

# SM LED

Project Name:	
Type:	



**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'	27LED	27W LED	-27K	2700K <sup>7</sup>	(Blank) HE	Standard High Efficacy 	(Blank) C9	80+ CRI 90+ CRI <sup>8</sup>
	22	2' x 2'	36LED	36W LED	-30K	3000K				
	24	2' x 4'	44LED	44W LED	-35K	3500K				
			54LED	54W LED	-40K	4000K (Std.)				
			72LED	72W LED	-50K	5000K				
		108LED	108WLED							

TRIM TYPE	FIXTURE FINISH	DIFFUSER	VOLTAGE
(Blank) SB FB FN FW RB RN RW	(Blank) White (Std.) *BK Black RAL #9011 *AMB Anti-Microbial Coating (Matte Skye White)  * Non-standard finish with extra charge.	(Blank) Pattern #12 Acrylic Lens 0.100" Thick Pattern #12 A12125 Acrylic Lens 0.125" Thick Pattern #12 Polycarbonate P12125 Lens 0.125" Thick Pattern #19 Acrylic Lens 0.156" Thick A19 Thick P1 5/8"x5/8"x7/16" Deep Specular Plastic Louver P3 3/4"x3/4"x1/2" Deep Specular Plastic Louver <sup>3</sup> White WA125 Acrylic 0.125" Thick FR Frosted Acrylic Lens, Pattern#12, 0.100" thick Frosted FR12 Acrylic Lens, Pattern#12, 0.125" thick 3/4" x 3/4" x P5OL 3/8" Deep Specular Plastic Louver with overlay	UNV 120-277V (Std.) 120 120V 277 277V 347 347V <sup>2</sup> 480 480V <sup>2</sup>

LED DRIVER <sup>6</sup>	OPTIONS
GR Generic, 0-10V 10% dim (Std.) 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)	AB AB Switching EMG8 8W EM Battery Backup (CEC Compliant EM) <sup>5,11</sup> EMG15 15W EM Battery Backup (CEC Compliant EM) <sup>5,11</sup> EMG20 20W EM Battery Backup (CEC Compliant EM) <sup>5,11</sup> EMG25 25W EM Battery Backup (CEC Compliant EM) <sup>5,11</sup> ELCU-200 Fail-to-on Emergency lighting, UL924 <sup>9</sup> GTD Bodine Generator Transfer Device GTD10DIM Bodine Generator Transfer Device (0-10VDC Dimmer Override) F1 Single fuse, must select 120/277/347V <sup>1</sup> F2 Double fuse, must select 208/240V <sup>1</sup> SSH Swivel Stem Hanger DSH Double Stem Hanger ADPMS Bluetooth Mesh Wireless Sensor. Occupancy/Daylight harvesting/0-10V Dimming <sup>13,14</sup>  O7W Optional 7 Years Limited Warranty <sup>4</sup> O10W Optional 10 Years Limited Warranty <sup>4</sup> SLL Spring-Loaded Latches <sup>12</sup> HC403 Microwave bi-level Occupancy Sensor, adjustable via DIP switch <sup>15</sup> ARRA Assembled in USA BAA BAA(Buy American Act) compliant TAA Trade Agreements Act compliant
 BLT Bluetooth Mesh System (contact factory for more information)	

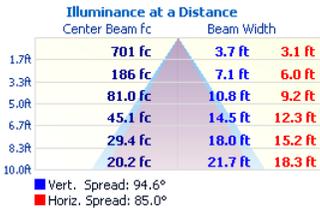
LIGHTING CONTROL SYSTEM	
LUTRON VIVE	<Lutron Vive System Enabled>  Click Here!
SNS200C RS-IR	<EasySense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) <sup>10</sup> IR dongle for EasySense control
PPA102S	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)
CASAMBI	Contact factory for CASAMBI READY options

### NOTES:

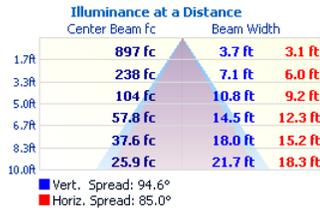
- Must specify voltage.
- Supplied with step down transformer.
- Not available in 1'x4'
- his limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
- Contact factory for other emergency ballast options.
- To find an approved dimmer switch, please see table 1.
- Available with C9 only.
- Lumen per watt is approximately 15% fewer than standard CRI (80+).
- Shipped separately.
- Please see Compatible Phone list in the separate attachment. If not listed, 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 not available.
- Only available with standard 0-10V LED driver.
- Default setting from the factory is "occupancy enabled, Daylight disabled". To enable Daylight, disable occupancy and enable daylight adjustment must be made in the field prior to installation.
- See Table2 to find factory setting.

