

ST Series



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

The CHALLENGER™ ST

Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS



Cat. #	Type
Notes	

CERTIFICATIONS / RATINGS



CERTIFIED
UL 1598

KEY FEATURES AND BENEFITS

- Available in 4' and 8' lengths.
- 120° 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.



SPECIFICATIONS

Voltage	120- 277VAC
Wattage	31W (4' models) / 60W (8' models)
Color Temp	5000K / 4000K / 3500K
Housing	Extruded aluminum alloy
Color	White with white end-caps
Lens	Polycarbonate
Lifetime	50,000 hrs L ₈₀
CRI	Ra ≥ 80
Beam Angle	120°
Power Factor	cos ≥ 0.9

Efficacy (4' models)	146 lm/W
Efficacy (8' models)	165 lm/W
Ambient Temperature	-10°C (14°F) to 40°C (104°F)
Warranty	5 Year Limited Warranty

LUMENS

Color Temp	31W (4ft)	60W (8ft)
5000K	4,540 lm	9,927 lm
4000K	4,600 lm	9,970 lm
3500K	4,662 lm	9,936 lm

PRODUCT ORDERING SELECTION

Series/Length <input type="checkbox"/> ST4B3208SU - 4FT <input type="checkbox"/> ST8B3215SU - 8FT	Kelvin <input type="checkbox"/> 50 - 5000K (Standard) <input type="checkbox"/> 40 - 4000K <input type="checkbox"/> 35 - 3500K	Options <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 <input type="checkbox"/> LINEAR-EP - End Plate - Use If Removing Included Multi-Sensor Harness
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ST Series

The CHALLENGER™ ST



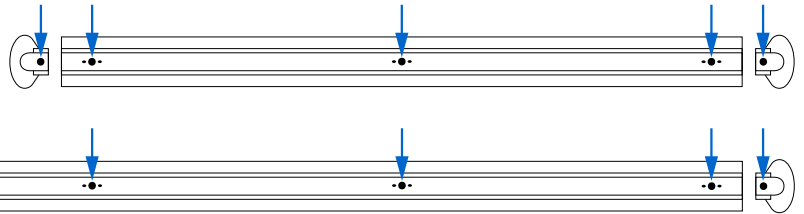
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MOUNTING OPTIONS



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



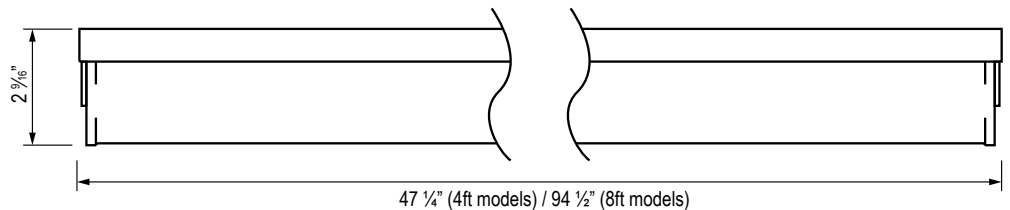
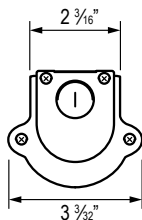
A free app that allows control and commissioning of ZigBee connected devices.

Android only.

WEIGHTS AND DIMENSIONS

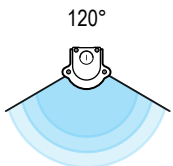
WEIGHTS

4ft Models	3.09 lb
8ft Models	5.29 lb



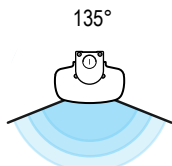
THE CHALLENGER LINEAR LIGHT SYSTEM

ST Series



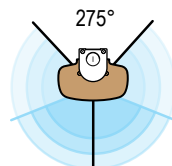
Standard beam pattern
White end-caps
Multi-sensor wiring harness included

SD Series



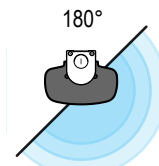
Wide beam pattern
White end-caps
Multi-sensor wiring harness included

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**