

# TSLED Field-Adjustable Stairwell Light



## TSLED2



PROJECT:

DATE:

TYPE:

PREPARED BY:

## TSLED4



### Field-Adjustable, Stairwell Light

0-10V

100,000 HOURS

POWERED BY LIGHTCLOUD

FIELD ADJUSTABLE

DAMP RATED

LIGHTCLOUD BLUE



KEY FEATURES

- 2 sizes with selectable wattage:  
2 ft: 25/20/15W (25W default)  
4 ft: 50/40/30W (50W default)
- Adjustable CCT: 3500/4000/5000K (4000K default)
- Available with Lightcloud & Lightcloud Blue
- Offered with Ultrasonic sensor & Bi-level operation
- Battery backup option available
- UL Listed for **damp** locations
- 120-277V driver with 0-10V dimming
- 5-Year, no-compromise warranty

## PERFORMANCE

TSLED2	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	25W			20W			15W		
INPUT WATTS	24.6W	23.9W	24.7W	20.7W	20.0W	20.6W	15.9W	15.4W	15.7W
LUMENS	3,358	3,500	3,392	2,702	2,786	2,712	2,120	2,169	2,129
EFFICACY (LM/W)	136.3	146.4	137.1	130.5	139.3	131.6	133.6	140.8	135.6
CRI	84.0	83.9	83.2	84.0	83.9	83.2	84.0	83.9	83.2
VOLTAGE RATINGS	120-277V								

TSLED4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	50W			40W			30W		
INPUT WATTS	48.6W	46.2W	48.7W	39.3W	37.8W	39.5W	29.5W	28.7W	29.7W
LUMENS	6,602	6,892	6,674	5,482	5,685	5,575	4,297	4,443	4,380
EFFICACY (LM/W)	135.9	149.1	137.0	139.4	150.3	141.1	145.6	155.0	147.6
CRI	84.5	84.5	84.1	84.5	84.5	84.1	84.5	84.5	84.1
VOLTAGE RATINGS	120-277V								

# TSLED Field-Adjustable Stairwell Light



## TECHNICAL SPECIFICATIONS

### COMPLIANCE

#### UL Listed

Suitable for damp locations

#### IESNA LM-79 & LM-80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80

#### DLC Listed

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

CATALOG#	DLC ID
TSLED2	S-LC3CGF
TSLED4	S-WBY940

### LED CHARACTERISTICS

#### LEDs

Long-life, high-efficacy, discrete, surface-mount LEDs

#### Color Consistency

4-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### CONSTRUCTION

#### Cold Weather Starting

The minimum starting temperature is -40°C (-40°F)

#### Cold Weather Starting for Battery Backup

The minimum starting temperature is 0°C (32°F)

#### Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

#### Maximum Ambient Temperature for Battery Backup

Suitable for use in up to 40°C (104°F)

#### Mounting

Surface mounting & V-hoot standard. Angle mount kit ordered separately.

#### Housing

Aluminum extrusion

#### Lens

Polycarbonate

#### Finish

Formulated for high durability and long-lasting color

#### Green Technology

Mercury and UV free. RoHs-compliant components.

### FACTORY SETTINGS

Selectable wattages:

2 ft: 25/20/15W (25W default)

4 ft: 50/40/30W (50W default)

Selectable CCT: 3500/4000/5000K (4000K default)

### ELECTRICAL

#### Drivers:

Constant Current, Class 2, 120-277V, 50/60 Hz,

**TSLED2 25W:** 120V: 0.21A, 208V: 0.12A, 240V: 0.10A, 277V: 0.09A

**TSLED2 20W:** 120V: 0.17A, 208V: 0.1A, 240V: 0.08A, 277V: 0.07A

**TSLED2 15W:** 120V: 0.13A, 208V: 0.07A, 240V: 0.06A, 277V: 0.05A

**TSLED4 50W:** 120V: 0.42A, 208V: 0.24A, 240V: 0.21A, 277V: 0.18A

**TSLED4 40W:** 120V: 0.33A, 208V: 0.19A, 240V: 0.17A, 277V: 0.14A

**TSLED4 30W:** 120V: 0.25A, 208V: 0.14A, 240V: 0.13A, 277V: 0.11A

#### Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems.

#### THD:

**TSLED2:** 2.43% at 120V, 2.79% at 277V

**TSLED4:** 2.14% at 120V, 2.7% at 277V

#### Power Factor:

**TSLED2:** 99.8% at 120V, 96.3% at 277V

**TSLED4:** 99.8% at 120V, 96.7% at 277V

#### Surge Protection

Ringwave LN: 2.5 kV/LN-GND :2.5 kV

#### Battery Backup Light Loss Factor:

**TSLED2:**

25W: 0.16

20W: 0.20

15W: 0.26

**TSLED4:**

50W: 0.08

40W: 0.10

30W: 0.13

Note: All values are typical (tolerance +/- 10%)

### WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud-enabled products offer integrated network lighting control for a truly wireless solution that allows you to control RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and commercial applications. Each device can then communicate with other devices in the mesh network. With two Lightcloud systems to choose from, it's easy to implement controls within any application.

DLC system - N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)

Learn more at [www.lightcloud.com](http://www.lightcloud.com)

Lightcloud Blue (/LCB)

- Utilizes Bluetooth Mesh, eliminating the need for a Gateway or Hub.
- Ideal for applications that need basic wireless control such as ON/OFF, dimming, color tuning, Schedules, and SmartShift.
- Download the Lightcloud Blue mobile app for iOS or Android devices.

