

## DESCRIPTION

The SLS Series includes 2', 4' and 8' covered LED strip lights designed to replace fluorescent strip lighting. This updated strip series is color switchable between 3500K, 4000K and 5000K. In addition, there are two field-switchable power options, a 4' unit switchable from 30W, 40W and 50W (providing up to 7,170 lumens), and an 8' unit switchable from 50W, 60W, and 70W (providing up to 10,450 lumens). The SLS Series is also offered with integral battery backup, an integral multi-level dimming sensor installed behind the lens and linkable accessories allowing the unit to be linked up to 140', suspended or surface mounted. This high-efficacy luminaire is a cost-effective solution that provides long-life, uniform illumination and simple installation with toolless direct access to the driver compartment. The SLS Series delivers general ambient lighting perfect for indoor settings including schools, hospitals and stores, and is ideal for both new construction and retrofits in surface or suspended mount applications.

## SPECIFICATIONS

### Construction:

- Steel housing in a white finish
- Toolless direct access to the driver compartment by pressing on the two buttons on each end
- Available in three lengths, several different lumen packages:
  - 2' Unit, 20W, 2,600 lumens
  - 4' Unit, 40W, 5,200 lumens
  - 4' Unit, Power Switchable (30W-40W-50W), 4,620-5,790-7,170 lumens
  - 8' Unit, 64W, 8,320 lumens
  - 8' Unit, Power Switchable (50W-60W-70W), 7,640-9,020-10,450 lumens
- Two knockouts on both ends and several beneath the unit for ease of installation

### Optics/LEDs:

- Polycarbonate lens and end caps that provides uniform illumination along the entire length of the luminaire with no visible LED pixilation, lens is IK08 impact tested
- General 120° distribution
- Efficacies up to 150 LPW maximizes energy savings and utility rebates
- CCT switchable (3500K, 4000K and 5000K)
- Two power switchable configurations
  - 4' (30W-40W-50W) Offering up to 7,170 lumens
  - 8' (50W-60W-70W) Offering up to 10,450 lumens
- CRI of >80
- L70 >100,000 hours
- L90 rated at 54,000 hours

### Electrical:

- 100-277VAC, 50/60Hz
- 0-10V Dimming driver

### Installation:

- Toolless direct access to the driver compartment by pressing on the two buttons on each end
- Suspension or surface mount installation (suspension kit sold separately)
- Continuous row mounting (linkable adapter required) linkable up to 140'
- Several knockouts along the enclosure for flexibility in mounting
- Not suitable for installation in T-bar ceiling without field mounting modifications to be determined by installer

### Warranty:

- Five Year Warranty (Terms and Conditions Apply)

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
Accessories: \_\_\_\_\_  
Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



Not all product variations listed on this page are DLC qualified.  
Visit <https://designlights.org/qpl> to confirm qualification.

Specs at a Glance					
Model	SLS-2-20-C	SLS-4-40-C	SLS-4-50-CP	SLS-8-64-C	SLS-8-70-CP
Length*	2'	4'		8'	
Wattage**	20W	40W	Switchable 30W-40W-50W	64W	Switchable 50W-60W-70W
Lumens (lm)	2,600	5,200	4,620-5,790-7,170	8,320	7,640-9,020-10,450
Efficacy (LPW)	130				150
Distribution	General 120°				
CCT (K)	Switchable (3500K-4000K-5000K)				
CRI	>80				
Input Voltage	120-277VAC, 50/60Hz, 0-10V Dimming				
Operating Temp	-20°C to 40°C (-4°F to 104°F)				
Certifications	cULus Listed for Damp Locations, DLC PREMIUM				
Warranty	5 Years				
Weight	2.4lbs	3.75lbs		7.2lbs	

\*Nominal length

\*\*Nominal wattage, tested at 5000K CCT

**Note:** Environment and application will affect actual performance.  
Typical values and 25°C used for testing.

### Options

- Integral battery backup (BB) provides 1400 lumens and 90 minutes of emergency run time for path of egress (4' and 8' models only). Rated for ambient temperatures of 0°C to 40°C (32°F to 104°F)
- Dimming occupancy sensor (Option: SC), microwave, with daylight harvesting capabilities, 120/277VAC, (integral)

