

SM LED



APPLICATION

Specification grade fixture designed for high performance and maximum efficiency. It can be installed in rows either surface or stem mounted to provide excellent, energy efficient general lighting in commercial, retail and institutional environments.

FEATURES:

- Die formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.
- 100% acrylic, clear prismatic pattern #12 lens with nominal 0.100" thickness. Steel door frame allows easy lens replacement without tool.
- Unique door frame design delivers a premium extrude appearance.
- Door latches and hinges from either side.
- Standard door is without gasket flush steel with sturdy tee hinges and opposing, rotary action cam latches. Also available fully gasket door.
- Smooth edges for easy handing.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.
- Paint after fabrication.

MOUNTING:

- Pendant or surface mounting.
- End to end row mounting or single unit installation for both surface and stem mounting.
- 1'x4' fixture requires at least 2 stems for stem mounting. 2'x2', 2'x4' fixtures require at least 4 stems for stem mounting.
- Compatible with most ceiling types.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: > 80 Ra.
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- Generic : 0-10V 10% dim. (GR)
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).
- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Suitable for dry and damp locations.
- CEC Compliant EM (please contact for more information)
- ARRA compliant (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 7 or 10 years limited warranty. (optional)⁴
- 5 years limited warranty.
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	LED	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
SM LED	1' x 4'	36LED	39.33W	4361.57 lm	110.90 lm/W
		44LED	46.71W	5584.36 lm	119.55 lm/W
		54LED	57.33W	6404.25 lm	111.71 lm/W
		72LED	78.66W	9339.55 lm	118.73 lm/W
		108LED	114.66W	13713.58 lm	119.60 lm/W
	2' x 2'	27LED	29.76W	3598.15 lm	121.27 lm/W
		36LED	39.22W	4536.36 lm	115.66 lm/W
		44LED	46.84W	5384.59 lm	114.96 lm/W
		54LED	57.49W	6608.91 lm	114.96 lm/W
		72LED	78.44W	9072.71 lm	115.66 lm/W
	2' x 4'	108LED	114.98W	13216.80 lm	114.95 lm/W
		36LED	39.58W	4850.41 lm	122.55 lm/W
		44LED	47.08W	5798.86 lm	123.17 lm/W
		54LED	57.79W	7134.53 lm	123.46 lm/W
		72LED	75.50W	9238.20 lm	122.36 lm/W
		108LED	108.0W	13088.52 lm	121.19 lm/W

CCT	Multiplier		
	3000K	3500K	5000K
1X4	0.9502	0.9837	1.0173
2X2	0.9891	0.9951	1.0119
2X4	0.9809	0.9980	1.0030

OUTPUT CURRENT

		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

LED SURFACE MOUNT TROFFER

ORDERING INFORMATION

EXAMPLE: SM-24-36LED-40K-UNV-AB

MODEL	SIZE		LED		COLOR TEMP.		EFFICACY		CRI	
SM	14	1' x 4'	27LED	27W LED	-27K	2700K ⁸	(Blank)	Standard	(Blank)	80+ CRI
	22	2' x 2'	36LED	36W LED	-30K	3000K	HE	High Efficacy ^{10%}	C9	90+ CRI ⁹
	24	2' x 4'	44LED	44W LED	-35K	3500K				
			54LED	54W LED	-40K	4000K (Std.)				
			72LED	72W LED	-50K	5000K				
			108LED	108WLED						

TRIM TYPE			DIFFUSER			VOLTAGE		
(Blank)	Flush Steel, White	(Blank)	Pattern #12 Acrylic Lens 0.100" Thick			UNV	120-277V (Std.)	
SB	Flush Steel, Black	A12125	Pattern #12 Acrylic Lens 0.125" Thick			120	120V	
FB	Flush Aluminum, Black	P12125	Pattern #12 Polycarbonate Lens 0.125" Thick			277	277V	
FN	Flush Aluminum, Natural	A19	Pattern #19 Acrylic Lens 0.156" Thick			347	347V ²	
FW	Flush Aluminum, White	P1	5/8"x5/8"x7/16" Deep Specular Plastic Louver			480	480V ²	
RB	Regressed Aluminum, Black	P3	3/4"x3/4"x1/2" Deep Specular Plastic Louver ³					
RN	Regressed Aluminum, Natural	WA125	White Acrylic 0.125" Thick					
RW	Regressed Aluminum, White	FR	Frosted Acrylic Lens, Pattern#12, 0.100" thick					
AMB	Anti-Microbial Coating (Matte Skye White)	FR12	Frosted Acrylic Lens, Pattern#12, 0.125" thick					
		P5OL	3/4" x 3/4" x 3/8" Deep Specular Plastic Louver with overlay					

