

SH Series

The CHALLENGER™ SH

Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS



SOLAS RAY™ LIGHTING

5935 West 84th St. | Indianapolis, IN 46278 | 1-800-840-5635 | www.SolasRay.com

Cat. #	Type
Notes	

CERTIFICATIONS / RATINGS



KEY FEATURES AND BENEFITS

- Available in 4' and 8' lengths.
- 275° beam angle.
- DLC v5.1 standard.
- 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

Voltage	120- 277VAC
Wattage	120W (4' models) / 150W (8' models)
Color Temp	5000 Kelvin standard (4000K/3500K special order)
Housing	Extruded aluminum alloy
Color	White with brown end-caps
Lens	Polycarbonate
Lifetime	50,000 hrs L80
CRI	Ra ≥ 80
Beam Angle	275°
Power Factor	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

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

SH Series

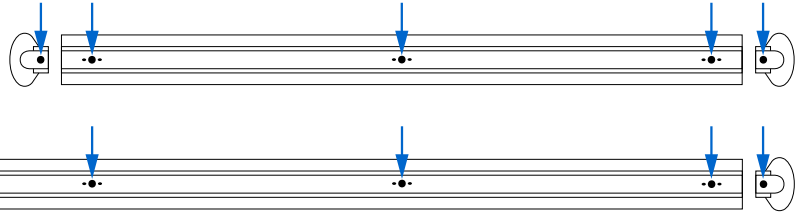
The CHALLENGER™ SH

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

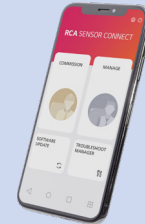
The wireless communication module is an optional add-on that:

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



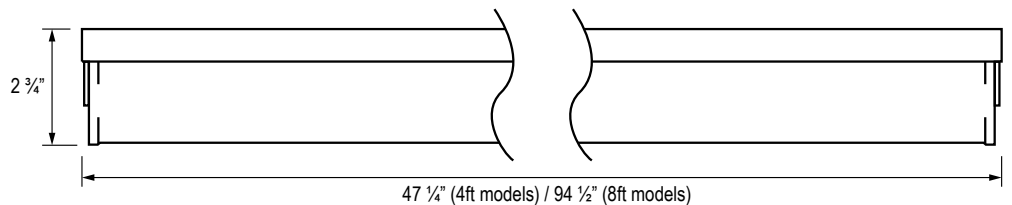
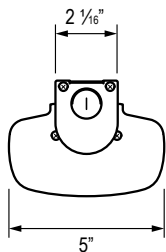
A free app that allows control and commissioning of ZigBee connected devices.

Android only.

WEIGHTS AND DIMENSIONS

WEIGHTS

4ft Models	5.73 lb
8ft Models	11.6 lb



THE CHALLENGER LINEAR LIGHT SYSTEM

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