ALEDMATSFB/WS2



Color: Black

Weight: 17.8 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	1.25A
208V	0.73A
240V	0.63A
277V	0.55A
Input Watts	76.1/91.8/148.4W

LED Info

Watts	150W
Color Temp	5000K (Cool)
Color Accuracy	85/85/84 CRI
L70 Lifespan	100,000 Hours
Lumens	10851/12913/19641 lm
Efficacy	142.5/140.7/132.3 lm/W

Technical Specifications

Field Adjustability

Field Adjustable (Wattage):
Field adjustable light output in 3 discrete steps: Medium Housing: 150W/90W/78W (factory default 150W)

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-8H5F0N

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:
78W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.65A, 208V: 0.38A, 240V: 0.33A, 277V: 0.29A

90W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.75A, 208V: 0.44A, 240V: 0.38A, 277V: 0.33A

150W: Constant Current, Non-Class 2, 120-277V, 50/60 Hz, 120V: 1.25A, 208V: 0.73A, 240V: 0.63A, 277V: 0.55A

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

THD:
4.17% at 120V, 8.76% at 277V

Power Factor:
100% at 120V, 95.8% 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 400W Metal Halide

Construction

IES Classification:
Car Dealership optics have a wide distribution with an intentional hot spot that helps to deliver eye-catching light to the front row of cars in a dealership lot while also minimizing "backspill" (light that is thrown back towards the street).

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: 54°C (130°F)

Housing:
Die-cast aluminum

Mounting:
2 3/8" slipfitter mount with stainless steel hardware

Tilt Increment:
Rotates in 5 degree increments

Lens:
Polycarbonate lens

Reflector:
Aluminum reflector with white polycarbonate

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

Effective Projected Area:
1 Fixture: 0.42
2 Fixtures at 90°: 0.66
2 Fixtures at 180°: 0.83
3 Fixtures at 90°: 1.08
4 Fixtures at 90°: 1.08

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:
150W: B3 U0 G2
90W: B2 U0 G1
78W: 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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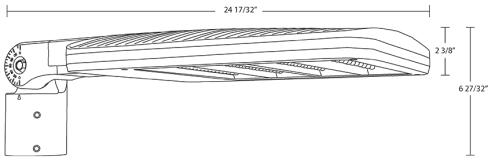
Dimensions



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