



Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current, Class 2	Watts	9W
120V	0.08A	Color Temp	2700/3000/3500/4000/5000K
208V	N/A	Color Accuracy	90 CRI
240V	N/A	L70 Lifespan	N/A
277V	N/A	Lumens	750 lm
Input Watts	9W	Efficacy	83

Technical Specifications

Performance

Product Type:

ORB Frameless Surface Mount

Description :

The ORB canless downlight boasts a fully luminous surface that provides 180° of smooth, diffused light.

Wattage Equivalency:

40W Incandescent

Input Wattage:

9W

Lumens:

- 745lm @ 2700K;
- 780lm @ 3000K;
- 817lm @ 3500K;
- 828lm @ 4000K;
- 817lm @ 5000K

Efficacy:

- 83lm/W @ 2700K;
- 88lm/W @ 3000K;
- 93lm/W @ 3500K;
- 94lm/W @ 4000K;
- 91lm/W @ 5000K

L70 Lifespan:

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

Electrical

Driver:

Constant Current, Class 2, 60 Hz, 120V, 120V: 0.08A

THD:

≤20%

Power Factor:

≥0.9

Dimmable:

Yes, dimmable down to 10% on compatible TRIAC/ELV dimming systems. See Dimmer Compatibility List.

Input Voltage:

120V

Operating Frequency:

60 Hz

Input Current @ 120V (mA):

82mA

Operating Temperature:

-4°F to 104°F (-20°C to 40°C)

Flicker:

≤30%

LED Characteristics

Beam Angle:

110°

Color Temperature:

Field adjustable via dip switch
2700/3000/3500/4000/5000K

Color Accuracy (CRI):

90 CRI

R9 Value:

High color performance with R9 greater than 50

Color Consistency:

<4-step (2700K & 5000K); <7-step (3000K/3500K/4000K) 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 Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Technical Specifications (continued)

Installation

Remote Driver/Junction Box:

Die formed metal driver / junction box with captive hinged junction box cover. Listed for Maximum of (4) 12AWG through branch circuit conductor suitable for 90°C permitted in box. Easy to wire in 2in/2out (plus ground) applications. (4) conduit pry-outs. (3) quick snap-in connectors for quick and reliable line voltage connections. Integral mounting facilitates direct mounting to building structure or mounting frame.

Mounting:

Recessed

Construction

Size:

4"

Shape:

Round

Finish:

White

Enclosure Material:

Plastic

Trim Style:

Smooth

Lens Finish:

Frosted

Lens:

Polycarbonate light diffuser distributes light evenly and smoothly for general lighting applications

Air Tight:

Housing certified Air Tight as per ASTM-E283

Compliance

Trade Agreements Act Compliant:

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

Listings:

UL Listed

Environment:

Suitable for use indoors and outdoors in dry, damp, or wet environments.

IC Rated:

Suitable for direct contact with insulation. Type IC inherently protected, suitable for direct contact to air permeable insulation and cULus listed for damp locations. Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013.

Energy Star Approved:

No

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.

Certification Model Number:

DLS0182(ORB4)

California Title 20 Compliant:

No

California Title 24 JA8 Compliant:

Can be used to conform with the requirements of California Title 24 Part 6.

California Energy Commission (CEC) Status:

Lawful for Sales in California

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.

RoHS:

Mercury and UV free. RoHS-compliant components.

FCC:

Complies with Part 15 of the FCC Rules

Other

Compatible Accessories:

[DLPLATE/WFR4/NB/CL](#)

4" Mounting plate with nailer bar and drywall collar

[EXTCBL-FA-6](#)

6' Extension cable

[EXTCBL-FA-12](#)

12' Extension cable

[EXTCBL-FA-20](#)

20' Extension cable

[DRI-21-EMGR-DC-D10](#)

Emergency Driver T20

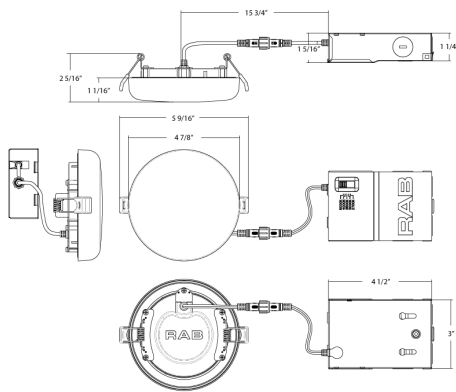
[DRI-EMB-15S-LV](#)

2-n-1 Driver + Battery Backup

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.

Dimensions



Features

- 180° Fully luminous, canless downlight that provides smooth, evenly distributed light
- 5 Selectable color temperatures (2700/3000/3500/4000/5000K)
- Remote driver allows for flexible installation; no housing required. Air Tight and IC Rated
- 120V 60Hz driver with 4 1/2" knockouts, dimmable down to 10% on TRIAC/ELV dimmers
- 90CRI, UL Listed suitable for wet locations and 5 Year No-Compromise Warranty

Ordering Matrix

Family	Size/Wattage	Shape	CRI/Color Temp	Driver	Finish
ORB	4				
	4 = 4", 9W 6 = 6", 13W	Blank = Round	Blank = 90 CRI, 2700/3000/3500/4000/5000K CCT Adjustable	Blank = 120V, TRIAC/ELV	Blank = White