SD Series

The CHALLENGER™ SD

Wireless Control Linear LED Lighting

SOLAS RAY™ LIGHTING

Cat. #		Type
Notes		

by **RCA** COMMERCIAL ELECTRONICS

135°

Wireless control and occupancy sensing ready.

CERTIFICATIONS / RATINGS

c(UL)us LISTED   DLC LISTED PREMIUM   FC   RoHS compliant   CERTIFIED UL 1598

KEY FEATURES AND BENEFITS

• Available in 4' and 8' lengths.
• 135° beam angle.
• DLC 5.1 Premium listed.
• 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.

TAA 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 L_{80}
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
☐ SD4B4808SU - 4FT
☐ SD8B4815SU - 8FT

Kelvin
☐ 50 - 5000K (Standard)
☐ 40 - 4000K   Special order, consult factory for
☐ 35 - 3500K   lead times and order minimums.

Options
☐ MULTI-SENSOR-LS - Occupancy Sensor / Wireless Control
☐ DONGLE-VLC - Wireless Communication Module
☐ EM-L2554-XX - Emergency Battery Backup
☐ LINEAR-EP - End Plate - Use If Removing Included Multi-Sensor Harness

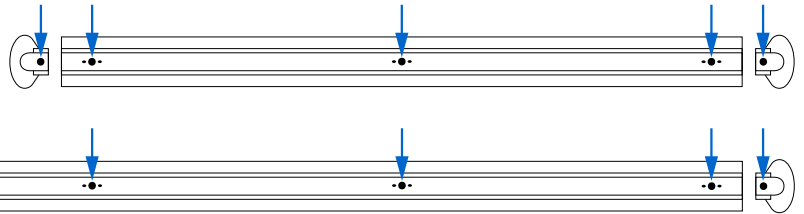Specifications and data are subject to change without notice.

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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 knock-out 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 program-ming 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
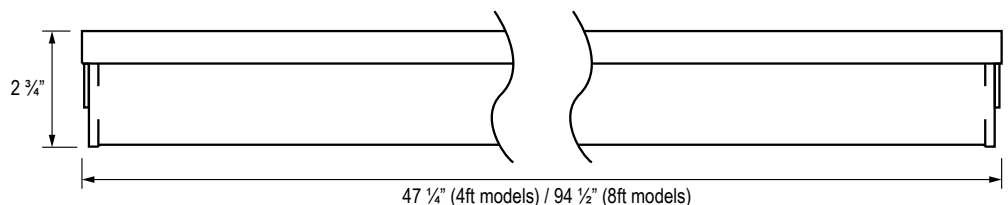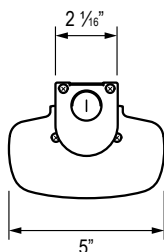
P/N: DONGLE-VLC

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

2 1⁄16"

2 ¾"

5"

47 ¼" (4ft models) / 94 ½" (8ft models)

THE CHALLENGER LINEAR LIGHT SYSTEM

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