Lightcloud Enterprise (/LC)

- Utilizes a secure cellular and Zigbee mesh network that requires a Gateway or Hub (sold separately).
- Offers premium features like remote commissioning, demand response, BACnet integration, and more.
- Download the Lightcloud Enterprise mobile app for iOS or Android devices

# TSLED Field-Adjustable Stairwell Light



## TECHNICAL SPECIFICATIONS

### ULTRASONIC SENSOR

Features: (US & US/LCB)

- Photocell supported.
- Suitable for stairwell applications

Technical Data:

Ultrasound information

- Frequency: 40KHZ  $\pm$ 1HZ
- Installation Height:  $\leq$ 3.7m /12.13ft
- Detection Distance(Radius) for US: 3.5m/11.48ft Max. Level: $\geq$ 9.5m/31.16ft
- Detection Distance(Radius) for US/LCB:  $\varnothing$ 8m/26.24ft Max.

Electrical Specifications::

- Input Range: 12-15VDC.  $<$ 100mV
- Operating Current (US):  $<$ 50mA
- Operating Current (US/LCB): 40-50mA
- Output Control: 0-10V
- Working Temp: -20°C-+60°C
- Connection: Yellow Lin Pink GND Blue DIN

Sensor Parameter:

- Warm-up Period: About 10S
- Control Device (US): Remote control: MSR1
- Control Device (US/LCB): Lightcloud Blue App
- Detection Area (US): 10%/50%/5%/100%
- Detection Area (US/LCB): 100%
- Holdtime (US): 5s/30s/1min/3min/5min/10min/20min/30min
- Holdtime (US/LCB): 1min - 240Min
- Daylight Threshold (US): 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
- Daylight Threshold (US/LCB): 150Lux - 1500Lux
- Standby Period (US): 0s/10s/30s/1min/5min/10min/30min/+ $\infty$
- Standby Dimming Level (US): 10%/ 20%/ 30%/ 50%
- Dimming Function (US/LCB): Manual Mode (1-100%)

Factory Setting(US):

- Detection Area - 100%
- Holdtime - 20 mins
- Daylight Threshold - disable
- Standby Period - 1 min
- Standby Dimming Level - 20%

Factory Setting(US/LCB):

- Detection Area - 100%
- Holdtime - 5S
- Daylight Threshold - disable

### OTHER


#### Warranty

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

#### Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

## ACCESSORIES

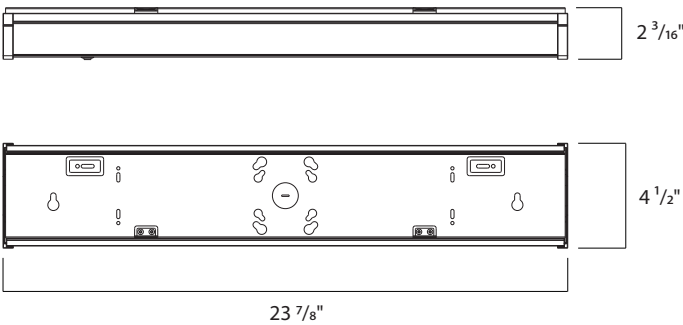
IMAGE	SKU#	UPC	DESCRIPTION
	TSLED45B	192552045230	TSLED 45° ANGLE BRACKET 2 PC

# TSLED Field-Adjustable Stairwell Light

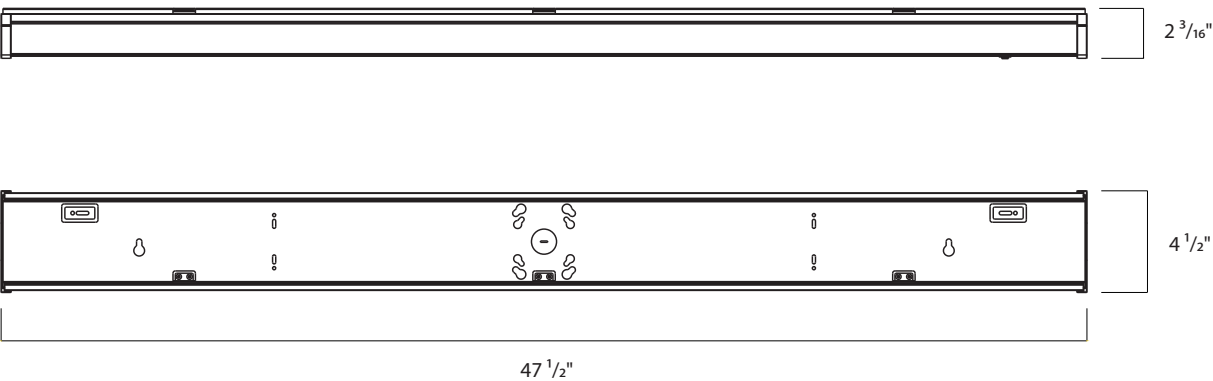


## DIMENSIONS

### TSLED2



### TSLED4



MODEL#	WEIGHTS			
	NO OPTION	W/BATTERY BACKUP	W/ULTRASONIC SENSOR	W/ULTRASONIC SENSOR +LCB
TSLED2	4.13 lbs	4.67 lbs	4.27 lbs	4.40 lbs
TSLED4	6.95 lbs	6.81 lbs	6.40 lbs	7.21 lbs

## ORDERING MATRIX

### TSLED Field-Adjustable Stairwell Light

Family	Wattages	Color Temperature		Finish		Driver	Controls		Battery Backup	
TSLED										
2	25/20/15W	BLANK	3500/4000/5000K	BLANK	White	BLANK	120-277V,	BLANK	BLANK	No Option
4	50/40/30W		CCT Adjustable			0-10V Dimming	BLANK	No Option	/E	Battery Backup
							/LC	Lightcloud		
							/LCB	Lightcloud Blue		
							/US	Ultrasonic Sensor & Bi-Level Operation		
							/LCBS/US	Lightcloud Blue Ultrasonic Sensor		