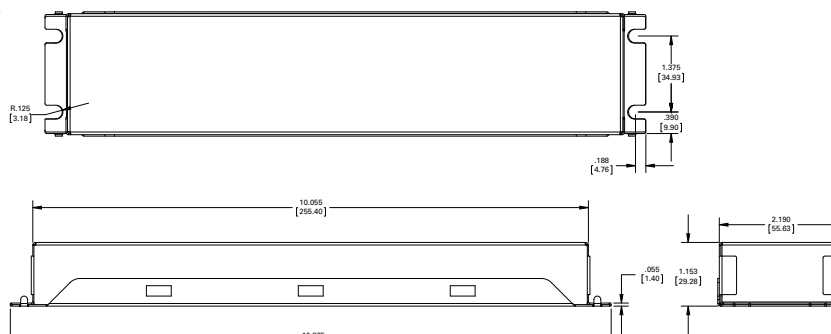
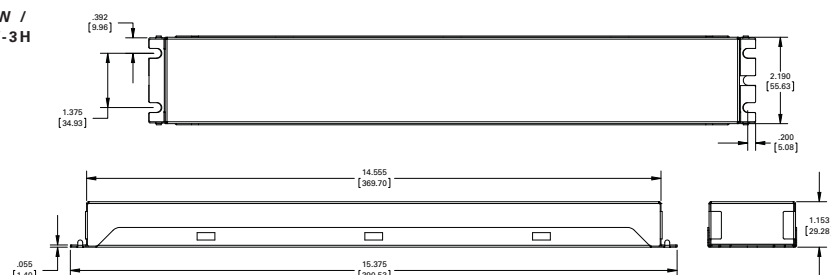
- Five-year warranty

CODE COMPLIANCE

- UL 924 Classified
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

HOW TO SPECIFY

Sure-Lites LED field installable emergency battery back with automatic voltage sensing, constant wattage output, external battery disconnect, laser test capability and nickel cadmium battery.

DIMENSIONS**EBPLED7W****EBPLED14W / EBPLED7W-3H****ORDERING INFORMATION**

SAMPLE NUMBER: EBPLED7W

Series	Output	Run time
EBPLED= LED Emergency Battery Pack	7W=7 Watt	=90 minute -3H=180 minute
	14W=14 Watt	=90 minute

**EBPLED7W****EBPLED14W****EBPLED7W-3H**

EBPLED Emergency Battery Packs

LED

Sure-Lites

EBPLED Series

TECHNICAL DATA

Universal Voltage Charger

Unit is supplied with a constant current, switch mode charging circuit which automatically detects the voltage level of the AC input (120V through 277V) and adjusts accordingly. This simplifies and mistake proof's the wiring.

Automatic Switching

The switching circuitry is designed to detect an absence of AC power and automatically switch into emergency operation. Upon restoration of AC power the lamps will automatically switch back to operating from the AC ballast.

Automatic detection of LED load forward voltage

Unit detects the LED forward voltage required (from 8V to 55V for 7W unit, 16V to 55V for 14W unit) and adjusts output current to provide constant wattage to the fixture, ensuring compatibility with a wide range of LED fixtures.

Constant Wattage Output

Unit provides constant power which ensures a consistent illumination while in emergency mode. Fixture lumen output is easily calculated by multiplying the unit wattage by the fixture efficacy (ie lumens/watt) from DLC data.

www.designlights.org

Example:

EBPLED = 14W

DLC EFF = 100 lumens/watt

EM Lumens = 14W x 100 lumens/watt
= 1400 lumens

Test Button/Indicator Light

Simulates interruption of AC power and illuminates LED fixture. LED charge indicator light indicates battery charger operation.

Laser Test

Enables remote testing by utilizing a laser pointer to simulate AC power loss and engagement of emergency operation. Can be mechanically activated by pushing the button or by optically activating with a laser tester.

EZ Key External Battery Disconnect

Prevents the battery from cycling during the construction phase and ensures a full battery charge for C.O. inspection.

Battery

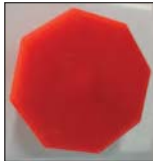
High temperature nickel cadmium battery pack is standard.

Warranty

All Sure-Lites EBP products are backed by a firm five-year warranty against defects in material and workmanship.

FEMA Requirement

EBP7W-3H provides a 3 hour run time to meet and exceed the FEMA tornado safe room requirement of two hours of operation.



EZ key



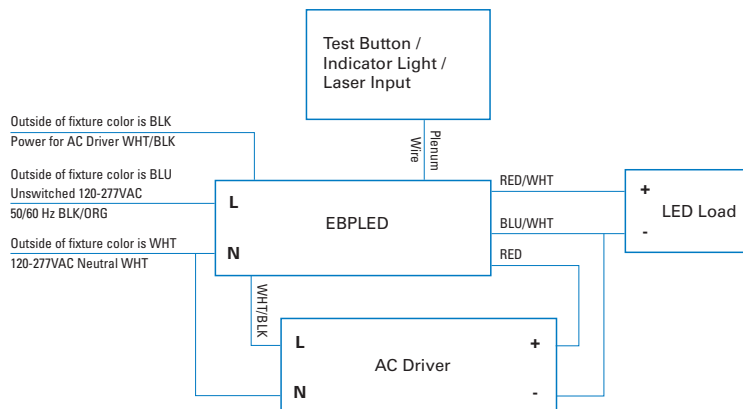
Test button



Laser tester

Part Number = LASER
(sold separately)

WIRING DIAGRAM



McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES**Construction**

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

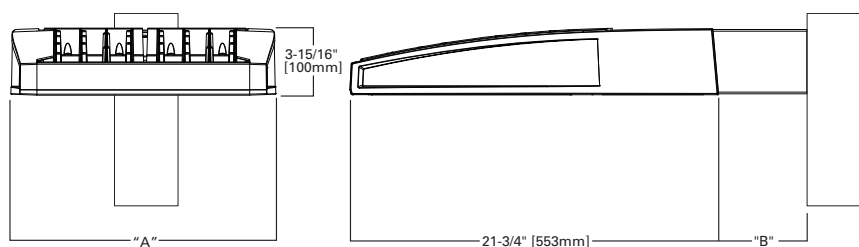
Five-year warranty.



GLEON GALLEON LED

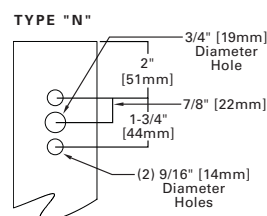
1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS**DIMENSION DATA**

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN**CERTIFICATION DATA**

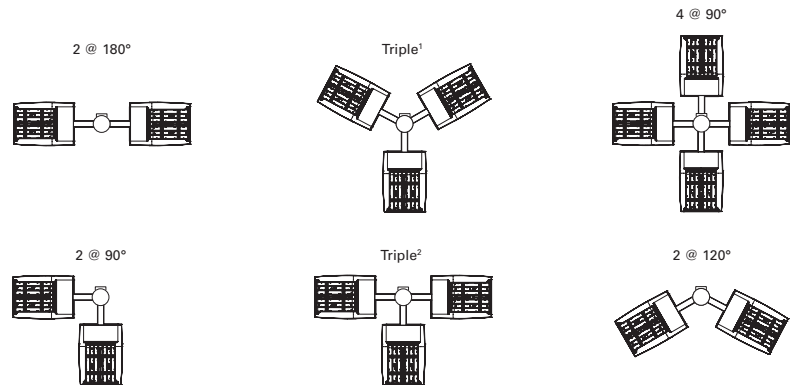
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

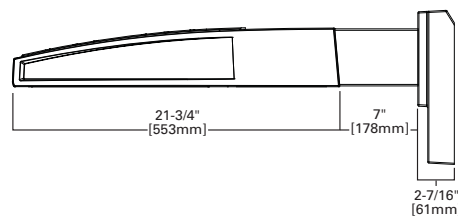
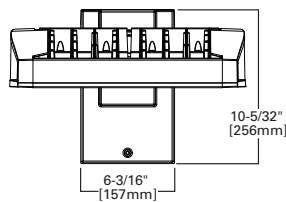
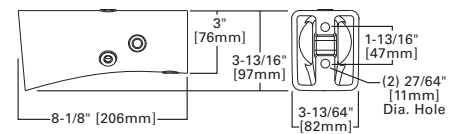
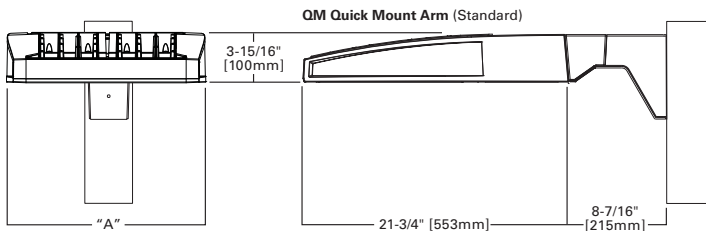
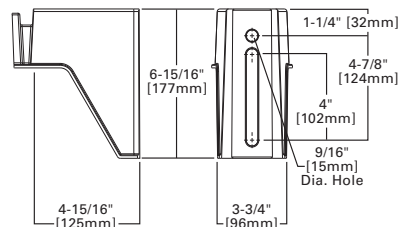
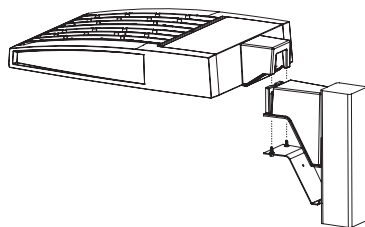
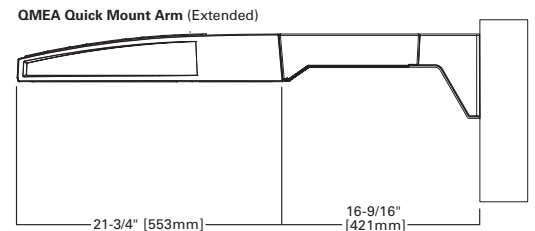
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