### Testing & Compliance:

- cULus Listed for Damp Locations
- DesignLights Consortium® (DLC) qualified product for the following categories:
  - Direct Linear Ambient Luminaires
  - Stairwell and Passageway Luminaires
  - Low-Bay Luminaires for Commercial and Industrial Buildings
- IK08 Rated
- Operating temperatures: -20°C to 40°C (-4°F to 104°F)

## Accessories

- Bluetooth PIR motion sensor with daylight harvesting, white finish  
[LE-MS2-HB1](#))
- Bluetooth wall switches (LE-SWX)
- Remote control for sensor (SC) allows for field programming (TL-HA-REMOTE)
- Cable suspension mount kits (MQHB-CTY10, SLS-4-CMK & SLS-8-CMK)
- Linkable adapter bracket allows units to be linked end to end for continuous rows with seamless illumination (for both surface and flush mount configurations)

## • Max units linkable:

- SLS-2-20, 27 pcs @120VAC, 60 pcs @ 277VAC
- SLS-4-40, 13 pcs @120VAC, 30 pcs @277VAC
- SLS-4-50, 10 pcs @ 120VAC, 24 pcs @ 277VAC
- SLS-8-64, 8 pcs @120VAC, 18 pcs @ 277VAC
- SLS-8-70, 8 pcs @120VAC, 18 pcs @ 277VAC

## Ordering Information (Example: SLS-4-40-C)

Series	Length/Wattage/CCT	Options (Factory Installed)
SLS	2-20-C = 2', 20W, Color Switchable (3500K-4000K-5000K)	SC <sup>2</sup> = Dimming Occupancy Sensor, Microwave, 120/277VAC (Integral)
	4-40-C = 4', 40W, Color Switchable (3500K-4000K-5000K)	BB <sup>1</sup> = Battery Backup
	4-50-CP = 4', 50W, Color Switchable (3500K-4000K-5000K) & Power Switchable (30W-40W-50W)	
	8-64-C = 8', 64W, Color Switchable (3500K-4000K-5000K)	
	8-70-CP = 8', 70W, Color Switchable (3500K-4000K-5000K) & Power Switchable (50W-60W-70W)	

## LiteLogic Accessories<sup>3</sup> (Field Installed)

[LE-MS2-HB1](#) = Bluetooth Enabled Motion PIR Sensor with Daylight Harvesting, 120/277VAC

[LE-SW2](#) = Bluetooth Enabled, 5-Button, Battery Powered Wall Switch

[LE-SW3](#) = Bluetooth Enabled, 3-Button, Line Voltage Wall Switch (Neutral Required)

[LE-SW4](#) = Bluetooth Enabled, 7-Button, Line Voltage Wall Switch (Neutral Required)

LE-WP = Wallplate for LE-SW2

TL-HA-REMOTE<sup>4</sup> = Remote Control For Sensor (SC)

## Accessories<sup>3</sup> (Field Installed)

MQHB-CTY10 = 10' Cable Suspension Mounting w/Integral Y-toggles (Pack of 2)

SLS-4-CMK = 4' Cable Suspension Mounting Kit for 2' & 4' Units

SLS-8-CMK = 4' Cable Suspension Mounting Kit for 8' Unit

SLS-L4F = Surface/Flush Mount Linkable Bracket for 2' & 4' Units (Includes Wire Harness)

SLS-L4S = Suspension Mount Linkable Bracket for 2' & 4' Units (Includes Wire Harness & Cable Kit)

SLS-L8F = Surface / Flush Mount Linkable Bracket for 8' Units (Includes Wire Harness)

SLS-L8S = Suspension Mount Linkable Bracket for 8' Units (Includes Wire Harness & Cable Kit)

