TSLED Field-Adjustable Stairwell Light

RAB®

TSLED2

TSLED4

PROJECT:

DATE:

TYPE:

PREPARED BY:

5 YEAR NO-COMPROMISE WARRANTY

DLC LISTED PREMIUM™

UL CERTIFIED

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

Field-Adjustable, Stairwell Light

0-10V | **100,000 HOURS** | **POWERED BY LIGHTCLOUD** | **FIELD ADJUSTABLE** | **DAMP RATED** | **Lightcloud** LIGHTCLOUD BLUE

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%)

ULTRASONIC SENSOR

Features: (US & US/LCB)

- Photocell supported
- Suitable for stairwell applications

Ultrasound information:

- Frequency: 40KHz ±1Hz
- Installation Height: ≤3.7 m /12.13 ft
- Detection Distance(Radius) for US: 3.5 m/11.48 ft Max. Level:≥9.5 m/31.16 ft
- Detection Distance(Radius) for US/LCB: Ø8m/26.24 ft 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

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TECHNICAL SPECIFICATIONS

ULTRASONIC SENSOR (CONTINUE)

Adjustable Settings:

Settings for Lightcloud Blue sensors can be adjusted using the mobile app. All other sensors will require MSR1 Remote to adjust the following sensor settings:

Sensor Parameter:

- Warm-up Period: About 105
- 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/+∞
- 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.

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

TSLED Field-Adjustable Stairwell Light

RAB®

WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud products offer integrated network lighting control for a truly wireless solution that allows you to manage 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 communicate with other devices in the mesh network. With two Lightcloud systems to choose from, it's easy to implement controls anywhere.
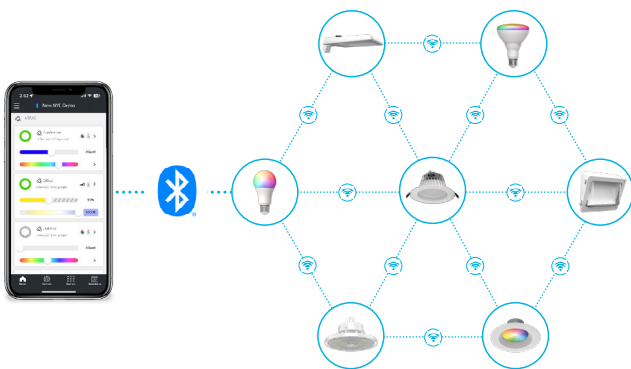
Learn more about Lightcloud wireless networked lighting controls.

Design Lights Consortium Network Lighting Controls:
- Interior Applications: N1XMLOEATB
- Exterior Applications: NHCZ2BIA17L

Lightcloud®

- 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
- Add the XDIM/BRIDGE/LCB and LCGATEWAY to adopt premium Lightcloud Enterprise features

SIMPLE SETUP

❶ Download the app.

App Store

GET IT ON Google Play

❷ Connect product to power.

❸ Pair product to app.

❹ Enjoy!

Learn more about Lightcloud Blue. Visit the Lightcloud Blue Resources page for more information on how to use the system.

Lightcloud®

- 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

Internet | Lightcloud Servers | Cell Tower | Gateway

SIMPLE SETUP

❶ Download the app.

App Store

GET IT ON Google Play

❷ Complete the startup document.

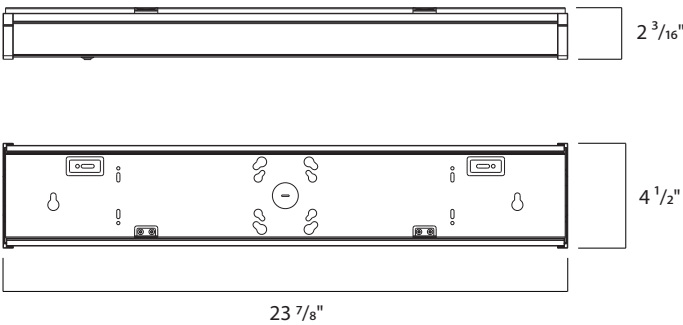❸ Connect product to power.

❹ Contact RAB for Remote Commissioning.

❺ Enjoy!

Learn more about Lightcloud Enterprise. Visit the Lightcloud Enterprise Resources page for more information on how to use the system.

TSLED Field-Adjustable Stairwell Light

RAB
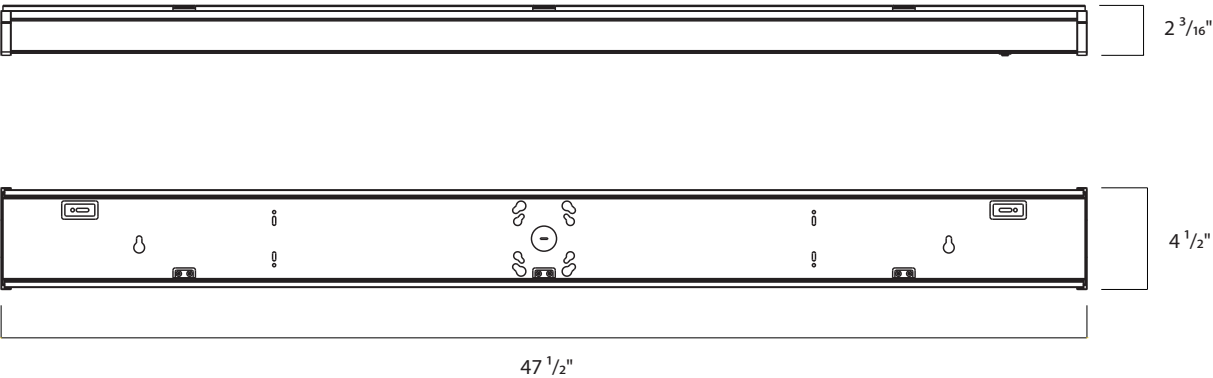
DIMENSIONS

TSLED2

2 ³/₁₆"

4 ¹/₂"

23 ⁷/₈"

TSLED4

2 ³/₁₆"

4 ¹/₂"

47 ¹/₂"

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

ACCESSORIES

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

ORDERING MATRIX

TSLED Field-Adjustable Stairwell Light

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