

# SH Series

Cat. #	Type
Notes	

## The CHALLENGER™ SH

### Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS



### CERTIFICATIONS / RATINGS



### 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

**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

<b>Series/Length</b>	<b>Kelvin</b>	<b>Options</b>
<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

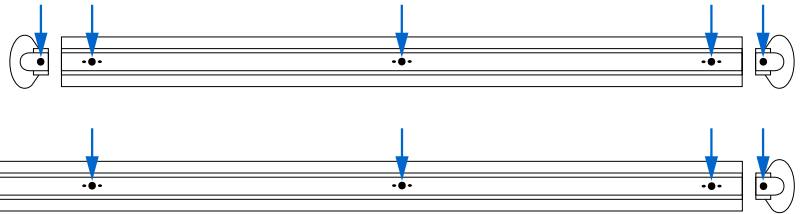
## The CHALLENGER™ SH

### 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

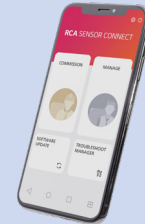
The wireless communication module is an optional add-on that:

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



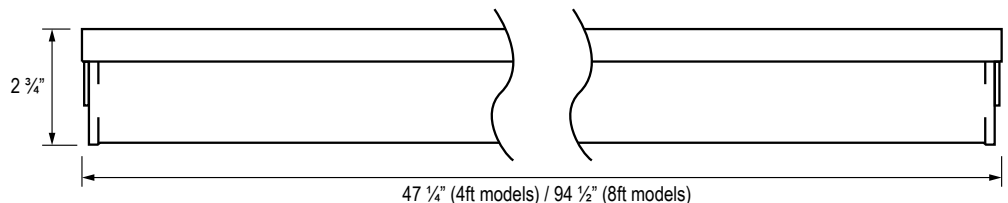
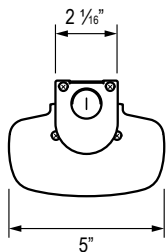
A free app that allows control and commissioning of ZigBee connected devices.

Android only.

### WEIGHTS AND DIMENSIONS

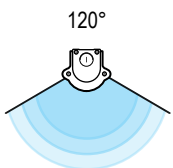
#### WEIGHTS

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



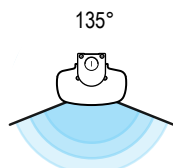
## THE CHALLENGER LINEAR LIGHT SYSTEM

#### ST Series



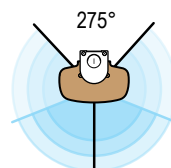
Standard beam pattern  
White end-caps  
Multi-sensor wiring harness included

#### SD Series



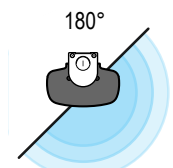
Wide beam pattern  
White end-caps  
Multi-sensor wiring harness included

#### SH Series



Wide beam pattern + uplight  
Brown end-caps  
Multi-sensor wiring harness **optional**

#### SHL Series



asymmetric beam pattern  
Black end-caps  
Multi-sensor wiring harness **optional**