GLEON GALLEON LED**ARM MOUNTING REQUIREMENTS**

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

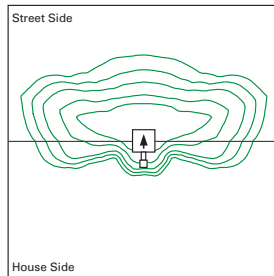
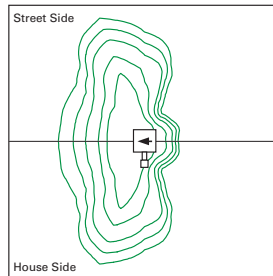
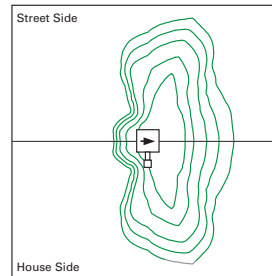
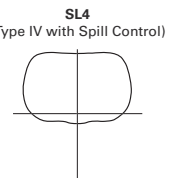
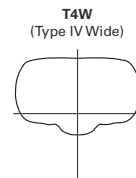
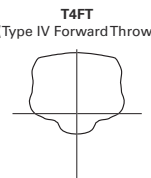
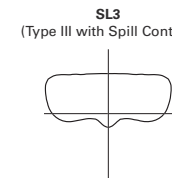
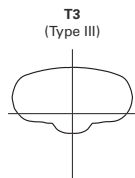
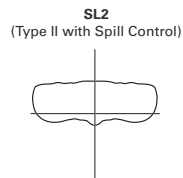
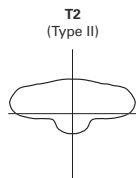
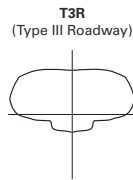
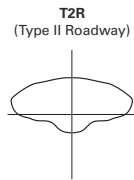
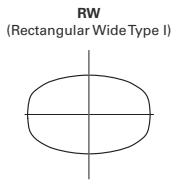
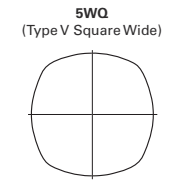
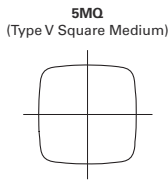
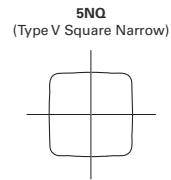
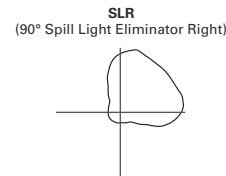
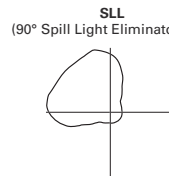
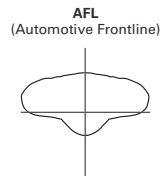


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

STANDARD WALL MOUNT**MAST ARM MOUNT****QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)****QM Quick Mount Arm (Standard)****QMEA Quick Mount Arm (Extended)****QUICK MOUNT ARM DATA**

Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

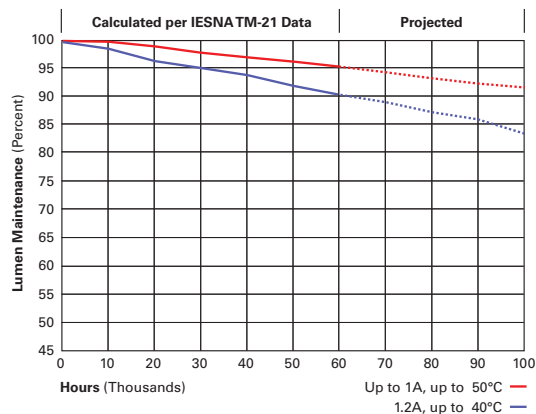
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

GLEON GALLEON LED**OPTIC ORIENTATION****Standard****Optics Rotated Left @ 90° [L90]****Optics Rotated Right @ 90° [R90]****OPTICAL DISTRIBUTIONS****Asymmetric Area Distributions****Asymmetric Roadway Distributions****Symmetric Distributions****Specialized Distributions****LUMEN MAINTENANCE**

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

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



GLEON GALLEON LED

NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,709	13,111	19,562	25,848	32,026	38,325	45,324	51,355	57,286	63,424
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	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	B4-U0-G5
T2R	4000K/5000K Lumens	7,122	13,919	20,769	27,442	34,000	40,687	48,117	54,519	60,816	67,333
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,838	13,363	19,939	26,346	32,642	39,062	46,196	52,343	58,388	64,646
	3000K Lumens	6,053	11,829	17,650	23,321	28,895	34,578	40,893	46,334	51,685	57,225
	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	B4-U0-G5
T3R	4000K/5000K Lumens	6,990	13,660	20,382	26,931	33,368	39,930	47,223	53,506	59,686	66,081
	3000K Lumens	6,188	12,092	18,042	23,839	29,537	35,346	41,802	47,364	52,834	58,495
	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	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,878	13,440	20,055	26,499	32,832	39,289	46,464	52,646	58,726	65,020
	3000K Lumens	6,088	11,897	17,753	23,457	29,063	34,779	41,130	46,602	51,984	57,556
	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	B4-U0-G5
T4W	4000K/5000K Lumens	6,789	13,267	19,795	26,156	32,408	38,781	45,864	51,967	57,968	64,180
	3000K Lumens	6,010	11,744	17,523	23,153	28,688	34,329	40,599	46,001	51,313	56,812
	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	B4-U0-G5
SL2	4000K/5000K Lumens	6,697	13,088	19,529	25,804	31,970	38,259	45,245	51,267	57,186	63,315
	3000K Lumens	5,928	11,585	17,287	22,842	28,300	33,867	40,051	45,382	50,621	56,046
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,837	13,361	19,936	26,342	32,639	39,057	46,189	52,336	58,380	64,636
	3000K Lumens	6,052	11,827	17,647	23,318	28,892	34,573	40,887	46,328	51,678	57,216
	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	B4-U0-G5
SL4	4000K/5000K Lumens	6,496	12,695	18,943	25,029	31,011	37,110	43,886	49,727	55,470	61,414
	3000K Lumens	5,750	11,238	16,768	22,156	27,451	32,850	38,848	44,018	49,102	54,364
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,052	13,781	20,564	27,171	33,664	40,285	47,641	53,981	60,215	66,669
	3000K Lumens	6,242	12,199	18,203	24,052	29,799	35,660	42,172	47,784	53,302	59,015
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	7,182	14,034	20,942	27,671	34,284	41,027	48,518	54,975	61,323	67,896
	3000K Lumens	6,358	12,423	18,538	24,494	30,348	36,317	42,948	48,664	54,283	60,102
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	7,201	14,073	20,998	27,744	34,375	41,136	48,648	55,121	61,487	68,077
	3000K Lumens	6,374	12,457	18,587	24,559	30,429	36,414	43,063	48,793	54,428	60,262
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,009	11,741	17,519	23,148	28,681	34,321	40,589	45,990	51,301	56,798
	3000K Lumens	5,319	10,393	15,508	20,491	25,388	30,381	35,929	40,710	45,412	50,278
	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	B4-U0-G5
RW	4000K/5000K Lumens	6,989	13,657	20,378	26,925	33,360	39,921	47,211	53,494	59,672	66,066
	3000K Lumens	6,187	12,089	18,039	23,834	29,530	35,338	41,791	47,353	52,822	58,482
	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	B5-U0-G4
AFL	4000K/5000K Lumens	7,014	13,706	20,452	27,023	33,481	40,066	47,383	53,688	59,888	66,306
	3000K Lumens	6,209	12,133	18,104	23,921	29,637	35,466	41,943	47,525	53,013	58,694
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

