# ALEDS2TNW/WS2




| | |
|---|---|
| **Project:** | **Type:** |
| **Prepared By:** | **Date:** |

### Driver Info

| | |
|---|---|
| Type | Constant Current |
| 120V | 0.67A |
| 208V | 0.40A |
| 240V | 0.34A |
| 277V | 0.30A |
| Input Watts | 40.6/57.7/81.4W |

### LED Info

| | |
|---|---|
| Watts | 80W |
| Color Temp | 4000K (Neutral) |
| Color Accuracy | 82 CRI |
| L70 Lifespan | 100,000 Hours |
| Lumens | 5746/7911/10637 lm |
| Efficacy | 141.5/137.1/130.7 lm/W |

## Technical Specifications

### Field Adjustability

**Field Adjustable (Wattage):**
Field adjustable light output in 3 discrete steps:
Small Housing: 80W/60W/40W (factory default 80W)

### Compliance

**UL Listed:**
Suitable for wet locations

**IP Rating:**
Ingress protection rating of IP66 for dust and water

**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.
DLC Product Code: S-953WEZ

### LED Characteristics

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

**Color Consistency:**
7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

**Color Stability:**
LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

**Color Uniformity:**
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

### Electrical

**Driver:**
40W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.34A, 208V: 0.20A, 240V: 0.17A, 277V: 0.15A

60W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.50A, 208V: 0.30A, 240V: 0.25A, 277V: 0.22A

80W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.67A, 208V: 0.40A, 240V: 0.34A, 277V: 0.30A

**Dimming Driver:**
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

**THD:**
1.98% at 120V, 6.99% at 277V

**Power Factor:**
99.9% at 120V, 96.4% at 277V

**Surge Protection:**
Line to Line: 10kV
Line to Ground: 6kV

### Performance

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

**Wattage Equivalency:**
Equivalent to 250W Metal Halide

### Construction

**IES Classification:**
The Type II distribution is meant for lighting large areas, located by the roadside. Typically found on wide walkways, on ramps, entrace roadways and bike paths.

**Cold Weather Starting:**
The minimum starting temperature is -40°C (-40°F)


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## Technical Specifications (continued)

**Ambient Temperature :**
Max Power Temp Rating: 40°C (104°F)
Middle Power Temp Rating: 52°C (125°F)
Low Power Temp Rating: 58°C (137°F)

**Housing:**
Die-cast aluminum

**Mounting:**
Universal mounting arm compatible for hole spacing patterns from 1" to 3" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease.

**Reflector:**
Aluminum reflector with white polycarbonate

**Vibration Rating:**
3G vibration rating per ANSI C136.31

**Effective Projected Area:**
1 Fixture: 0.35
2 Fixtures at 90°: 0.54
2 Fixtures at 180°: 0.7
3 Fixtures at 90°: 0.9
4 Fixtures at 90°: 0.9

**Gaskets:**
High-temperature silicone gaskets

**Finish:**
Formulated for high durability and long-lasting color

**Green Technology:**
Mercury and UV free. RoHS-compliant components.

### Sensor Specifications

**Multi Level Motion Sensor:**
/WS2 sensor options use state-of-the-art surface mount technology (SMT), just like cellular phones and beepers. SMT gives you more reliability, greater RF immunity. This compact sensor that can fit neatly where others cannot. This sensor technology automatically affects the state of operation for lighting systems or individual luminaries based upon detecting the presence or absence of movement for both people as they exit/enter, or for the motion of moving vehicles within the sensors viewing area. The wide 180° viewing angle can detect movement along the entire side of a building with only one compact sensor. The hard lens is molded as part of the case, vandalproof, rainproof, bugproof and absolutely sealed. Sensor functions best when movement is across its detection pattern, not towards the sensor.

**Handheld Wireless Configuration Tool:**
Adjust settings using handheld wireless configuration tool (catalog# WSREM). Only available with 0-10V dimming driver options. Handheld wireless configuration tool available here.

### Optical

**Bug Rating:**
80W: B2 U0 G1
60W: B2 U0 G1
40W: B2 U0 G1

### Other

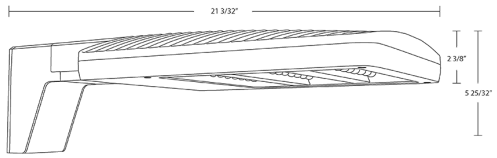
**Warranty:**
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of ten (10) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

**Buy American Act Compliance:**
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.


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# ALEDS2TNW/WS2

## Dimensions




## Features

- 0-10V dimmable standard
- IP66 Rated
- 100,000-Hour LED lifespan
- 10-Year, No-Compromise Warranty

## Ordering Matrix

| Family | Housing Size | Distribution | Mounting | Color Temp | Finish | Voltage | Options |
|---|---|---|---|---|---|---|---|
| ALED | S | 2T | | N | W | | /WS2 |
| | **M =** Medium (150W/90W/78W)<br>**L =** Large (260W/220W/170W)<br>**XL =** Extra Large (385W/345W/300W)<br>**S =** Small (80W/60W/40W) | **2T =** Type II<br>**3T =** Type III<br>**4T =** Type IV<br>**5T =** Type V<br>**AT =** Auto Dealership Optic | **Blank =** Universal Pole Mount<br>**SF =** Slipfitter<br>**WM =** Wall Mount | **Blank =** 5000K Cool<br>**Y =** 3000K Warm [1]<br>**N =** 4000K Neutral | **Blank =** Bronze<br>**W =** White<br>**B =** Black | **Blank =** 120-277V, 0-10V Dimming<br>**/480 =** 480V, 0-10V Dimming [2] | **Blank =** No Option<br>**/7PR =** 7 Pin Twistlock Receptacle<br>**/WS2 =** Wattstopper, 20ft lens<br>**/WS4 =** Wattstopper, 40ft lens [3] |

[1] *Dark sky approved in 3000K, available only on Small and Medium fixtures*
[2] *480V available only on Medium, Large & Extra Large fixtures*
[3] *Wattstopper option available only 0n Large & Extra Large fixtures*


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