## Notes

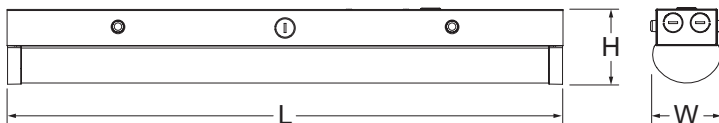
<sup>1</sup> Not available on 2-20-C configurations

<sup>2</sup> Not available on 4-40-C configuration

<sup>3</sup> Order as a separate line item, shipped in a separate box for installation in the field

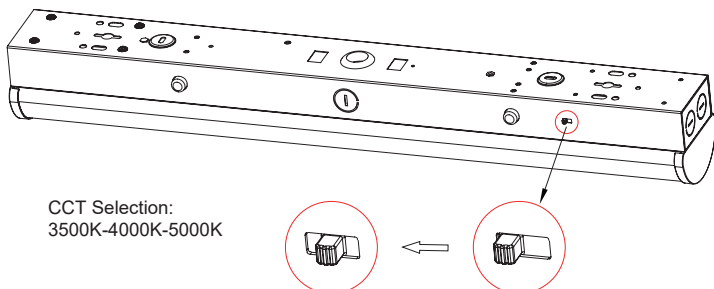
<sup>4</sup> Remote control not required if sensor settings are acceptable

## Dimensions



Model	L	W	H
SLS-2	24.0"	3.0"	3.2"
SLS-4	48.0"	3.0"	3.2"
SLS-8	96.0"	3.0"	3.2"

## Switch Location



## Sample Photometry

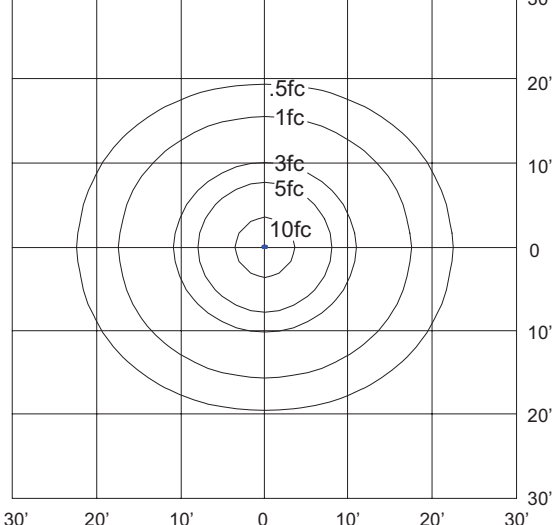
### SLS-4-40-C; 4000K CCT

IES: TYPE VS Very Short

MOUNTING HEIGHT: 10'