GLEON GALLEON LED

NOMINAL POWER LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.6	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K/5000K Lumens	6,116	11,951	17,833	23,563	29,195	34,937	41,317	46,814	52,221	57,817
	3000K Lumens	5,414	10,579	15,786	20,858	25,843	30,926	36,574	41,440	46,226	51,180
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,493	12,688	18,932	25,015	30,994	37,090	43,863	49,699	55,439	61,380
	3000K Lumens	5,748	11,231	16,759	22,143	27,436	32,832	38,828	43,994	49,075	54,334
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,234	12,181	18,176	24,017	29,756	35,609	42,111	47,715	53,225	58,930
	3000K Lumens	5,518	10,783	16,089	21,260	26,340	31,521	37,277	42,237	47,115	52,165
	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	B4-U0-G5
T3R	4000K/5000K Lumens	6,372	12,453	18,580	24,550	30,418	36,400	43,048	48,776	54,409	60,239
	3000K Lumens	5,640	11,023	16,447	21,732	26,926	32,221	38,106	43,177	48,163	53,324
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,270	12,252	18,282	24,156	29,929	35,815	42,356	47,992	53,534	59,271
	3000K Lumens	5,550	10,845	16,183	21,383	26,493	31,703	37,494	42,483	47,388	52,467
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,189	12,094	18,045	23,844	29,543	35,352	41,809	47,372	52,843	58,506
	3000K Lumens	5,479	10,706	15,973	21,107	26,151	31,294	37,009	41,934	46,777	51,790
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,105	11,931	17,803	23,522	29,144	34,877	41,245	46,734	52,130	57,717
	3000K Lumens	5,404	10,561	15,759	20,822	25,798	30,873	36,510	41,369	46,145	51,091
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,233	12,180	18,174	24,013	29,753	35,604	42,106	47,708	53,218	58,921
	3000K Lumens	5,517	10,782	16,088	21,256	26,337	31,517	37,272	42,231	47,109	52,157
	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	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	5,922	11,572	17,268	22,816	28,269	33,829	40,006	45,330	50,566	55,984
	3000K Lumens	5,242	10,244	15,286	20,197	25,024	29,945	35,413	40,126	44,761	49,557
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,429	12,563	18,746	24,768	30,688	36,723	43,429	49,208	54,891	60,775
	3000K Lumens	5,691	11,121	16,594	21,925	27,165	32,507	38,443	43,559	48,590	53,798
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	6,547	12,794	19,090	25,224	31,253	37,400	44,228	50,114	55,902	61,893
	3000K Lumens	5,795	11,325	16,898	22,328	27,665	33,106	39,151	44,361	49,484	54,788
	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	B5-U0-G5
5WQ	4000K/5000K Lumens	6,564	12,828	19,141	25,291	31,336	37,499	44,347	50,248	56,051	62,058
	3000K Lumens	5,810	11,355	16,944	22,388	27,739	33,194	39,256	44,480	49,616	54,934
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,478	10,703	15,970	21,102	26,145	31,286	37,001	41,924	46,765	51,777
	3000K Lumens	4,849	9,474	14,137	18,679	23,144	27,694	32,753	37,111	41,396	45,833
	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	B3-U0-G5
RW	4000K/5000K Lumens	6,371	12,449	18,576	24,544	30,411	36,392	43,037	48,764	54,396	60,225
	3000K Lumens	5,640	11,020	16,443	21,726	26,920	32,214	38,096	43,166	48,151	53,311
	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	B5-U0-G4
AFL	4000K/5000K Lumens	6,394	12,494	18,644	24,634	30,521	36,524	43,194	48,942	54,593	60,444
	3000K Lumens	5,660	11,060	16,504	21,806	27,017	32,331	38,235	43,323	48,326	53,505
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

Submitted by Lighting Solutions		Catalog Number: GLEON-AF-08-LED-E1-T3-BZ-ADJS-R / OA/RA1016 Notes: LESS 4 FT CORD	Type: H
Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR		
LTSRC16-37229			

GLEON GALLEON LED

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	4,941	9,656	14,408	19,038	23,588	28,227	33,382	37,823	42,191	46,713
	3000K Lumens	4,374	8,547	12,754	16,852	20,880	24,987	29,550	33,481	37,347	41,350
	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-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,246	10,251	15,296	20,211	25,041	29,966	35,439	40,154	44,791	49,592
	3000K Lumens	4,644	9,074	13,540	17,891	22,166	26,526	31,371	35,544	39,649	43,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,037	9,842	14,685	19,404	24,041	28,770	34,024	38,551	43,003	47,612
	3000K Lumens	4,459	8,712	12,999	17,176	21,281	25,467	30,118	34,125	38,066	42,146
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,148	10,061	15,011	19,835	24,576	29,409	34,780	39,408	43,959	48,669
	3000K Lumens	4,557	8,906	13,288	17,558	21,755	26,033	30,787	34,884	38,913	43,082
	BUG Rating	B1-U0-G2	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
T4FT	4000K/5000K Lumens	5,066	9,899	14,770	19,516	24,181	28,936	34,221	38,774	43,252	47,888
	3000K Lumens	4,484	8,763	13,074	17,276	21,405	25,614	30,292	34,323	38,287	42,390
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,000	9,771	14,579	19,264	23,869	28,562	33,779	38,274	42,694	47,269
	3000K Lumens	4,426	8,649	12,905	17,052	21,129	25,283	29,901	33,880	37,793	41,843
	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	B4-U0-G5
SL2	4000K/5000K Lumens	4,933	9,639	14,383	19,005	23,547	28,178	33,324	37,758	42,118	46,632
	3000K Lumens	4,367	8,532	12,732	16,823	20,844	24,943	29,498	33,423	37,283	41,279
	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	B4-U0-G5
SL3	4000K/5000K Lumens	5,036	9,841	14,683	19,401	24,039	28,766	34,019	38,546	42,997	47,605
	3000K Lumens	4,458	8,711	12,997	17,174	21,279	25,464	30,114	34,121	38,061	42,140
	BUG Rating	B1-U0-G2	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
SL4	4000K/5000K Lumens	4,784	9,350	13,951	18,434	22,840	27,332	32,323	36,624	40,854	45,232
	3000K Lumens	4,235	8,277	12,349	16,318	20,218	24,194	28,612	32,420	36,164	40,039
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,194	10,150	15,145	20,011	24,794	29,670	35,088	39,757	44,349	49,102
	3000K Lumens	4,598	8,985	13,406	17,714	21,948	26,264	31,060	35,193	39,258	43,465
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,290	10,337	15,424	20,380	25,250	30,217	35,734	40,489	45,165	50,006
	3000K Lumens	4,683	9,150	13,653	18,040	22,351	26,748	31,632	35,841	39,980	44,265
	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	B5-U0-G4
5WQ	4000K/5000K Lumens	5,304	10,365	15,465	20,434	25,318	30,297	35,830	40,597	45,286	50,139
	3000K Lumens	4,695	9,175	13,690	18,088	22,411	26,819	31,717	35,936	40,087	44,383
	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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,426	8,648	12,903	17,049	21,124	25,278	29,894	33,872	37,784	41,832
	3000K Lumens	3,918	7,655	11,422	15,092	18,699	22,376	26,462	29,983	33,446	37,030
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,147	10,058	15,009	19,830	24,570	29,402	34,771	39,399	43,949	48,658
	3000K Lumens	4,556	8,903	13,286	17,554	21,749	26,027	30,779	34,876	38,904	43,072
	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	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,166	10,095	15,063	19,903	24,659	29,509	34,898	39,542	44,108	48,835
	3000K Lumens	4,573	8,936	13,334	17,618	21,828	26,121	30,892	35,003	39,044	43,229
	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	B3-U0-G3

* Nominal data for 70 CRI.

LTsrc16-37229

GLEON GALLEON LED

NOMINAL POWER LUMENS (600MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K/5000K Lumens	4,029	7,874	11,749	15,525	19,235	23,019	27,222	30,844	34,406	38,093
	3000K Lumens	3,566	6,970	10,400	13,743	17,027	20,376	24,097	27,303	30,456	33,720
	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	B3-U0-G4
T2R	4000K/5000K Lumens	4,278	8,360	12,474	16,482	20,421	24,437	28,900	32,745	36,527	40,441
	3000K Lumens	3,787	7,400	11,042	14,590	18,077	21,632	25,582	28,986	32,334	35,798
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,107	8,026	11,976	15,824	19,605	23,461	27,746	31,438	35,068	38,827
	3000K Lumens	3,636	7,105	10,601	14,007	17,354	20,768	24,561	27,829	31,042	34,370
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T3R	4000K/5000K Lumens	4,198	8,205	12,242	16,175	20,041	23,982	28,363	32,137	35,848	39,689
	3000K Lumens	3,716	7,263	10,837	14,318	17,740	21,229	25,107	28,448	31,733	35,133
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,131	8,072	12,045	15,915	19,719	23,597	27,907	31,620	35,272	39,052
	3000K Lumens	3,657	7,145	10,662	14,088	17,455	20,888	24,703	27,990	31,223	34,569
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,077	7,968	11,889	15,710	19,465	23,292	27,546	31,212	34,816	38,547
	3000K Lumens	3,609	7,053	10,524	13,906	17,230	20,618	24,384	27,629	30,819	34,122
	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	B3-U0-G5
SL2	4000K/5000K Lumens	4,022	7,861	11,729	15,498	19,202	22,979	27,175	30,791	34,347	38,028
	3000K Lumens	3,560	6,959	10,383	13,719	16,998	20,341	24,055	27,256	30,404	33,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL3	4000K/5000K Lumens	4,106	8,025	11,974	15,821	19,603	23,458	27,742	31,433	35,064	38,821
	3000K Lumens	3,635	7,104	10,599	14,005	17,353	20,765	24,557	27,824	31,039	34,364
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,902	7,624	11,377	15,033	18,626	22,289	26,359	29,867	33,316	36,886
	3000K Lumens	3,454	6,749	10,071	13,307	16,488	19,730	23,333	26,438	29,491	32,651
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,236	8,277	12,351	16,319	20,219	24,196	28,614	32,422	36,166	40,042
	3000K Lumens	3,750	7,327	10,933	14,446	17,898	21,418	25,329	28,700	32,014	35,445
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,314	8,429	12,578	16,619	20,591	24,641	29,141	33,019	36,832	40,779
	3000K Lumens	3,819	7,461	11,134	14,711	18,227	21,812	25,796	29,228	32,604	36,098
	BUG Rating	B3-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	B5-U0-G4
5WQ	4000K/5000K Lumens	4,325	8,452	12,611	16,664	20,646	24,707	29,219	33,106	36,930	40,888
	3000K Lumens	3,828	7,482	11,163	14,751	18,276	21,871	25,865	29,305	32,690	36,194
	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	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,609	7,052	10,522	13,903	17,226	20,613	24,378	27,622	30,812	34,114
	3000K Lumens	3,195	6,242	9,314	12,307	15,248	18,247	21,579	24,451	27,275	30,198
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,197	8,202	12,239	16,171	20,036	23,977	28,356	32,129	35,839	39,680
	3000K Lumens	3,715	7,260	10,834	14,315	17,736	21,224	25,101	28,441	31,725	35,125
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,213	8,232	12,284	16,230	20,109	24,064	28,459	32,246	35,969	39,824
	3000K Lumens	3,729	7,287	10,874	14,367	17,800	21,301	25,192	28,544	31,840	35,252
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

Submitted by Lighting Solutions Lighting Solutions lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Catalog Number: GLEON-AF-08-LED-E1-T3-BZ-ADJS-R / OA/RA1016 Notes: LESS 4 FT CORD	Type: H LTSRC16-37229
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GLEON GALLEON LED

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.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) 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 PER7 receptacle.

