



UPC: 192552026994

Color: Clear

Weight: 0.0 lbs

Project:	Type:
Prepared By:	Date:

Technical Specifications

Performance

Description:

Field adjustable lumen output and CCT provide installation flexibility when replacing traditional HID. Integrated AUX port to add lamp-level sensor control.

Wattage Equivalency:

250W/320W/400W Metal Halide

Input Wattage:

63W/80W/100W

Lumens:

63W:
3000K @ 8,505lm; 4000K @ 9,135lm; 5000K @ 8,820lm
80W:
3000K @ 10,800lm; 4000K @ 11,600lm; 5000K @ 11,200lm
100W:
3000K @ 13,500lm; 4000K @ 14,500lm; 5000K @ 14,000lm

Efficacy:

63W/80W/100W:
3000K @ 135lm/W; 4000K @ 145lm/W; 5000K @ 140lm/W

L70 Lifespan:

50,000-Hour LED lifespan based on IES LM-70 results

Electrical

THD:

≤20%

Power Factor:

≥0.9

Dimmable:

Yes, via the Lightcloud Blue mobile app and devices. This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Input Voltage:

100-277V

Operating Frequency:

50/60Hz

Input Current @ 120V (mA):

859mA

Input Current @ 208V (mA):

512mA

Input Current @ 240V (mA):

452mA

Input Current @ 277V (mA):

361mA

Operating Temperature:

-22°F to 140°F (-30°C to 60°C)

Flicker:

<30%

Surge Protection:

4 kV

LED Characteristics

Color Temperature:

Field adjustable via dip switch 3000/4000/5000K

Color Accuracy (CRI):

≥80 CRI

R9 Value:

High color performance with R9 no less than 0

Color Consistency:

<6-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warranted to Shift no more than 200K in color temperature over a 5-year period

Technical Specifications (continued)

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.

Installation

Installation Method:

UL Type B, Ballast Bypass

Installation Orientation:

Vertical and Horizontal

Base Type:

EX39

Construction

Finish:

Clear

Shape:

Post top (sensor)

Endcap Material:

Metal

Enclosure Material:

Constructed from frosted, shatter-resistant polycarbonate

Compliance

Listings:

UL Listed, UL Classified

Environment:

Suitable for use in dry and damp environments

Fixture Rating:

Suitable for use in enclosed fixtures

IP Rating:

IP64

Certification Model Number:

H20041(HIDFA-100S-EX39-8CCT-BYP/5SP)

California Energy Commission (CEC) Status:

Lawful for Sales in California

RoHS:

Mercury and UV free. RoHS-compliant components.

FCC:

Complies with Part 15B of the FCC Rules

DLC Listed:

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at designlights.org to confirm the qualification status of a specific SKU prior to specification or purchase.

Other

Compatible Products:

Add the Lightcloud Blue 5-Pin Plug-in Controller with optional sensor to connect to the Lightcloud Blue Bluetooth Mesh Wireless Network Lighting Control System. Learn more about Lightcloud Blue.

Accessories:

CONTROL/W/AUX/5SP/LCB
Lightcloud Blue 5-Pin Plug-in Controller
CONTROL/W/AUX/5SP/LCBS
Lightcloud Blue 5-Pin Plug-in Controller with PIR Sensor
CONTROL/W/AUX/5SP/LCBS/MVS
Lightcloud Blue 5-Pin Plug-in Controller with MVS Sensor

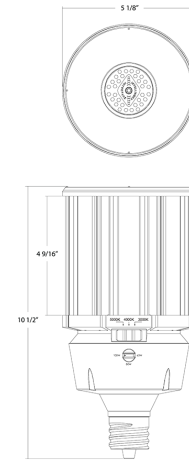
5-Year, No-Compromise Warranty:

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.

Case and Pallet Dimensions

	QTY	LENGTH (in)	WIDTH (in)	HEIGHT (in)
CASE	6	17.32	12.6	12
PALLET	7	48	40	47.34

Dimension



Features

- Replaces traditional metal halide or high pressure sodium HID lamp
- Adjustable wattage and CCT allows for in-field customization
- Integral driver enables lamp to be wired directly to line voltage without need for an external driver or ballast
- Rated for use in enclosed fixtures in dry or damp locations

Ordering Matrix

Family	Wattage	Base Type	CRI/Color Temp	Installation Type	Sensor
HIDFA	100S	EX39	8CCT	BYP	/5SP

27S = 27/18/12W
36S = 36/27/18W
45S = 45/36/27W
54S = 54/45/36W
63S = 63/54/45W
80S = 89/63/54W
100S = 100/80/63W
120S = 120/100/80W
205S = 205/165/135W
 Vertical

EX39 = EX39
 Extended Mogul ¹
E26 = E26 Edison

8CCT = 80 CRI,
 3000/4000/5000K

BYP = Ballast Bypass

Blank = No Sensor
/5SP = 5-Pin
 Sensor Port

¹ 80S, 100S, and 120S only available with EX39 base