LED DRIVER			OPTIONS					
GR	Generic, 0-10V 10% dim (Std.) ⁷		AB	AB Switching				
DM1	Generic 0-10V 1% dim		EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12}				
SD40	40%/100% Bi-Level Step dim		EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12}				
SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)		EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12}				
TDM	Triac Dim. (120V only)		EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12}				
TD30/70	30% / 70% / 100% Tri-Level Step dim		ELCU-200	Fail-to-on Emergency lighting, UL924 ¹⁰				
TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)		GTD	Bodine Generator Transfer Device				
ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim		10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)				
EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)		GLR	Fast Blow Fuse ¹				
LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim		GMF	Slow Blow Fuse ¹				
ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)		SSH	Swivel Stem Hanger				
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.		DSH	Double Stem Hanger				
PHDL	Philips Xitanium DALI driver, Dim to 5%		AMS	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ¹⁶				
ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%		DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control) ¹⁴				
DMX	DMX512 control system (Only available with RGB+W option)		SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) ⁵				
DLM	Wattstopper's DLM interface (Only available with RGB+W option)		LSR-301-S	Setup Remote Control for DPMS				
LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)		LSR-301-P	Occupant Remote Control for DPMS				
BLT	Bluetooth Mesh System (contact factory for more information)		07W	Optional 7 Years Limited Warranty ⁴				
			010W	Optional 10 Years Limited Warranty ⁴				
			SLL	Spring-Loaded Latches ¹³				
			HC403	Microwave bi-level Occupancy Sensor, adjustable via DIP switch ¹⁵				
			ARRA	Assembled in USA for Buy American Act				
			BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant				
			TAA	Trade Agreements Act compliant				

LIGHTING CONTROL SYSTEM		
LUTRON VIVE	<u><Lutron Vive System Enabled></u>  Click Here!	
SNS200C RS-IR	<EasySense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ¹¹ IR dongle for EasySense control	
PPA102S	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)	
CASAMBI	Contact factory for CASAMBI READY options	

NOTES:

1. Must specify voltage, not available with 347V.
2. Supplied with step down transformer.
3. Not available in 1'x4'.
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
5. Dimming wires provided and connected to sensor only, not for dimmer switch. (available with AMS and DPMS option)
6. Contact factory for other emergency ballast options.
7. To find an approved dimmer switch, please see table 1.
8. Available with C9 only.

9. Lumen per watt is around 15% less than standard CRI (80+).

10. Shipped separately.

11. Please see Compatible Phone list in the separate attachment. If not listed, please order "RS-IR", and follow IR-Dongle user guide and NFC and IR app user's manual. Android users only.

12. Must specify voltage, not available with 347V or 480V.

13. RB, RN and RW door frames are not available with SLL option.

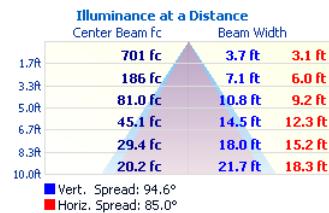
14. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.

15. See Table2 to find factory setting.

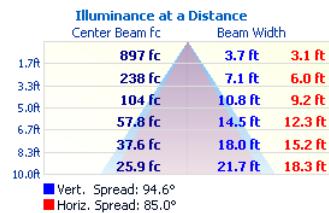
16. With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