TILT: ZERO

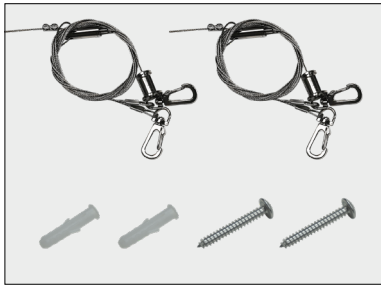
HORIZONTAL SPACING CRITERIA: 1.26



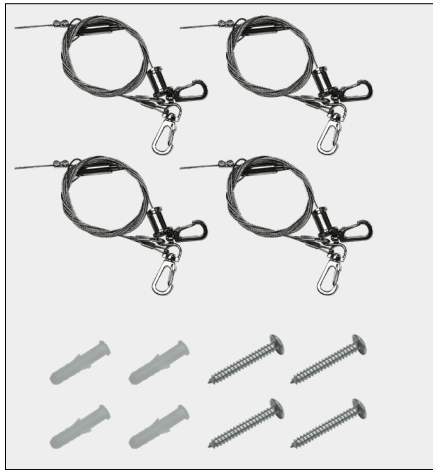
## Performance Data

Model	Wattage	CCT	Lumens	LPW	CRI
SLS-2-20-C (20W, 3500K)	20W	3500K	2500	125	80
SLS-2-20-C (20W, 4000K)	20W	4000K	2600	130	80
SLS-2-20-C (20W, 5000K)	20W	5000K	2560	128	80
SLS-4-40-C (40W, 3500K)	40W	3500K	5000	125	80
SLS-4-40-C (40W, 4000K)	40W	4000K	5200	130	80
SLS-4-40-C (40W, 5000K)	40W	5000K	5120	128	80
SLS-4-50-CP (30W, 3500K)	30W	3500K	4527	153	80
SLS-4-50-CP (30W, 4000K)	30W	4000K	4623	161	80
SLS-4-50-CP (30W, 5000K)	30W	5000K	4473	152	80
SLS-4-50-CP (40W, 3500K)	40W	3500K	5809	148	80
SLS-4-50-CP (40W, 4000K)	40W	4000K	5973	158	80
SLS-4-50-CP (40W, 5000K)	40W	5000K	5877	151	80
SLS-4-50-CP (50W, 3500K)	50W	3500K	6847	141	80
SLS-4-50-CP (50W, 4000K)	50W	4000K	7173	155	80
SLS-4-50-CP (50W, 5000K)	50W	5000K	7020	144	80
SLS-8-64-C (64W, 3500K)	64W	3500K	8000	125	80
SLS-8-64-C (64W, 4000K)	64W	4000K	8320	130	80
SLS-8-64-C (64W, 5000K)	64W	5000K	8192	128	80
SLS-8-70-CP (50W, 3500K)	50W	3500K	7766	154	80
SLS-8-70-CP (50W, 4000K)	50W	4000K	7639	155	80
SLS-8-70-CP (50W, 5000K)	50W	5000K	7699	153	80
SLS-8-70-CP (60W, 3500K)	60W	3500K	8910	151	80
SLS-8-70-CP (60W, 4000K)	60W	4000K	9017	157	80
SLS-8-70-CP (60W, 5000K)	60W	5000K	8802	149	80
SLS-8-70-CP (70W, 3500K)	70W	3500K	10439	151	80
SLS-8-70-CP (70W, 4000K)	70W	4000K	10169	147	80
SLS-8-70-CP (70W, 5000K)	70W	5000K	10446	152	80

**Cable Suspension Mounting Kit Detail (SLS-4-CMK)**



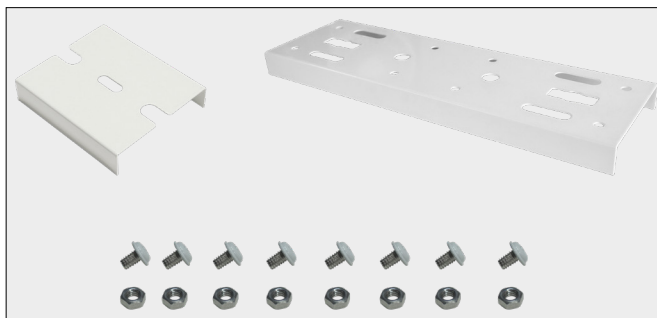
**Cable Suspension Mounting Kit Detail (SLS-8-CMK)**



**Cable Suspension Mounting w/Integral Y-toggles Detail (MQHB-CTY10)**



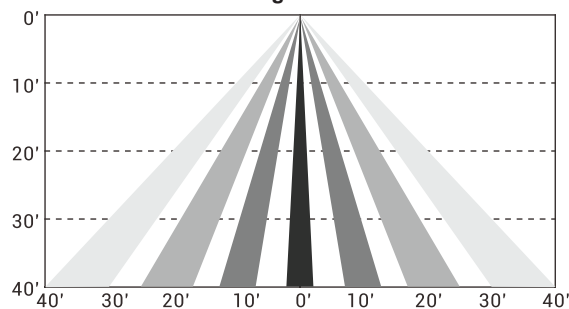
**Linkable Bracket Detail (SLS-LxF, SLS-LxS)**



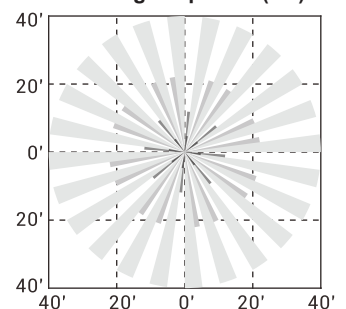
**Sensor Details - Bluetooth Enabled (Accessory: LE-MS2-HB1) [Click for sensor details](#)**