After Hours Dim (AHD)

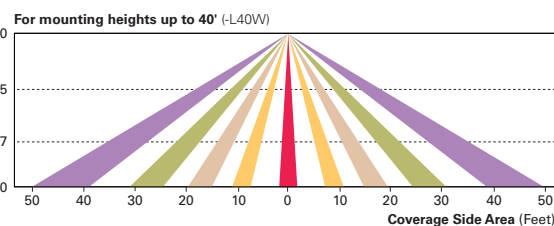
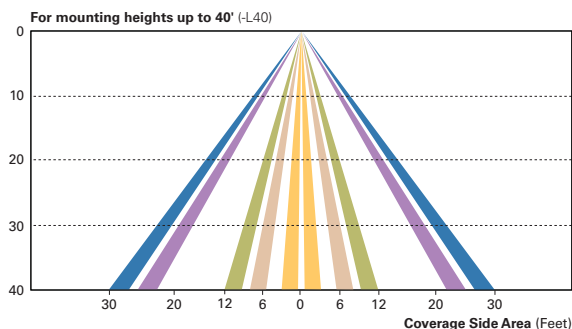
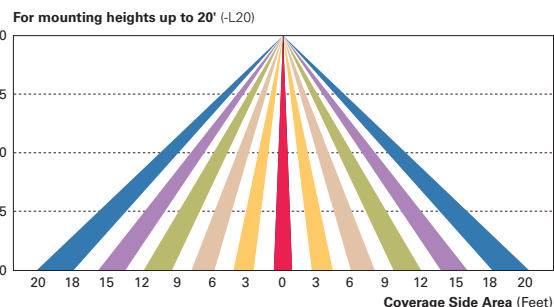
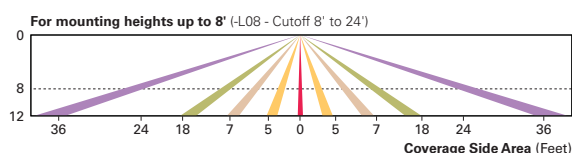
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile 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 (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is 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. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

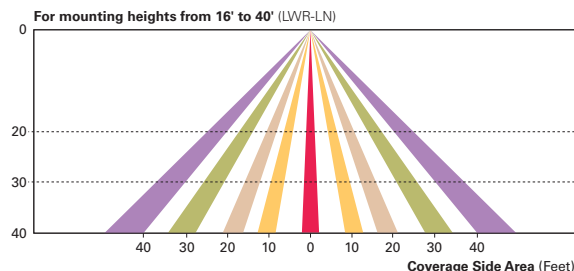
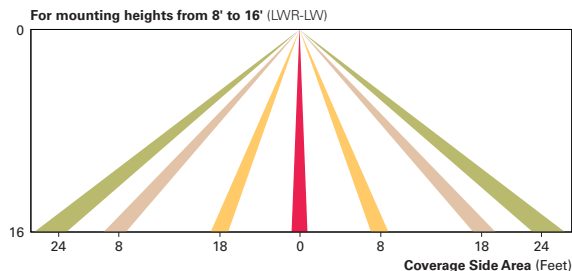
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



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

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.



Submitted by Lighting Solutions

Lighting Solutions

lightingsolutionsinc.net

Job Name:

JAMES T VAUGHN CORR CTR

Catalog Number:

GLEON-AF-08-LED-E1-T3-BZ-ADJS-R / OA/RA1016

Notes: LESS 4 FT CORD

Type:

H

LTSRC16-37229

GLEON GALLEON LED

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 ⁴ 08=8 ⁴ 09=9 ⁵ 10=10 ⁵	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁶ 480=480V ^{6,7}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Gray BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁸ MA=Mast Arm Adapter ⁹ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹⁰ QMEA=Quick Mount Arm (Extended Length) ¹¹

Options (Add as Suffix)

7030=70 CRI 3000K¹²
8030=80 CRI 3000K¹³
7050=70 CRI 5000K¹²
7060=70 CRI 6000K¹²
600=Drive Current Factory Set to Nominal 600mA¹⁴
800=Drive Current Factory Set to Nominal 800mA¹⁴
1200=Drive Current Factory Set to Nominal 1200mA^{14,15}
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)
2L=Two Circuits^{16,17}
DIM=External 0-10V Dimming Leads
P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Volatage)
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
R=NEMA Twistlock Photocontrol Receptacle
AHD145=After Hours Dim, 5 Hours¹⁸
AHD245=After Hours Dim, 6 Hours¹⁸
AHD255=After Hours Dim, 7 Hours¹⁸
AHD355=After Hours Dim, 8 Hours¹⁸
HA=50°C High Ambient¹⁹
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{20,21}
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{20,22}
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{20,23}
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{20,24}
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{20,21,25}
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{20,22,25}
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{20,23,25}
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{20,24,25}
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{20,21}
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{20,22}
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{20,23}
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{20,24}
LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height²⁶
LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height²⁶
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing²⁷
HSS=Factory Installed House Side Shield²⁸
CE=CE Marking²⁹

Accessories (Order Separately)

OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁰
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
GLEON-QM=Quick Mount Arm Kit
GLEON-QMEA=Quick Mount Extended Arm Kit
LS/HSS=Field Installed House Side Shield^{28,30}

NOTES:

1. 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.

2. DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

3. Standard 4000K CCT and minimum 70 CRI.

4. Not compatible with extended quick mount arm (QMEA).

5. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).

6. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.

7. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).

8. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.

9. Factory installed.

10. Maximum 8 light squares.

11. Maximum 6 light squares.

12. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

14. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.

15. Not available with HA option.

16. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.

17. Not available with LumaWatt wireless sensors.

18. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.

19. 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.

20. 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 Eaton for more information.

21. Approximately 22" detection diameter at 8' mounting height.

22. Approximately 40" detection diameter at 20' mounting height.

23. Approximately 60" detection diameter at 40' mounting height.

24. Approximately 100" detection diameter at 40' mounting height.

25. Replace X with number of Light Squares operating in low output mode.

26. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.

27. Not available with house side shield (HSS).

28. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.

29. CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.

30. One required for each Light Square.

EATON

Powering Business Worldwide

Eaton

1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD500020EN

2016-09-28 15:31:55

SURE-LITES

DESCRIPTION

PathLinx LED emergency light is aesthetically designed and offers features to reduce egress system cost. The thin profile emergency light unit blends into the environment with expanded egress light spacing between units, which provides a cost effective and unobtrusive emergency egress system. The expanded remote capability with wide coverage pattern and RJ45 connectors allows installers to reduce their cost of equipment, materials, and labor. The external battery disconnect and easy connection features make the PathLinx LED emergency light uncomplicated and efficient throughout installation.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES
Electrical

- Dual Voltage Input 120/277 VAC, 60Hz
- External Battery Disconnect
- Brownout circuit
- Low voltage disconnect
- Overload / Short Circuit protection
- 4.8V Battery back-up
- 1.4W AccuLED optics

Housing Construction

- Components injection molded, color stable, high impact thermoplastic
- White or black textured finish
- Snap-fit construction to facilitate fast installation
- Suitable for wall mount applications
- Universal J-box mounting pattern
- Keyhole mounting slots
- Aesthetically designed with thin profile

Battery

- Sealed Nickel Cadmium
- Sealed Nickel Metal Hydride (LEM4 Only)
- Full Recharge Time, 24 hours (max.)
- 0° to 40°C (32° to 104°F) operating temperature range

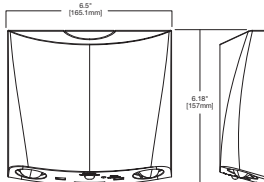
Warranty

- Five-year warranty

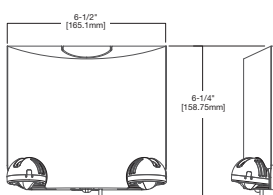
Code Compliance

- UL924 Listed
- Damp Location
- Life Safety NFPA 101
- NEC/OSHA
- Most State & Local Codes
- 0° to 40°C (32° to 104°F) operating temperature range

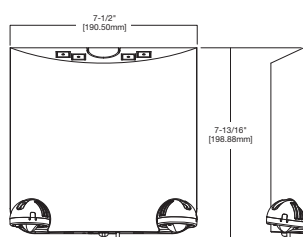
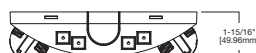
LEMRO



LEM



LEM2 / LEM4


ORDERING INFORMATION
SAMPLE NUMBER: LEM4SD

Emergency Light	Color	Option
LEM=Two head unit; No remote capability	[Blank]=White	SD=Eagle Eye Self Diagnostic*
LEM2=Two head unit; Two head remote capability	BK=Black	
LEM4=Two head unit; Four head remote capability		

SAMPLE NUMBER: LEMRO

Emergency Light	Color
LEMRO=Two head unit; No remote capability	[Blank]=White

* Self Diagnostic option unit comes with Time Delay capability by following installation instructions.

