ST Series

The CHALLENGER™ ST
Wireless Control Linear LED Lighting

by **RCA** COMMERCIAL ELECTRONICS

Cat. #	Type
Notes	

120°

Wireless control and occupancy sensing ready.

CERTIFICATIONS / RATINGS

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

KEY FEATURES AND BENEFITS

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

TAA 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
☐ ST4B3208SU - 4FT
☐ ST8B3215SU - 8FT

Kelvin
☐ 50 - 5000K (Standard)
☐ 40 - 4000K
☐ 35 - 3500K

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

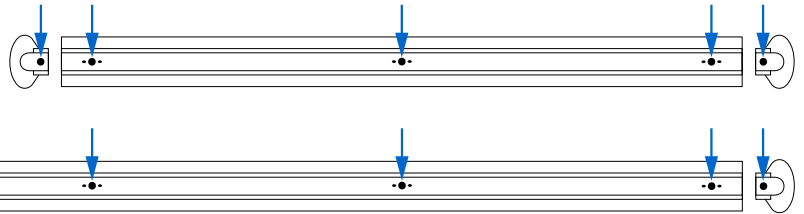Specifications and data are subject to change without notice.

ST Series
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SOLAS RAY™ LIGHTING

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

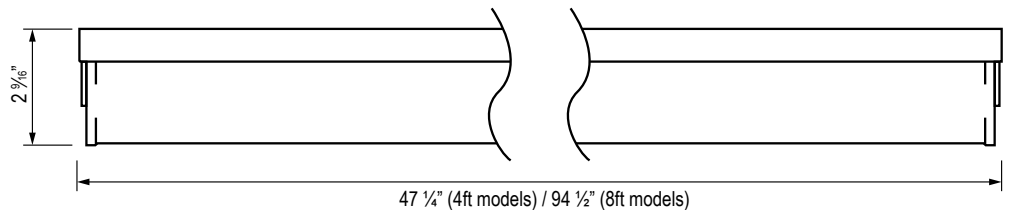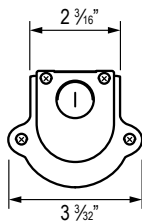**P/N: DONGLE-VLC**

Sensor Connect App

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

Android only.
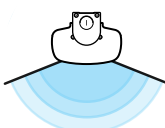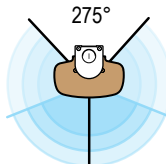
WEIGHTS AND DIMENSIONS

WEIGHTS

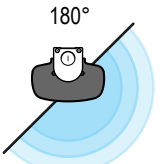|	
4ft Models	3.09 lb
8ft Models	5.29 lb

2 ³/₁₆"

3 ³/₃₂"

2 ⁹/₁₆"

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

THE CHALLENGER LINEAR LIGHT SYSTEM

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

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