

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 handling.
- 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' 22 2' x 2' 24 2' x 4'	27LED 27W LED 36LED 36W LED 44LED 44W LED 54LED 54W LED 72LED 72W LED 108LED 108WLED	-27K 2700K ⁸ -30K 3000K -35K 3500K -40K 4000K (Std.) -50K 5000K	(Blank) Standard HE High Efficacy 	(Blank) 80+ CRI C9 90+ CRI ⁹

TRIM TYPE	DIFFUSER	VOLTAGE
(Blank) Flush Steel, White SB Flush Steel, Black FB Flush Aluminum, Black FN Flush Aluminum, Natural FW Flush Aluminum, White RB Regressed Aluminum, Black RN Regressed Aluminum, Natural RW Regressed Aluminum, White AMB Anti-Microbial Coating (Matte Skye White)	(Blank) Pattern #12 Acrylic Lens 0.100" Thick A12125 Pattern #12 Acrylic Lens 0.125" Thick P12125 Pattern #12 Polycarbonate Lens 0.125" Thick A19 Pattern #19 Acrylic Lens 0.156" Thick P1 5/8"x5/8"x7/16" Deep Specular Plastic Louver P3 3/4"x3/4"x1/2" Deep Specular Plastic Louver ³ WA125 White Acrylic 0.125" Thick FR Frosted Acrylic Lens, Pattern#12, 0.100" thick FR12 Frosted Acrylic Lens, Pattern#12, 0.125" thick P50L 3/4" x 3/4" x 3/8" Deep Specular Plastic Louver with overlay	UNV 120-277V (Std.) 120 120V 277 277V 347 347V ² 480 480V ²

LED DRIVER	OPTIONS
GR Generic, 0-10V 10% dim (Std.) ⁷ DM1 Generic 0-10V 1% dim SD40 40%/100% Bi-Level Step dim SDXX XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) TDM Triac Dim. (120V only) TD30/70 30% / 70% / 100% Tri-Level Step dim TDXX/YY XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) ES566 eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim EC eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive) LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV ELV compatible (reverse-phase or trailing-edge), (120V only) PHSR Philips Xitanium Sensor-Ready, Dali 5%~100% dim. PHDL Philips Xitanium DALI driver, Dim to 5% ED560 eldoLED LightShape DALI dim to dark, 0.1% ~ 100% DMX DMX512 control system (Only available with RGB+W option) DLM Wattstopper's DLM interface (Only available with RGB+W option) LTEA2W Hi-lume 1% 2-wire LED driver (120V forward phase only)	AB AB Switching EMG8 1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12} EMG15 2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12} EMG20 3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12} EMG25 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 12} ELCU-200 Fail-to-on Emergency lighting, UL924 ¹⁰ GTD Bodine Generator Transfer Device GTD10DIM Bodine Generator Transfer Device (0-10VDC Dimmer Override) GLR Fast Blow Fuse ¹ GMF Slow Blow Fuse ¹ SSH Swivel Stem Hanger DSH Double Stem Hanger AMS Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ¹⁶ DPMS Daylight Dimming Photo Sensor (0-10 VDC Control) ¹⁴ SO Dimming Wires connected to Sensor Only (available option on FS-205 non-Blue-tooth AMS sensor only) ⁵ LSR-301-S Setup Remote Control for DPMS LSR-301-P Occupant Remote Control for DPMS O7W Optional 7 Years Limited Warranty ⁴ O10W 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
 BLT Bluetooth Mesh System (contact factory for more information)	

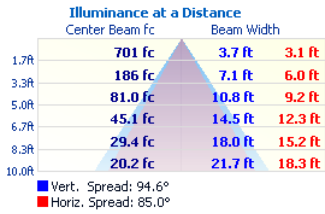
LIGHTING CONTROL SYSTEM	
LUTRON VIVE	<Lutron Vive System Enabled>  Click Here!
SNS200C RS-IR	<EasySense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ¹¹ IR dongle for EasySense control
PPA102S	<Bluetooth> Bluetooth Powerpack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

NOTES:

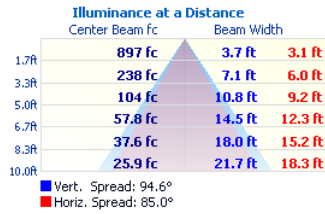
- Must specify voltage, not available with 347V.
- Supplied with step down transformer.
- Not available in 1'x4'
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
- Dimming wires provided and connected to sensor only, not for dimmer switch.
(available with AMS and DPMS option)
- Contact factory for other emergency ballast options.
- To find an approved dimmer switch, please see table 1.
- Available with C9 only.
- Lumen per watt is around 15% less than standard CRI (80+).
- Shipped separately.
- 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.
- Must specify voltage, not available with 347V or 480V.
- RB, RN and RW door frames are not available with SLL option.
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
- See Table2 to find factory setting.
- With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