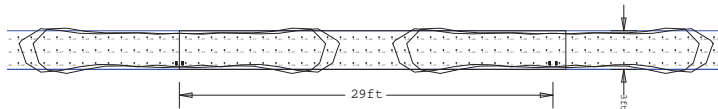
**LEMRO****LEM****LEM2 / LEM4**

PathLinx LED Emergency Light LEM

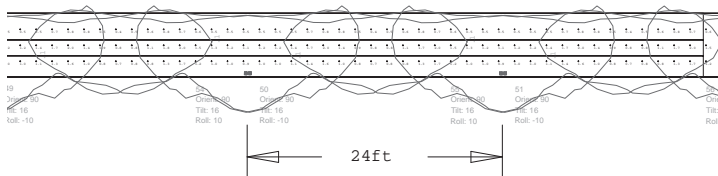
LED Emergency Light
AccuLED Optic
EZ Click - RJ45 connection
Eagle Eye Self Diagnostics

PathLinx LED Emergency Light
LEMRO
LEM
LEM2/LEM4
ELECTRICAL DATA

Model	120V			277V		
	Power (W)	Current (A)	PF	Power (W)	Current (A)	PF
LEM	0.52	0.069	0.06	0.64	0.07	0.03
LEMSD	0.534	0.067	0.07	0.67	0.069	0.04
LEM2	0.92	0.146	0.05	1.02	0.138	0.03
LEM2SD	1.12	0.145	0.06	1.19	0.137	0.03
LEM4	1.71	0.25	0.06	1.62	0.213	0.03
LEM4SD	1.96	0.25	0.07	1.81	0.21	0.03
LEMRO	.58	.076	.064	.79	.077	.037


PHOTOMETRY**LEM/LEM2/LEM4**


X	Y	Z	Orient	Tilt	Roll
-0.25	0.5	7.5	90	7	1
0.25	0.5	7.5	90	7	-1
28.75	0.5	7.5	90	7	1
29.25	0.5	7.5	90	7	-1
57.75	0.5	7.5	90	7	1
58.25	0.5	7.5	90	7	-1
-29.25	0.5	7.5	90	7	1
-28.75	0.5	7.5	90	7	-1

LEMRO

X	Y	Z
0	0.33	7.5
0.33	0.33	7.5
24.33	0.324	7.5
48.33	0.317	7.5
72.33	0.311	7.5
96.33	0.305	7.5
24	0.323	7.5
48	0.316	7.5
72	0.309	7.5
96	0.302	7.5

***The "Rule of Thumb" spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 9 foot ceiling with a 6 foot wide walkway and 3 foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 7.5 feet. Cooper Lighting assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not as guarantee of any code compliance.

Submitted by Lighting Solutions		Catalog Number:	Type:
	Job Name:	LEM2BKSD	<div>E</div>
	JAMES T VAUGHN CORR CTR	Notes:	
			LTSRC16-37229
<div>PathLinx LED Emergency Light</div> <div>LEMRO</div> <div>LEM</div> <div>LEM2/LEM4</div>			
TECHNICAL DATA			
<div> <div> AccuLED Optics The AccuLED precision engineered optics display sharp cutoffs and oval light pattern, which provide a clear path of egress per UL924 standards. The efficient optical design increases spacing distance between units, while providing evenly diffused light pattern throughout the egress path for both 1 foot candle average and 0.1 ft candle minimum. The lens swivel feature within the AccuLED optic provides the opportunity of forward-throw of egress lighting. The LED emergency head rotates 348° and tilts 104° and the AccuLED optic has a full 360° of rotation to provide optimal flexibility. </div> <div> Mechanical Housing All components are injection molded with a color stable, high impact thermoplastic resin. The surface is textured to improve aesthetic appearance. The housing construction is designed with snap-fit components and reinforcement ribs to provide maximum strength at minimum installation effort. The mounting hole pattern is universal to junction box requirements and is suitable for both wall and ceiling mount applications. </div> <div> EZ – Click – Ethernet Connection The EZ Click Ethernet connection provides an opportunity to reduce the cost of labor and materials by utilizing an internal power connection. The EZ Click allows low voltage DC to be run to remotes and provides and opportunity to avoid the labor and expense associated with conduit and junction box infrastructure. The PathLinx line of remotes can be connected in series via low voltage DC. </div> <div> EZ Key – External Power Disconnect The EZ Key is an external power disconnect. The patent-pending EZ Key technology allows installers to externally control the battery connection, which is better than line-latching because it allows installers to choose when the battery is connected to avoid battery damage during a construction cycle. </div> <div> EZ Hang – Mounting Feature The hands-free EZ Hang feature allows the installer to hang the emergency light face from the back plate in order to easily and efficiently make the power connections. </div> <div> Eagle Eye™ Self Diagnostics The Eagle Eye self-diagnostic software will automatically perform all tests required by UL924, and NFPA101. The system indicates the status of the emergency light at all times using the LED indicator. A 90 minute battery power (emergency mode) simulation test will occur once every 12 months. A 30 second battery power simulation test will occur every 30 days. The Solid-State microprocessor based system has the ability to accurately detect and warn of system failures, plus it incorporates all of the standard electronic features that sets Sure-Lites apart from its competition. Eagle Eye self diagnostic software automatically performs all testing required by the NFPA 101 Life Safety Code and systematically calibrates itself in the field, reducing installation labor and eliminating manual calibration errors. </div> <div> Expanded Remote Capability The PathLinx product line has expanded remote capability up to four additional LED Emergency Light heads. The expanded remote capability reduces the overall cost of installation. A dual head remote emergency light can cost up to 60% less than a corresponding dual head emergency light with battery back-up. The PathLinx product line utilizes efficient long-life AccuLED optics that exceed the lumen output of the traditional 5.4 watt incandescent heads, while meeting the UL924 standards for egress lighting. Low power consumption means expanded remote capability and significant cost savings. </div> <div> Low Voltage Disconnect When the battery's terminal voltage falls, the low-voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored preventing deep battery discharge. </div> <div> Brownout Circuit The brownout circuit on the PathLinx emergency light monitors the flow of AC current to the unit and activates the emergency light heads when a predetermined reduction of AC power occurs. </div> <div> Warranty PathLinx units are backed by a five-year warranty on the fixtures and a fifteen-year pro-rata warranty on the NiCad batteries. </div> </div>			
<div> <div>  </div> <div> <div>Eaton</div> <div>1000 Eaton Boulevard</div> <div>Cleveland, OH 44122</div> <div>United States</div> <div>Eaton.com</div> </div> <div> <div>Eaton's Cooper Lighting Business</div> <div>1121 Highway 74 South</div> <div>Peachtree City, GA 30269</div> <div>P: 770-486-4800</div> <div>www.cooperlighting.com</div> </div> <div> <div>Specifications and dimensions subject to change without notice.</div> </div> <div> <div>ADX121572</div> <div>February 10, 2014 1:22 PM</div> </div> </div>			

Submitted by Lighting Solutions		Catalog Number:	Type:
 lightingsolutionsinc.net	Job Name:	LEM2BKSD	E
	JAMES T VAUGHN CORR CTR	Notes:	

PathLinx LED Emergency Light
LEMRO
LEM
LEM2/LEM4

SELF DIAGNOSTIC TESTING OPERATIONS

The Sure-Lites Eagle Eye Self Diagnostics is continuously monitoring your emergency fixture, and will signal any failure through the 3 color indicator LED.

Initial Operation:
When the unit is first powered up, it will go into a 24 hour fast charge, indicated by the indicator LED pulsing green. Once the unit has fully charged, it will perform a self calibration, after which the LED will change to steady green, indicating the unit is fully charged and float charging the battery to maintain readiness.

Automatic Testing:
The unit will perform a battery capacity, lamp/LED, and charge circuit test every 30 days for 30 seconds. During this time, the indicator LED will change to a steady yellow. It will perform a full battery capacity (90 minute) test once per year. During this time, the indicator LED will change to a blinking yellow.

Manual Testing:

- 10 Second "Installation" test – Press and release the test button once during fast charge (blinking green) to initiate a 10 second quick test. The sign will switch to emergency mode for 10 seconds allowing the installer to verify proper installation of the unit, and the LED indicator will turn solid yellow.
- 30 Second Test - Press and release the test button once during float charge (steady green). The indicator LED will turn steady yellow to indicate the unit is performing a 30 second test of the batteries and lamps/LEDs.
- 90 Minute Test - Press and release the test button a second time during a 30 second test (steady yellow) to change to a 90 minute test. During this test, the LED indicator will change to blinking yellow, and the circuit will perform a full battery capacity, charge circuit, and LED test.
- Canceling Test – Press and release the test button during the 90 minute test (flashing yellow) to return the fixture to its original state (fast charge or float charge)

Laser Test:
The LEM SD products are equipped with a Laser Test function, that allows the unit to be manually tested without the need to physically press the test button. Shining a laser pointer in the hole marked "LASER TEST" on the bottom of the unit has the same effect as a press and release of the test button.

