

SD Series

Cat. #	Type
Notes	

The CHALLENGER™ SD

Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS

CERTIFICATIONS / RATINGS



KEY FEATURES AND BENEFITS

- Available in 4' and 8' lengths.
- 135° beam angle.
- DLC v5.1 standard.
- Precision angled LED arrays establish exact light distribution.
- Plug-and-play ZigBee enabled lighting controls.
- Multi-sensor ready - wired harness included with SD and ST 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.
- White end caps - color coded for quick visual identification.
- Lead free.
- Trade Agreement Act Compliant.



SPECIFICATIONS

Voltage 120- 277VAC
Wattage 40W (4' models) / 80W (8' models)
Color Temp 5000 Kelvin standard (4000K/3500K special order)
Housing Extruded aluminum alloy
Color White with white end-caps
Lens Polycarbonate
Lifetime 50,000 hrs L₈₀
CRI Ra ≥ 80
Beam Angle 135°
Power Factor cos ≥ 0.9

Efficacy (4' models) 148 lm/W
Efficacy (8' models) 153 lm/W
Ambient Temperature -10°C (14°F) to 40°C (104°F)
Warranty 5 Year Limited Warranty

LUMENS

Color Temp	40W (4ft)	80W (8ft)
5000K	5,907 lm	12,250 lm
4000K*	5,879 lm	12,254 lm
3500K*	5,851 lm	12,482 lm

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

PRODUCT ORDERING SELECTION

Series/Length	Kelvin	Options
<input type="checkbox"/> SD4B4808SU - 4FT	<input type="checkbox"/> 50 - 5000K (Standard)	<input type="checkbox"/> MULTI-SENSOR-LS - Occupancy Sensor / Wireless Control
<input type="checkbox"/> SD8B4815SU - 8FT	<input type="checkbox"/> 40 - 4000K Special order, consult factory for lead times and order minimums.	<input type="checkbox"/> DONGLE-VLC - Wireless Communication Module
	<input type="checkbox"/> 35 - 3500K	<input type="checkbox"/> EM-L2554-XX - Emergency Battery Backup
		<input type="checkbox"/> LINEAR-EP - End Plate - Use If Removing Included Multi-Sensor Harness

SD Series

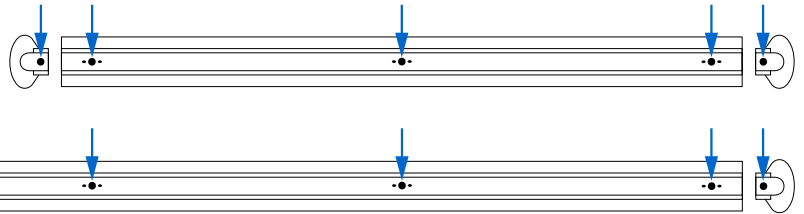
The CHALLENGER™ SD

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



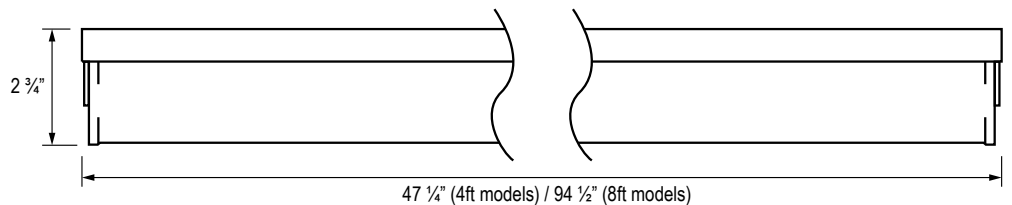
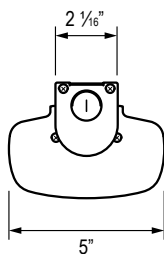
A free app that allows control and commissioning of ZigBee connected devices.

Android only.

WEIGHTS AND DIMENSIONS

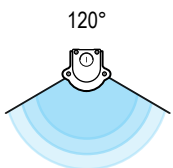
WEIGHTS

4ft Models	5.73 lb
8ft Models	11.6 lb



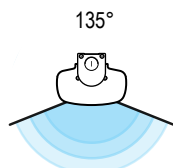
THE CHALLENGER LINEAR LIGHT SYSTEM

ST Series



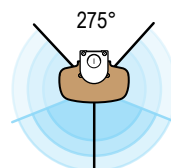
120°
Standard beam pattern
White end-caps
Multi-sensor wiring harness included

SD Series



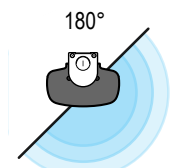
135°
Wide beam pattern
White end-caps
Multi-sensor wiring harness included

SH Series



275°
Wide beam pattern + uplight
Brown end-caps
Multi-sensor wiring harness **optional**

SHL Series



180°
asymmetric beam pattern
Black end-caps
Multi-sensor wiring harness **optional**