# SM LED

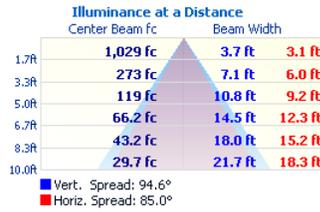
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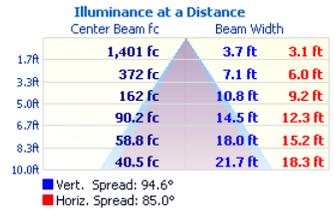
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**SM-14-2G-54LED**



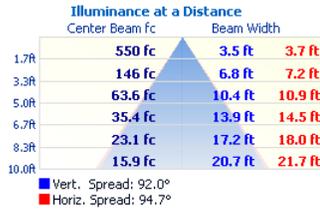
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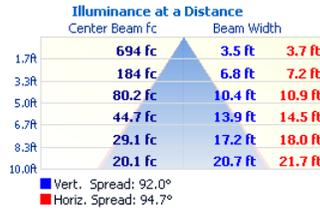
**SM-14-2G-108LED**



**SM-22-2G-27LED**



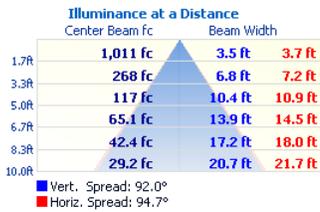
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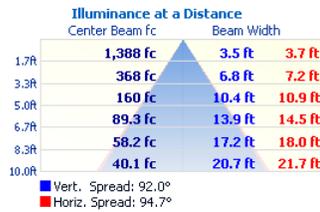
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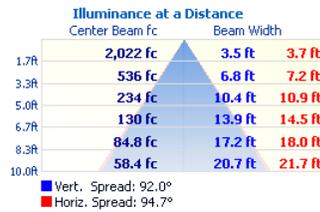
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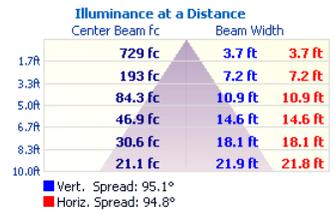
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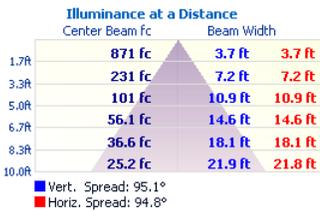
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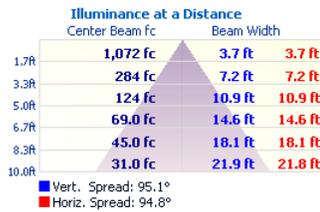
**SM-24-2G-36LED**



**SM-24-2G-44LED**



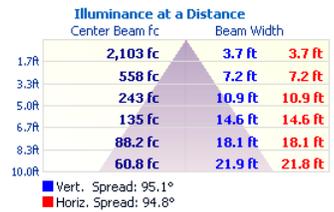
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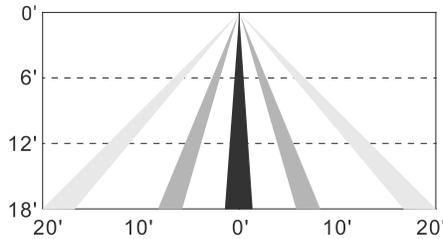
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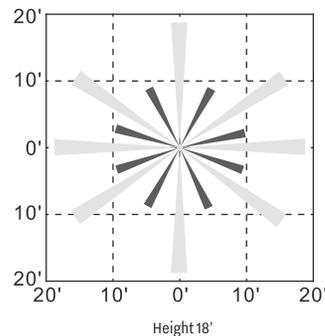
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**SIDE VIEW**

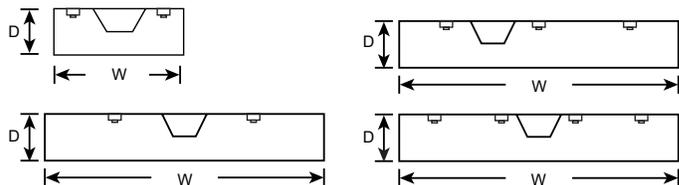


**TOP VIEW**



**ADPMS 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 <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> 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 - DVTv-xx, NFTV GRAFIK Eye: GRX-TV1 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 <sup>1,2</sup> 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>	Divia 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

NOTES:

- 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](http://www.lutron.com).
- For the Line/Hot (LH) 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.