

# SH Series



5935 West 84th St. | Indianapolis, IN 46278 | 1-888-391-4822 | www.SolasRay.com

## The CHALLENGER™ SH

Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS



Optional wireless control and occupancy sensing.



Cat. #

Type

Notes

### CERTIFICATIONS / RATINGS



CERTIFIED  
UL 1598

### KEY FEATURES AND BENEFITS

- Available in 4' and 8' lengths.
- 275° beam angle.
- DLC 5.1 Premium listed.
- Precision angled LED arrays establish exact light distribution.
- Plug-and-play ZigBee enabled lighting controls.
- Optional multi-sensor - requires harness on SH and SHL models.
- Diffused polycarbonate lenses eliminate glare and hot spots.
- Lightweight and installer friendly - quick access channel for end-to-end wiring.
- Extruded aluminum housing.
- Low profile fixture body expands mounting possibilities.
- Brown end caps - color coded for quick visual identification.
- Lead free.
- Trade Agreement Act Compliant.



### SPECIFICATIONS

<b>Voltage</b>	120- 277VAC
<b>Wattage</b>	120W (4' models) / 150W (8' models)
<b>Color Temp</b>	5000 Kelvin standard (4000K/3500K special order)
<b>Housing</b>	Extruded aluminum alloy
<b>Color</b>	White with brown end-caps
<b>Lens</b>	Polycarbonate
<b>Lifetime</b>	50,000 hrs L <sub>80</sub>
<b>CRI</b>	Ra ≥ 80
<b>Beam Angle</b>	275°
<b>Power Factor</b>	cos ≥ 0.9

**Efficacy (4' models)** 145 lm/W

**Efficacy (8' models)** 182 lm/W

**Ambient Temperature** -10°C (14°F) to 40°C (104°F)

**Warranty** 5 Year Limited Warranty

#### LUMENS

Color Temp	120W (4ft)	150W (8ft)
5000K	17,428 lm	27,334 lm
4000K*	17,204 lm	27,617 lm
3500K*	16,979 lm	26,609 lm

\* 4000K / 3500K special order, consult factory for lead times and minimums.

### PRODUCT ORDERING SELECTION

<b>Series/Length</b> <input type="checkbox"/> SH4B3432SU - 4FT <input type="checkbox"/> SH8B2465SU - 8FT	<b>Kelvin</b> <input type="checkbox"/> 50 - 5000K (Standard) <input type="checkbox"/> 40 - 4000K Special order, consult factory for lead times and order minimums. <input type="checkbox"/> 35 - 3500K	<b>Options</b> <input type="checkbox"/> LS-BRK - Multi-Sensor Harness - Required When Using MULTI-SENSOR-LS or DONGLE-VLC <input type="checkbox"/> MULTI-SENSOR-LS - Occupancy Sensor / Wireless Control <input type="checkbox"/> DONGLE-VLC - Wireless Communication Module <input type="checkbox"/> EM-L2554-XX - Emergency Battery Backup
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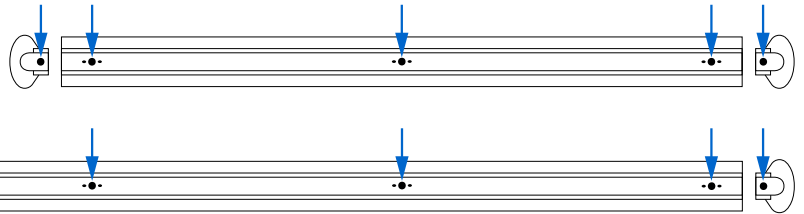
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### MOUNTING OPTIONS



#### Knockout and mounting hole locations

All Challenger system lights feature knockout and mounting hole sets less than 24" apart along the top of the fixture housing. End-caps also feature a knockout on both ends.



### WIRELESS CONTROLS / OCCUPANCY SENSOR

#### Multi-Sensor



The multi-sensor is an optional add-on that functions as:

1. a stand-alone occupancy sensor with tactile programming buttons for min/max levels and motion detection.
2. a wireless communication module for use with the sensor connect app on a ZigBee mesh network.

ST and SD series are multi-sensor ready. SH and SHL series require a wired harness.

**P/N: MULTI-SENSOR-LS**

#### Wireless Communication Module

The wireless communication module is an optional add-on that:

1. allows multiple lights to be controlled by one multi-sensor.
2. adds wireless controls to any Challenger fixture so for use with the sensor connect app on a ZigBee mesh network

**P/N: DONGLE-VLC**



#### Sensor Connect App



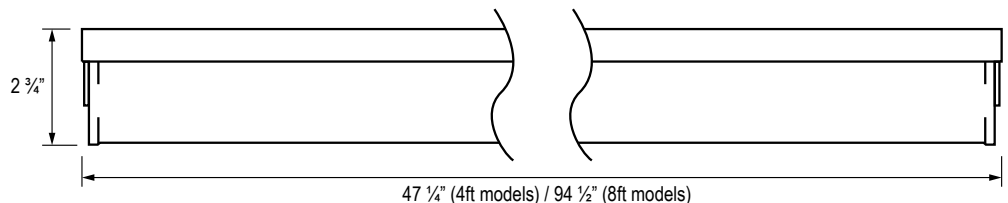
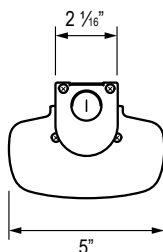
A free app that allows control and commissioning of ZigBee connected devices.

Android only.

### WEIGHTS AND DIMENSIONS

#### WEIGHTS

<b>4ft Models</b>	5.73 lb
<b>8ft Models</b>	11.6 lb



### THE CHALLENGER LINEAR LIGHT SYSTEM

ST Series	SD Series	SH Series	SHL Series
<p>120° Standard beam pattern White end-caps Multi-sensor wiring harness included</p>	<p>135° Wide beam pattern White end-caps Multi-sensor wiring harness included</p>	<p>275° Wide beam pattern + uplight Brown end-caps Multi-sensor wiring harness <b>optional</b></p>	<p>180° asymmetric beam pattern Black end-caps Multi-sensor wiring harness <b>optional</b></p>