Clearing Failure Codes:


- A battery failure (LED two blink red) can be cleared by replacing the battery. Disconnecting the battery and AC power, or performing a full 90 minute discharge, will reset the error code, however, it will return if the battery is faulty
- Charge Circuit (LED three blink red) and lamp/LED failure (LED four blink red) will clear when the unit successfully passes a manual or automatic 30 second test.

Indicators:

- LED Off - No power to unit, emergency mode.
- LED Steady Green - Unit is fully charged and is float charging the battery to maintain readiness.
- LED Green Pulse - Unit is in a 24 hour fast charge of the battery.
- LED Two Blink Red - Battery has failed a capacity test, or the battery is disconnected. See "Clearing Failure Codes" above.
- LED Three Blink Red - Battery charge circuit has failed. See "Clearing Failure Codes" above.
- LED Four Blink Red - Lamps have burned out, or on an EXIT/Combo, 50% or more of the LEDs have failed. See "Clearing Failure Codes" above.
- LED Steady Yellow - 30 second test or 10 second quick test (Fast Charge only).
- LED Blinking Yellow - 90 minute test.

Maintenance:
None required. Replace the batteries as needed according to ambient conditions. However, we recommend that the equipment be tested regularly in accordance with local codes.

SURE-LITES



○

OFF - EMERGENCY
MODE / POWER OFF

●

STEADY BLINK
GREEN - FAST
CHARGE

●

STEADY GREEN -
FULL / FLOAT
CHARGE

●

STEADY YELLOW -
QUICK TEST

●

STEADY BLINK YELLOW
- 90 MINUTE TEST

●●

2 BLINK RED -
BATTERY FAILURE

●●●

3 BLINK RED - CHARGE
CIRCUIT FAILURE

●●●●

4 BLINK RED - LAMP/
LED FAILURE

Cooper Lighting

by Eaton

Eaton


1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business

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

Specifications and
dimensions subject to
change without notice.

ADX121572
February 10, 2014 1:22 PM

Submitted by Lighting Solutions		Catalog Number:	Type:
	Job Name:	WG10	<div style="font-size: 2em; font-weight: bold; text-align: center;">E</div>
	JAMES T VAUGHN CORR CTR	Notes:	

COOPER LIGHTING - SURE-LITES®

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

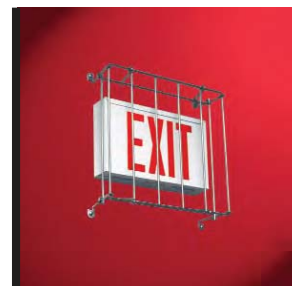
Construction

- All metal wire guard for exits or emergency units
- 0.177" (5mm) diameter 7 gauge steel round wire
- Non-reflective silver finish

- Hinged sides hook in place (except WGS-11 and WGS-20 which is not hinged)
- Screw eyes provided for mounting

Warranty

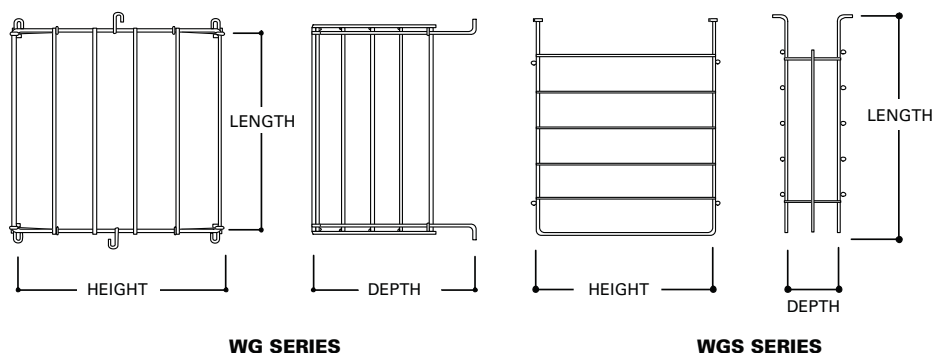
1 year



WIRE GUARDS

FIELD INSTALLED
ACCESSORIES

EMERGENCY LIGHTING &
EXIT LIGHTING



ORDERING INFORMATION

Catalog No.	Length	Height	Depth	For use with
WG1	18" (457mm)	15" (381mm)	6" (152mm)	CC, CU-2, LM1, ST-1, AA, XR, UX (Single face, surface mount, wall)
WG2	18" (457mm)	15" 381mm)	10" (254mm)	CCX and UNH (with heads), UX (Double face)
WG3	23" (584mm)	20" (508mm)	12" (305mm)	HR180, HR12170, HR12210, HR12360, NCB45, NCB90, NCB110, NCB1290, NCB12180 Series
WG4	32" (812mm)	21" (533mm)	12" (305mm)	NCB12225 Series
WG7	16" (406mm)	16" (406mm)	9" (229mm)	P4C, RLM, RD, R4C, HR87, HR117, HR12117, UMB
WG8	8" (203mm)	8" (203mm)	8" (203mm)	Single Head Remotes
WG9	16" (406mm)	8" (203mm)	8" (203mm)	Double Head Remotes,
WG10	13 3/4" (349mm)	13 3/8" (340mm)	4 3/8" (111mm)	CX, EP, EPH, UNH, SLX, LPX, CAX-LED Series (Surface Mount Only)
WGS11	13 5/8" (346mm)	16 3/4" (425mm)	4" (102mm)	CX, EP, EPH, UNH, CCX, SLX, LPX, CAX Series, (End or Ceiling Mount only); UX (Single face, end or ceiling mount)
WG12	27 1/2" (698mm)	14" (356mm)	8" (203mm)	GC Series, LPX (with heads)
WG17	27 1/2" (698mm)	12" (305mm)	14 1/2" (368mm)	GC Series
WG19	21" (533mm)	15" (381mm)	6" (152mm)	CU-1 Series
WGS20	9" (229mm)	14" (356mm)	5" (127mm)	SLX, LPX, CX Non DH only (ceiling mount only)

TOTALLY PREDICTABLE
RELIABILITY.

DESCRIPTION

PathLinx LED emergency light remotes are aesthetically designed and offer features to reduce egress system cost. The inconspicuous round design blends into the environment while providing expanded egress light spacing between remote units. The expanded remote capability from the LEM2 or LEM4 base unit in conjunction with wide coverage pattern enable installers to reduce their cost of equipment, materials, and labor. The easy RJ45 connection features make the PathLinx LED emergency light remote units uncomplicated and efficient throughout installation.

Sure-Lites

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Electrical

- 4.8V DC input voltage, with optional 6V DC input voltage products.
- 1.4W AccuLED optics (1.8W per 6V input)

Housing Construction

- Components injection molded, color stable, high impact thermoplastic
- White or black textured finish

- Snap-fit construction to facilitate fast installation
- Suitable for wall or ceiling mount applications
- Universal J-box mounting pattern
- Keyhole mounting slots
- Aesthetically designed with thin profile

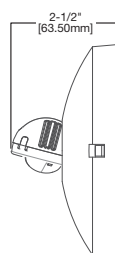
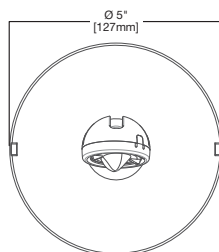
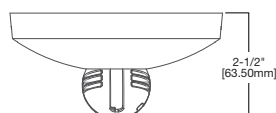
Code Compliance

- UL924 Listed
- UL Damp Location
- Wet Location Listed (LEMWR)
- Life Safety NFPA 101
- NEC/OSHA
- Most State & Local Codes
- -30°C to 50°C (-22°F to 122°F) operating temperature range

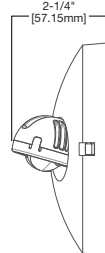
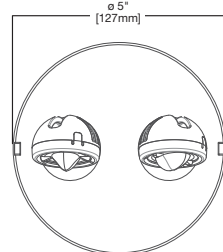
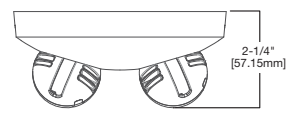
Warranty

- Five-year warranty

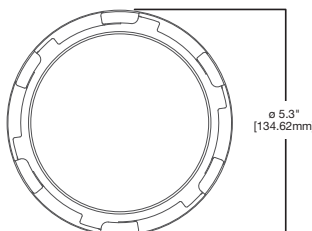
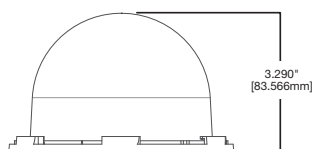
Single Head Remote



Double Head Remote



Wet Location Remote



ORDERING INFORMATION

SAMPLE NUMBER: LEMR2

Emergency Light	Color
LEM1=Single Head; Damp Location	[Blank]=White
LEM2=Double Head; Damp Location	BK=Black
LEMWR1=Single Head; Wet Location	
LEMWR2=Double Head; Wet Location	
6LEM85=6V; Single Head; Damp Location; No Ethernet	
6LEM85D=6V; Double Head; Damp Location; No Ethernet	
6LEM85W=6V; Single Head; Wet Location; No Ethernet	
6LEM85DW=6V; Double Head; Wet Location; No Ethernet	



LEM1



LEM2



LEMWR1



LEMWR2

PATHLINX LED EMERGENCY LIGHT LEM REMOTES

LED EMERGENCY LIGHT

ACCUCLED OPTIC

EZ CLICK
RJ45 CONNECTION

Submitted by Lighting Solutions		Catalog Number: LEMR2BK	Type: E
	Job Name: JAMES T VAUGHN CORR CTR	Notes: CONFIRM FINISH	
		LTSRC16-37229	

PATHLINX LED EMERGENCY LIGHT
LEM REMOTES

TECHNICAL DATA

AccuLED Optics
 The AccuLED precision engineered optics display sharp cutoffs and highly directional light pattern, which provide a clear path of egress per UL924 standards. The efficient optical design increases spacing distance between units, while providing evenly diffused light pattern throughout the egress path for both 1 foot candle average and 0.1 ft candle minimum. The lens swivel feature within the AccuLED optic provides the opportunity of forward-throw of egress lighting. The LED emergency head rotates 348° and tilts 104° and the AccuLED optic has a full 360° of rotation to provide optimal flexibility.