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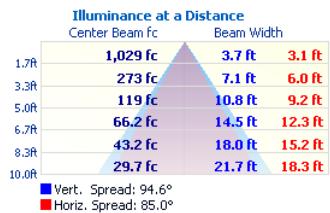
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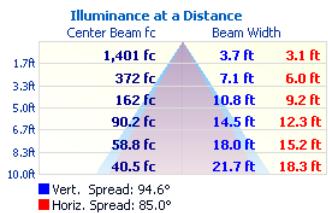
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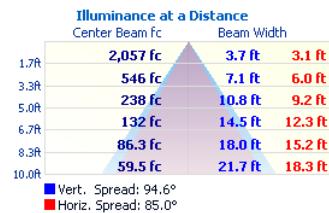
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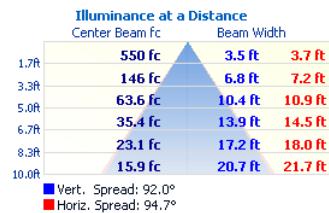
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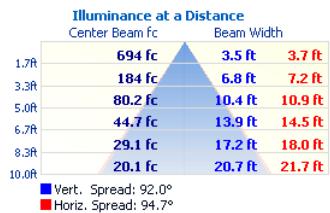
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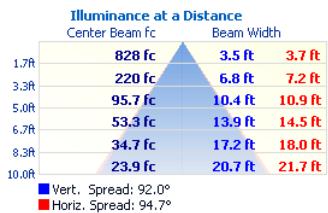
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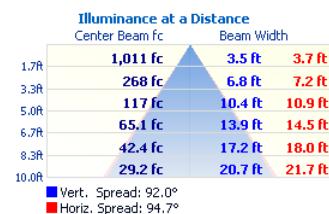
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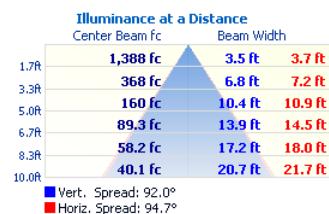
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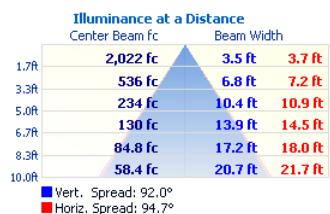
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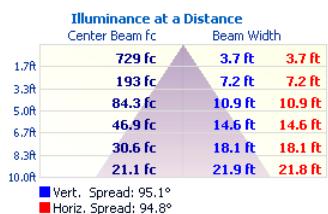
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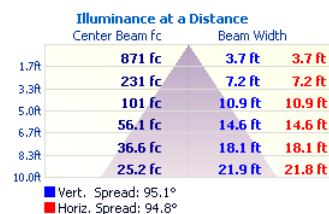
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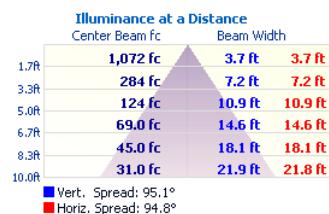
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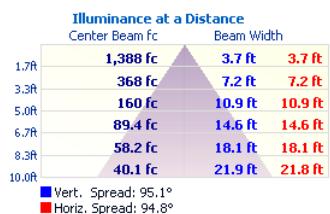
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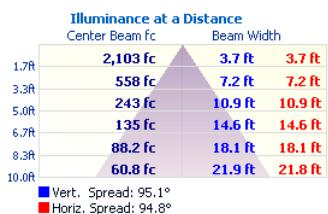
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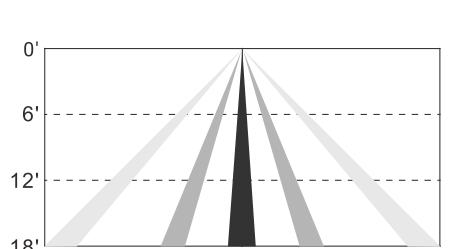
SM-24-2G-72LED



SM-24-2G-108LED

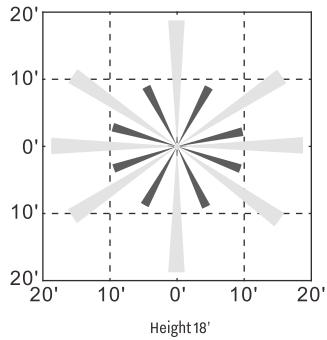


SIDE VIEW



AMS coverage pattern

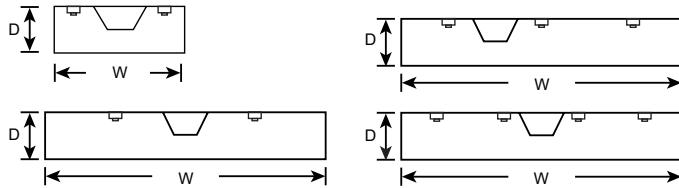
TOP VIEW



Height 18'

LED SURFACE MOUNT TROFFER

SM LED



Specifications: 1'x4'

Length: 48 (1218)
Width: 12 (304)
Depth: 3-7/8 (99)
Weight: 16.6 lbs (7.53 kg)

Specifications: 2'x2'

Length: 24 (608)
Width: 24 (608)
Depth: 3-7/8 (99)
Weight: 16.16 lbs (7.33 kg)

Specifications: 2'x4'

Length: 48 (1218)
Width: 24 (608)
Depth: 3-7/8 (99)
Weight: 26.3 lbs (11.93 kg)

All dimensions are in inches (millimeters).

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch
(Blank)	-	<Leviton> IllumaTech IP7 series <Lutron> Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver. <Philips> Sunrise : SR1200ZTUNV
		<Busch-Jaeger> 2112U-101 <Jung> 240-10 <Leviton> IllumaTech - IP710-DLX <Lightoller Controls> ZP600FAM120 <Merten> 5729 <Pass & Seymour> CD4FB-W <Wattstopper> DCLV1 <Sensor Switch> nIO EZ <Synergy> ISD BC <ABB> SD/S 2.16.1 <Lutron> Nova T: NTFTV Diva - DTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
ES566	eldoLED SOLOdrive	<Crestron> GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% EcoSystem	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO 1.2 Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ- E(wireless) QSGR- E Quantum Hub (120V only): QP2- 2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
TDM	KEYSTONE	<Lutron> Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW <Leviton> 6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron> MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron> Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:

1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.

For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.

2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.

HC403 FACTORY SETTING (TABLE 2)

Detection Area	100%
Hold-time	5 sec
Daylight sensor	Disable
Stand-by period (tri-level control)	10 sec
Stand-by dimming level	10%

* See a separate attachment to find more setting options.