



Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current, Class A	Watts	31/25/17W
120V	0.30A	Color Temp	2700/3000/3500/4000/5000K
208V	N/A	Color Accuracy	90 CRI
240V	N/A	L70 Lifespan	50,000 Hours
277V	0.13A	Lumens	3500/2700/1800 lm
Input Watts	31/25/17W	Efficacy	113/108/106 lm/W

Technical Specifications

Performance

Product Type:

Commercial Downlight

Description:

The CR commercial downlight offers best-in-class flexibility by adding universal dimming, which allows for both TRIAC & 0-10V dimming, making it a great choice for residential & commercial installations.

Wattage Equivalency:

75W CFL

Input Wattage:

31/25/17W

Efficacy:

113/108/106lm/W

L70 Lifespan:

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

Electrical

Driver:

Constant Current, Class A 120-277V 50/60 Hz; 120V: 295mA; 277V: 128mA

THD:

≤20%

Power Factor:

≥0.9

Dimmable:

Yes, dimmable down to 10% on compatible TRIAC/ELV and 0-10V dimming systems. See Dimmer Compatibility List.

Input Voltage:

120-277V

Operating Frequency:

50/60Hz

Operating Temperature:

-4°F to 104°F (-20 to 40°C)

Flicker:

≤30%

Battery Backup:

Integrated, quick connect battery backup system - easy to wire, no separate bulk battery

Emergency Operation:

90 minutes

Battery Recharge Time:

24 hours

LED Characteristics

Beam Angle:

85°±10°

Color Temperature:

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

Color Tuning:

No

Color Accuracy (CRI):

90 CRI

Natural Spectrum:

No

R9 Value:

High color performance with R9 greater than 50

Color Consistency:

<4-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

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

Integrated Driver:

Driver is integrated on top of the light fixture and connects to junction box (not included) using the provided MC Whip cable.

Mounting:

Stainless steel spring action clips allow for both easy direct installation from 1/2" to 2" ceiling thicknesses and field accessibility below the ceiling for service or replacement.

Installation Types:

Designed for remodel or direct mounting in the ceiling, or can be retrofitted into existing commercial downlight housings.

Construction

Size:

8"

Shape:

Round

Finish:

White

Enclosure Material:

Made from spun aluminum which maximizes passive cooling to ensure long lifespan

Trim Style:

Spun aluminum trim with smooth splay reflector

Lens Finish:

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

Lens:

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

Compliance

Listings:

None

ETL Listed:

This product has been tested by Intertek and found in compliance with accepted national standards.

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.

Air Tight:

Housing certified Air Tight as per ASTM E283

Energy Star Approved:

This product is ENERGY STAR® Version 2.2 Certified

Certification Model Number:

DLC1020(CR8/E)

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

NEC Compliant:

Suitable for use in closets. Compliant with NEC Sec. 410.16 (A)(1) and 410.16 (C3).

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

Trade Agreements Act Compliant:

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

Other

Compatible Accessories:

DL8-10GOOF/R/P/CRLEDFA
8"-10" Goof ring white round

8" Mounting frame DLPLATE/C3468R/NB
3", 4", 6", 8" Mounting plate w/nailer bar

DLPLATE/WFR3468/NB
3", 4", 6", 8" Mounting plate w/nailed bar

DRI-21-EMGR-DC-D10
Emergency driver T20

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.

Technical drawings of three different lighting fixture models with their dimensions:

- Top Model:** A circular fixture with a diameter of 9 7/16". It features a central lens and a mounting bracket. The height of the mounting bracket is 3 1/8".
- Bottom Left Model:** A trapezoidal fixture with a top width of 9 7/16" and a bottom width of 4 7/16". It has a mounting bracket with a height of 4 7/16".
- Bottom Right Model:** A circular fixture with a diameter of 9 7/16". It features a central lens and a mounting bracket. The height of the mounting bracket is 5 1/4".

Universal dimming technology allows for both 120V TRIAC/ELV dimming and 0-10V dimming in 1 SKU for incredible design flexibility

3 selectable brightness levels & 5 selectable CCTs
(2700/3000/3500/4000/5000K)

Suitable for new construction & remodel installations

Deep regress lens for optimal glare control

Multiple accessories available, including color trims and new construction mounting plates

Family	Size/Wattage	Shape	CRI/Color Temp	Driver	Finish	Trim	Battery Backup
CR	8						/E
	4 = 4", 10/8/6W 6 = 6", 21/17/10W 8 = 8", 30/24/16W 10 = 10", 37/30/24W	Blank = Round	Blank = 90 CRI, 2700/3000/3500/4000/5000K CCT Adjustable	Blank = 120-277V, 0-10V + TRIAC/ELV	Blank = White Cone, White Flange	Blank = Smooth	/E = Battery Backup