**Coverage Side View**



**Coverage Top View (40')**



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SENSOR SETTINGS**

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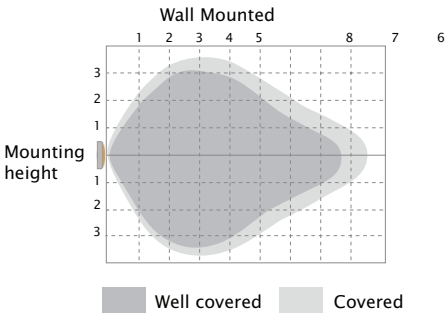
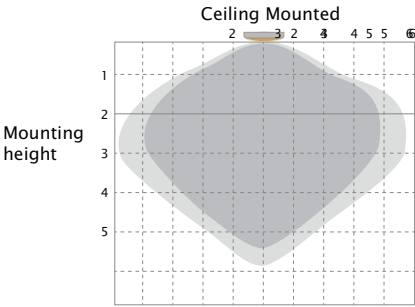
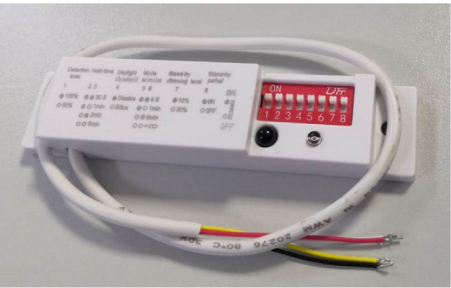


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**Note:** Bluetooth sensor controls do not allow for CCT selection using the app. CCT must be manually selected on the fixture.

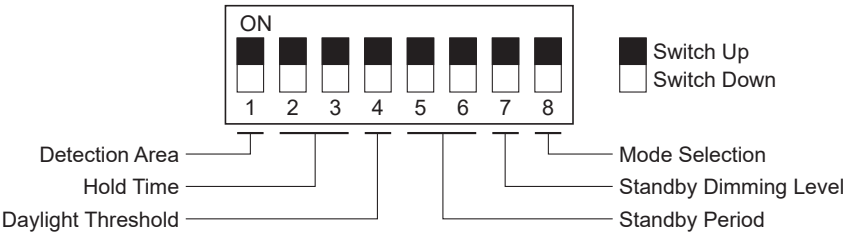
Sensor Details (Option: SC)



Technical Data (Option: SC)

Operating Voltage:	10.5-15V DC (supply current >50mA)
Operating Current:	<30mA
Output:	ON/OFF 1-10V
Stand-by Power:	≤0.5W
Detection Area:	50% /100%
Hold Time:	30s/1min/2min/5min
Daylight Threshold:	Disable/50Lux
Stand-by Period:	0s/1min/5min//+∞

Stand-by Dimming Level:	10%/30%
Microwave Frequency:	5.8GHz±75MHz
Microwave Power:	<0.3mW
Mounting Height:	Max.4.5m (ceiling mounted)
Detection Range:	ø4-8m (ceiling mounted)
Detection Angle:	360° Ceiling mounted, 150° wall mounted
Operating Temperature:	-40°C to 80°C (-40°F to 176°F)
Size:	84 x 18 x 11mm (3.31" x 0.71" x 0.43")



By selecting the combination of the DIP switches, sensor data can be precisely set for each specific application.

<input checked="" type="checkbox"/>	100%
<input type="checkbox"/>	50%

**Detection area**  
In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30sec
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1min
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2min
<input type="checkbox"/>	<input type="checkbox"/>	5min

**Hold time**  
The period of light keeping 100% brightness after moving objects leave the detection area.

<input checked="" type="checkbox"/>	Disable
<input type="checkbox"/>	50lux

**Daylight Threshold**  
Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor works everytime it detects motion regardless the ambient brightness.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0sec
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1min
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5min
<input type="checkbox"/>	<input type="checkbox"/>	+∞

**Standby Period**  
The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always kept at low output if no movement in the detection area and doesn't turn off.