Mechanical Housing
 All components are injection molded with a color stable, high impact thermoplastic resin. The surface is textured to improve aesthetic appearance. The housing construction is designed with snap-fit components to provide maximum strength at minimum installation effort. The mounting hole pattern is universal to junction box requirements and is suitable for both wall and ceiling mount applications.

EZ Click - Ethernet Connection
 The EZ Click Ethernet connection provides an opportunity to reduce the cost of labor and materials by utilizing an internal power connection. The PathLinx line of remotes can be connected in series via low voltage DC an internal power connection. The EZ Click allows low voltage DC to be run to remotes and provides an opportunity to avoid the labor and expense associated with conduit and junction box infrastructure. The PathLinx line of remotes can be connected in series via low voltage DC.

Expanded Remote Capability
 The PathLinx product line has expanded remote capability up to four additional LED Emergency Light heads. The expanded remote capability reduces the overall cost of installation. A dual head remote emergency light can cost up to 60% less than a corresponding dual head emergency light with battery back-up. The PathLinx product line utilizes efficient long-life AccuLED optics that exceed the lumen output of the traditional 5.4 watt incandescent heads, while meeting the UL924 standards for egress lighting. Low power consumption means expanded remote capability and significant cost savings.

Warranty
 PathLinx units are backed by a five-year warranty.



Eaton
 1121 Highway 74 South
 Peachtree City, GA 30269
 P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

DESCRIPTION

The Sure-Lites UX Nema 4X Exit combines the strength and durability of die cast aluminum with architecturally pleasing aesthetics. Designed for the most severe environments, the UX exit will provide maximum performance against rain, moisture, cold, corrosives and dust. Additional designed in features such as LED technology provides the customer with a long-life, low maintenance, dependable exit sign in those conditions when reliability is crucial. The injection molded, clear, polycarbonate provides protection against vandalism. The UX Exit is approved for ambient environments rated from -45C (-49F) up to +60C (+140F). Self diagnostics are not available for AC only units.

SPECIFICATION FEATURES

Electrical

- Dual Voltage Input 120/277 VAC, 60 Hz, Isolation Transformer
- Push-in AC power connectors facilitate installation

Housing Construction

- Die cast aluminum housing
- Die cast canopy included (for mounting convenience only - no electrical components in canopy)
- Universal pattern knockouts on rear of single face housing for direct mounting to junction box
- Exit can be universally mounted ceiling, wall or end
- Pendant Mount
- Painted finish
- NFPA 101 compliant knockout chevrons allow quick conversion to directional signs
- UV stable clear, polycarbonate, vandal resistant shield with Torx® head tamperproof screws, stainless steel

- Knockouts provided for 1/2" conduit entry - Exit back plate can be removed and exit converted to double face exit
- T-Code=T5 (HAZ only)

Lamp Data

- LED lamp provides uniform light output
- Red or green lettering only
- Extremely economical lamp operation

Code Compliance

- UL 924 Listed
- UL 924, Wet Location Listed (suitable for wet and damp locations)
- UL50, NEMA 4X
- UL844, Hazardous Locations (Class 1, Division 2, Groups A, B, C, D) with "HAZ" option
- Life Safety NFPA 101
- NEC/OSHA
- UL FTBR Listed when specified with the "2C" option
- Most State and Local Codes

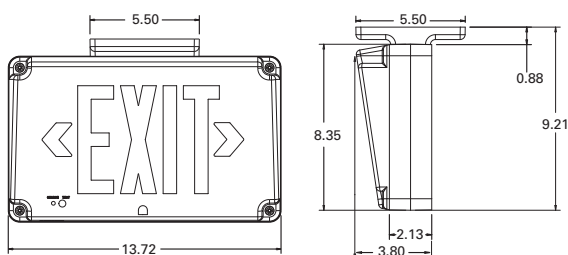
- Suitable for Floor Proximity Installation, UL Listed, ADA (American Disabilities Act)
- NSF, National Sanitation Foundation / Splash Zone (for Food Processing)
- IP66, Ingress Protection from IEC (International Electrical Commission)
- Cleanrooms Class 10,000
- Patents Pending

Warranty

- Exit: 5-year

Temperature Performance Data

- UX Series Exit Sign:
- -45°C (-49°F) to 60°C (140°F)
- UX-HAZ Hazardous Location Exit Sign:
- T6 rating at 45°C (113°F)
- T5 rating at 60°C (140°F)



ORDERING INFORMATION

SAMPLE NUMBER: UX60R

Series	Face Options	Factory Options	Letter Colors	Housing Finish
UX6=Nema 4X Exit, AC Only, LED	0=Universal 1=Single	95=AC Only Fire Alarm Interface	R=Red G=Green	S=Silver WH=White BK=Black
Options	Accessories ²			
2C=Two Circuit Operation HAZ=Hazardous Location (Class 1, Division 2, Groups A, B, C, D)	UXUK=Converts Single Face to Double Face Exit. Contains (1) Red Lens, (1) Green Lens, (1) Standard Silver Exit Stencil, (1) Vandal Shield w/ Tamperproof Screws UXUKWH=Converts Single Face to Double Face Exit. Contains (1) Red Lens, (1) Green Lens, (1) White Exit Stencil, (1) Vandal Shield w/ Tamperproof Screw.			
	UXPKA=Converts Single Face to Double Face Exit. Contains (1) Red Lens, (1) Green Lens, (1) Black Exit Stencil, (1) Vandal Shield w/ Tamperproof Screw. UXPKA= Pendant Adapter Kit (fitting adapts exit to 1/2" NPT threaded pendant-supplied by others) VRSD=Vandal Resistant Screwdriver			

Notes: 1. Contains one single face exit and one UXUK. 2. Order Separately.

Sure-Lites

Catalog #	Type
Project	
Comments	Date
Prepared by	



UX SERIES



ULTIMATE EXIT
NEMA 4X
OPTL: CLASS 1 DIV 2 HAZARDOUS LOCATION
PENDANT AND SURFACE MOUNT
AC ONLY
LED LAMPS
VANDAL PROOF
PATENTS PENDING
EXIT LIGHTING



SPLASH ZONE

ENERGY DATA

LED Exits - Red	LED Exits - Green
Input Power: 120V = 2.7W 277V = 3.2W	Input Power: 120V = 2.3W 277V = 3.0W
Input Current (Max.): 120V = .07A 277V = .04A	Input Current (Max.): 120V = .08A 277V = .03A
Power Factor: 120V = >.30 277V = >.39	Power Factor: 120V = >.26 277V = >.36
T.H.D.: 120V = <56% 277V = <69%	T.H.D.: 120V = <54% 277V = <67%

Submitted by Lighting Solutions		Catalog Number: UX6095RBK / UXUKBK / UXPKA	Type: X						
 lightingsolutionsinc.net	Job Name: JAMES T VAUGHN CORR CTR	Notes:							
<div style="text-align: right;">UX SERIES</div>									
TECHNICAL DATA									
<div> <div> Lamps The UX Family with energy saving LED lamps offers extremely long-life with very low input wattage. LED lamps are available in either red or green. LED lamps have a long life, eliminating the need for any lamp maintenance under normal conditions. </div> <div> Housing Die cast aluminum with silver painted finish. NFPA 101 compliant knockout chevrons for easy conversion to directional sign. Universal pattern knockouts are in the back of the single face housing for direct mounting to junction box. Conduit entry knockouts provided. UV stable, polycarbonate shield for protection. Gasketing provides water-tight, dust-tight NEMA 4X enclosure. </div> <div> Canopy Die cast aluminum alloy canopy included for universal mounting. Canopy is included for mounting convenience only--no electrical components in canopy. </div> <div> Electronics Dual voltage input 120/277 VAC is standard. All electrical components are enclosed within the exit housing, preserving the low profile appearance. </div> <div> "2C" Option The UX Series Exit's "2C" Option enables the UX Exit to operate per the requirements of UL 924 when connected simultaneously to both normal and emergency power circuits (two circuit operation--UL Category FTBR - Emergency Lighting and Power Equipment). </div> <div> The "2C" Option is a factory assembly change which alters the standard UX Series Exit such that it complies with and is UL Listed under the FTBR Category. This option should only be used for exits which are intended to be connected simultaneously to normal and emergency power circuits. Both circuits have universal 120/277 VAC standard. </div> <div> Warranty The Sure-Lites UX Exit is backed by a firm (5) year warranty against defects in material and workmanship. </div> </div>									
NATIONAL ELECTRICAL CODE (NEC)									
<div> <div> The National Electrical Code (NEC) defines a hazardous location as "a location where fire hazards or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust or ignitable fibers or filings. </div> <div> The Code further separates these hazardous locations into three classes: Class I - locations containing gases and vapors Class II - locations containing dust Class III - locations containing fibers and filings. </div> <div> Each of these classes is broken into divisions. These divisions are separated into groups according to characteristics. The UXHAZ Exit Sign Series is rated for Class 1, Division 2, Groups A, B, C, D only. </div> </div>									
<p>The following chart summarizes these classifications:</p> <table border="1"> <thead> <tr> <th>Class</th> <th>Division</th> <th>Group</th> </tr> </thead> <tbody> <tr> <td>I Gas</td> <td>2 Potential Exists - May be present in atmosphere</td> <td> A Acetylene B Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value less than or equal to 0.45 mm or a minimum igniting current ratio (MIC ratio) less than or equal to 0.40. (Example material is hydrogen) C Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.45 mm and less than or equal to 0.75 mm, or a minimum igniting current ratio (MIC ratio) greater than 0.40 and less than or equal to 0.80. (Example material is ethylene) D Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.75 mm or a minimum igniting current ratio (MIC ratio) greater than 0.80. (Example material is propane) </td> </tr> </tbody> </table>				Class	Division	Group	I Gas	2 Potential Exists - May be present in atmosphere	A Acetylene B Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value less than or equal to 0.45 mm or a minimum igniting current ratio (MIC ratio) less than or equal to 0.40. (Example material is hydrogen) C Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.45 mm and less than or equal to 0.75 mm, or a minimum igniting current ratio (MIC ratio) greater than 0.40 and less than or equal to 0.80. (Example material is ethylene) D Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.75 mm or a minimum igniting current ratio (MIC ratio) greater than 0.80. (Example material is propane)
Class	Division	Group							
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<div>  <div> Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting </div> <div> Specifications and dimensions subject to change without notice. </div> </div>									