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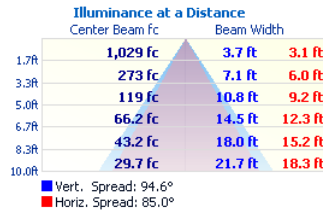
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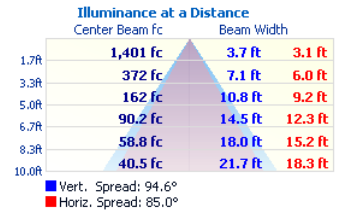
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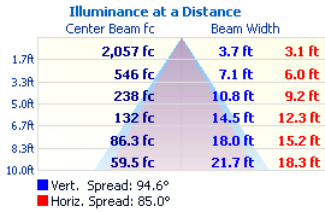
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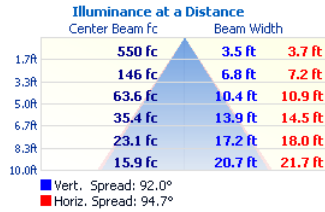
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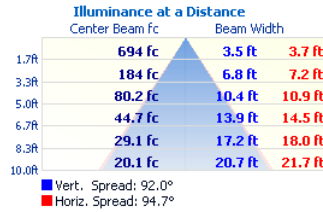
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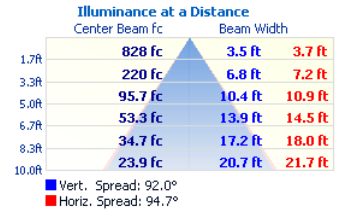
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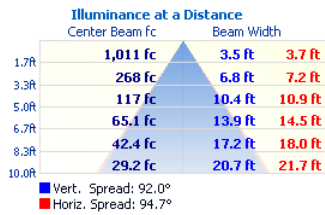
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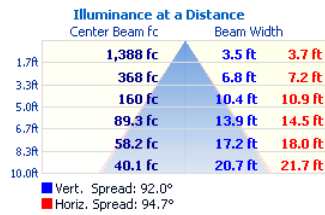
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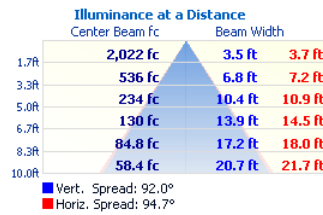
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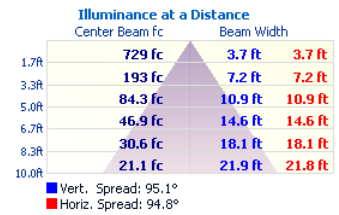
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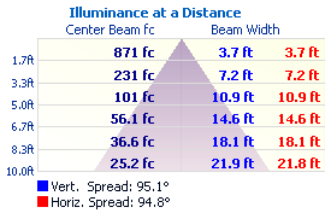
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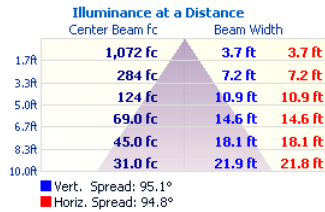
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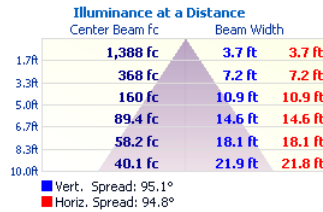
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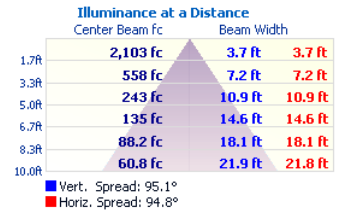
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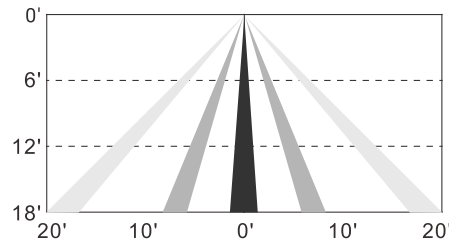
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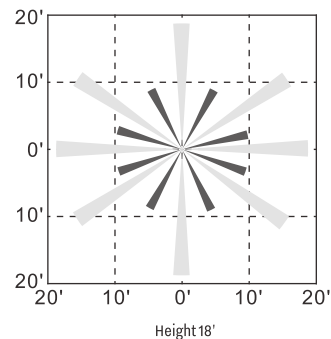
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SIDE VIEW

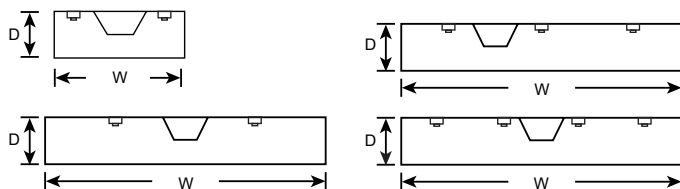


TOP VIEW



AMS coverage pattern

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>	IlumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IlumaTech - 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 - DDTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<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	<Lutron>	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, IlumaTech 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.