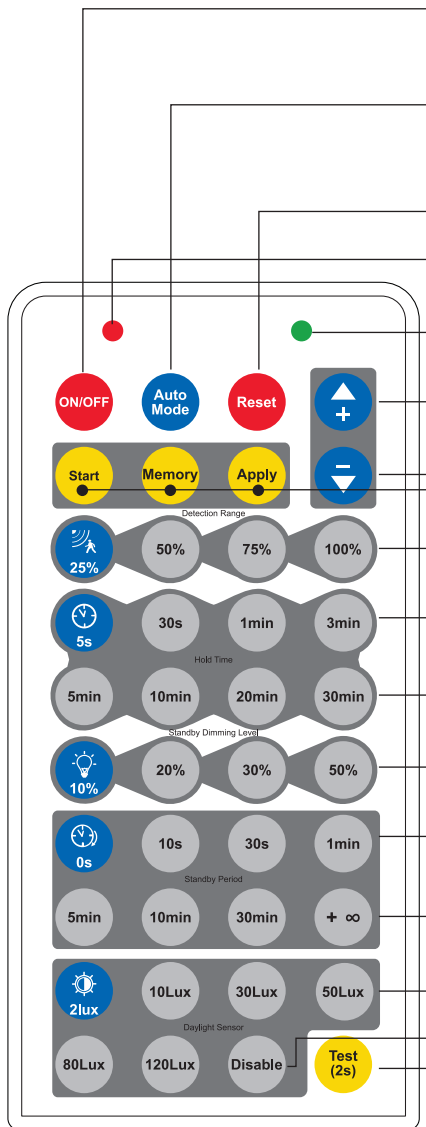
<input checked="" type="checkbox"/>	10%
<input type="checkbox"/>	30%

**Standby Dimming Level**  
The definition of low output in the standby period.

<input checked="" type="checkbox"/>	ON
<input type="checkbox"/>	OFF

**Mode Selection**  
Sensor mode on when the DIP switch is up; sensor mode off when the DIP switch is down.

## Sensor Remote Settings (Remote Control TL-HA-REMOTE)



### ON/OFF

1. "ON/OFF" key only functions as a switch of the light.
2. If this button is pressed to turn off the lamp before it's short-circuited, the lamp will remain off after power-on again.

### Auto Mode

If the "Auto Mode" button is pressed, the sensor starts to work and all settings remain the same before the light gets switched on/off.

### Reset

1. Press "Reset" button to change brightness to max level.
2. Press "Reset" button, products with DIP switch will be controlled by DIP switches; otherwise initial settings will be; 100% detection range, hold time 5S, no standby time and daylight threshold disabled.

Flashes after pressing any button

Flashes only after pressing "Apply" button

### +/-

1. To adjust brightness 10-100% in on/off mode.
2. To adjust highest brightness 60-100% in sensor mode.

### Start

Press "Start" to customize scene; users can change detection range, daylight threshold, hold time, standby dimming level and standby period.

### Memory

1. Press "Memory" to save all the settings.
2. The settings remain the same as the last time if the values are not reset.

### Apply

1. Press "Apply" to deliver the saved setting.
2. Press "Apply" without "Memory" will make all the setting one-time operation.
3. Settings should be done within 30s, otherwise it exits memory mode.



Detection area (Press to define detection area 100%/75%/50%/25%.)



Hold time (Press to define hold time 5s/30s/1min/3min/5min/10min/20min/30min).



Standby dimming level (Press to define standby dimming level 10%/20%/30%/50%).



Standby period (Press to define standby period 0s/10s/30s/1min/5min/10min/30min/+∞).

Note: "0s" means no standby period; "+∞" means unlimited standby period.



Daylight threshold (Press to define daylight level 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable).  
Note: Disable means light will be turned on once sensor detects movement, regardless of the ambient lux.

### Test (2s)

The button "Test (2s)" is for testing purpose after commissioning. By pressing this button, the sensor goes to test mode (hold time is only 2s).