DESCRIPTION

The Sure-Lites UX Nema 4X Exit combines the strength and durability of die cast aluminum with architecturally pleasing aesthetics. Designed for the most severe environments, the UX exit will provide maximum performance against rain, moisture, cold, corrosives and dust. Additional designed in features such as LED technology provides the customer with a long-life, low maintenance, dependable exit sign in those conditions when reliability is crucial. The injection molded, clear, polycarbonate provides protection against vandalism. The UX Exit is approved for ambient environments rated from -45C (-49F) up to +60C (+140F). Self diagnostics are not available for AC only units.

Sure-Lites

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Electrical

- Dual Voltage Input 120/277 VAC, 60 Hz, Isolation Transformer
- Push-in AC power connectors facilitate installation

Housing Construction

- Die cast aluminum housing
- Die cast canopy included (for mounting convenience only - no electrical components in canopy)
- Universal pattern knockouts on rear of single face housing for direct mounting to junction box
- Exit can be universally mounted ceiling, wall or end
- Pendant Mount
- Painted finish
- NFPA 101 compliant knockout chevrons allow quick conversion to directional signs
- UV stable clear, polycarbonate, vandal resistant shield with Torx® head tamperproof screws, stainless steel

- Knockouts provided for 1/2" conduit entry - Exit back plate can be removed and exit converted to double face exit
- T-Code=T5 (HAZ only)

Lamp Data

- LED lamp provides uniform light output
- Red or green lettering only
- Extremely economical lamp operation

Code Compliance

- UL 924 Listed
- UL 924, Wet Location Listed (suitable for wet and damp locations)
- UL50, NEMA 4X
- UL844, Hazardous Locations (Class 1, Division 2, Groups A, B, C, D) with "HAZ" option
- Life Safety NFPA 101
- NEC/OSHA
- UL FTBR Listed when specified with the "2C" option
- Most State and Local Codes

- Suitable for Floor Proximity Installation, UL Listed, ADA (American Disabilities Act)
- NSF, National Sanitation Foundation / Splash Zone (for Food Processing)
- IP66, Ingress Protection from IEC (International Electrical Commission)
- Cleanrooms Class 10,000
- Patents Pending

Warranty

- Exit: 5-year

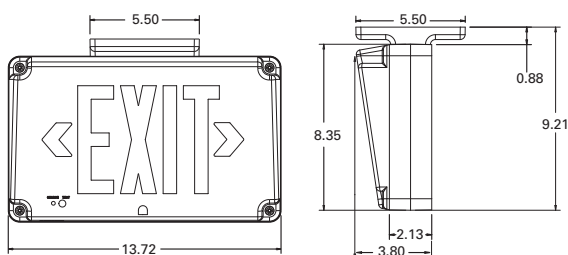
Temperature Performance Data

- UX Series Exit Sign:
 - -45°C (-49°F) to 60°C (140°F)
- UX-HAZ Hazardous Location Exit Sign:
 - T6 rating at 45°C (113°F)
 - T5 rating at 60°C (140°F)



UX SERIES

ULTIMATE EXIT
NEMA 4X
OPTL: CLASS 1 DIV 2 HAZARDOUS LOCATION
PENDANT AND SURFACE MOUNT
AC ONLY
LED LAMPS
VANDAL PROOF
PATENTS PENDING
EXIT LIGHTING



ORDERING INFORMATION



SAMPLE NUMBER: UX60R

Series	Face Options	Factory Options	Letter Colors	Housing Finish
UX6=Nema 4X Exit, AC Only, LED	0=Universal 1=Single	95=AC Only Fire Alarm Interface	R=Red G=Green	S=Silver WH=White BK=Black
Options	Accessories ²			
2C=Two Circuit Operation HAZ=Hazardous Location (Class 1, Division 2, Groups A, B, C, D)	UXUK=Converts Single Face to Double Face Exit. Contains (1) Red Lens, (1) Green Lens, (1) Standard Silver Exit Stencil, (1) Vandal Shield w/ Tamperproof Screws UXUKWH=Converts Single Face to Double Face Exit. Contains (1) Red Lens, (1) Green Lens, (1) White Exit Stencil, (1) Vandal Shield w/ Tamperproof Screw.			
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Notes: 1. Contains one single face exit and one UXUK. 2. Order Separately.

ENERGY DATA

LED Exits - Red	LED Exits - Green
Input Power: 120V = 2.7W 277V = 3.2W	Input Power: 120V = 2.3W 277V = 3.0W
Input Current (Max.): 120V = .07A 277V = .04A	Input Current (Max.): 120V = .08A 277V = .03A
Power Factor: 120V = >.30 277V = >.39	Power Factor: 120V = >.26 277V = >.36
T.H.D.: 120V = <56% 277V = <69%	T.H.D.: 120V = <54% 277V = <67%

Submitted by Lighting Solutions		Catalog Number:	Type:
 lightingsolutionsinc.net	Job Name:	UX6095RBK / UXUKBK / UXPKA	 LTSRC16-37229
	JAMES T VAUGHN CORR CTR	Notes:	

UX SERIES

TECHNICAL DATA

Lamps

The UX Family with energy saving LED lamps offers extremely long-life with very low input wattage. LED lamps are available in either red or green. LED lamps have a long life, eliminating the need for any lamp maintenance under normal conditions.

Housing

Die cast aluminum with silver painted finish. NFPA 101 compliant knockout chevrons for easy conversion to directional sign. Universal pattern knockouts are in the back of the single face housing for direct mounting to junction box. Conduit entry knockouts provided. UV stable, polycarbonate shield for protection. Gasketing provides water-tight, dust-tight NEMA 4X enclosure.

Canopy

Die cast aluminum alloy canopy included for universal mounting. Canopy is included for mounting convenience only--no electrical components in canopy.

Electronics

Dual voltage input 120/277 VAC is standard. All electrical components are enclosed within the exit housing, preserving the low profile appearance.

"2C" Option

The UX Series Exit's "2C" Option enables the UX Exit to operate per the requirements of UL 924 when connected simultaneously to both normal and emergency power circuits (two circuit operation--UL Category FTBR - Emergency Lighting and Power Equipment).

The "2C" Option

The "2C" Option is a factory assembly change which alters the standard UX Series Exit such that it complies with and is UL Listed under the FTBR Category. This option should only be used for exits which are intended to be connected simultaneously to normal and emergency power circuits. Both circuits have universal 120/277 VAC standard.

Warranty

The Sure-Lites UX Exit is backed by a firm (5) year warranty against defects in material and workmanship.

NATIONAL ELECTRICAL CODE (NEC)

The National Electrical Code (NEC) defines a hazardous location as "a location where fire hazards or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust or ignitable fibers or filings.

The Code further separates these hazardous locations into three classes:

Class I - locations containing gases and vapors

Class II - locations containing dust


Class III - locations containing fibers and filings.

Each of these classes is broken into divisions. These divisions are separated into groups according to characteristics.

The UXHAZ Exit Sign Series is rated for Class 1, Division 2, Groups A, B, C, D only.

The following chart summarizes these classifications:

Class	Division	Group
I Gas	2 Potential Exists - May be present in atmosphere	<p>A Acetylene</p> <p>B Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value less than or equal to 0.45 mm or a minimum igniting current ratio (MIC ratio) less than or equal to 0.40. (Example material is hydrogen)</p> <p>C Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.45 mm and less than or equal to 0.75 mm, or a minimum igniting current ratio (MIC ratio) greater than 0.40 and less than or equal to 0.80. (Example material is ethylene)</p> <p>D Flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either a maximum experimental safe gap (MESG) value greater than 0.75 mm or a minimum igniting current ratio (MIC ratio) greater than 0.80. (Example material is propane)</p>


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