# CR Field-Adjustable Commercial Downlights w/Universal Dimming

**RAB®**

4"

6"

8"

10"

PROJECT:

DATE:

TYPE:

PREPARED BY:

NO COMPROMISE 5 YEAR WARRANTY | energy ENERGY STAR | CAN BE USED TO COMPLY WITH 2022 TITLE 24 PART 6 HIGH EFFICACY LED LIGHT SOURCE REQUIREMENTS | UL LISTED | CLASSIFIED UL

## Field-Adjustable Power and CCT

UNIVERSAL DIMMING | 120-227V | FIELD ADJUSTABLE | 90 CRI | IC RATED | 50,000 HOURS | WET RATED | AIRTIGHT | FCC LISTED | RoHS

## KEY FEATURES

- Universal dimming 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

## PERFORMANCE

| Catalog Number | Size | Trim Style | Wattage Equivalency | Input Wattage | Lumens | Efficacy | Dim Type | Input Voltage | Beam Angle | Color Temperature | CRI | L70 Lifespan | Environment | Energy Star ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR4 | 4" | Smooth | 23W CFL | 10/8/6W | 600/800/1000W | 100 lm/W | 0-10V + TRIAC/ELV | 0-10V + TRIAC/ELV | 85°+/-10% | Field adjustable viadip switch 2700/3000/3500/5000k | 90 CRI | 50,000 Hrs | Wet | 3554272 |
| CR6 | 6" | Smooth | 52W CFL | 21/17/10W | 1,000/1,800/2,300 lm | 110 lm/W | | | | | | | | 3554276 |
| CR8 | 8" | Smooth | 75W CFL | 30/24/16W | 1,800/2,700/3,400 lm | 113 lm/W | | | | | | | | 3554279 |
| CR10 | 10" | Smooth | 100W CFL | 37/30/24W | 2,800/3,500/4,200 lm | 114 lm/W | | | | | | | | 3554280 |

*Nominal values*

## Commercial Downlight 4-inch

### CR4

| CCT (K) | 2700K | | | 3000K | | | 3500K | | | 4000K | | | 5000K | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input Wattage (W) | 6W | 8W | 10W | 6W | 8W | 10W | 6W | 8W | 10W | 6W | 8W | 10W | 6W | 8W | 10W |
| Lumens (lm) | 600 lm | 835 lm | 1,048 lm | 653 lm | 859 lm | 1,082 lm | 669 lm | 859 lm | 1,116 lm | 680 lm | 899 lm | 1,138 lm | 693 lm | 909 lm | 1,143 lm |
| Efficacy (lm/W) | 109 lm/W | 108 lm/W | 105 lm/W | 113 lm/W | 112 lm/W | 110 lm/W | 117 lm/W | 116 lm/W | 115 lm/W | 119 lm/W | 118 lm/W | 117 lm/W | 119 lm/W | 117 lm/W | 115 lm/W |
| Equivalency (W) | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL | 23W CFL |

## Commercial Downlight 6-inch

### CR6

| CCT (K) | 2700K | | | 3000K | | | 3500K | | | 4000K | | | 5000K | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input Wattage (W) | 10W | 17W | 21W | 10W | 17W | 21W | 10W | 17W | 21W | 10W | 17W | 21W | 10W | 17W | 21W |
| Lumens (lm) | 1,069 lm | 1,855 lm | 2,511 lm | 1,093 lm | 1,912 lm | 2,596 lm | 1,117 lm | 1,963 lm | 2,677 lm | 1,134 lm | 2,002 lm | 2,732lm | 1,159 lm | 2,013 lm | 2,724 lm |
| Efficacy (lm/W) | 121 lm/W | 118 lm/W | 124 lm/W | 123 lm/W | 121 lm/W | 127 lm/W | 126 lm/W | 125 lm/W | 133 lm/W | 128 lm/W | 127 lm/W | 135 lm/W | 131 lm/W | 127 lm/W | 134 lm/W |
| Equivalency (W) | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL |

## PERFORMANCE (CONT.)

### Commercial Downlight 8-inch

CR8

| CCT (K) | 2700K | | | 3000K | | | 3500K | | | 4000K | | | 5000K | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input Wattage (W) | 16W | 24W | 30W | 16W | 24W | 30W | 16W | 24W | 30W | 16W | 24W | 30W | 16W | 24W | 30W |
| Lumens (lm) | 1,873 lm | 2,788 lm | 3,537 lm | 1,934 lm | 2,879 lm | 3,668 lm | 1,990 lm | 2,973 lm | 3,806 lm | 2,021 lm | 3,022 lm | 3,872 lm | 2,054 lm | 3,033 lm | 3,854 lm |
| Efficacy (lm/W) | 122 lm/W | 121 lm/W | 123 lm/W | 125 lm/W | 124 lm/W | 126 lm/W | 129 lm/W | 129 lm/W | 134 lm/W | 131 lm/W | 131 lm/W | 135 lm/W | 132 lm/W | 131 lm/W | 133 lm/W |
| Equivalency (W) | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL |

### Commercial Downlight 10-inch

CR10

| CCT (K) | 2700K | | | 3000K | | | 3500K | | | 4000K | | | 5000K | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Input Wattage (W) | 24W | 30W | 37W | 24W | 30W | 37W | 24W | 30W | 37W | 24W | 30W | 37W | 24W | 30W | 37W |
| Lumens (lm) | 2,851 lm | 3,582 lm | 4,502 lm | 2,929 lm | 3,697 lm | 4,665 lm | 3,021 lm | 3,827 lm | 4,856 lm | 3,075 lm | 3,900 lm | 4,954 lm | 3,105 lm | 3,908 lm | 4,924 lm |
| Efficacy (lm/W) | 122 lm/W | 121 lm/W | 123 lm/W | 125 lm/W | 124 lm/W | 127 lm/W | 130 lm/W | 130 lm/W | 134 lm/W | 132 lm/W | 132 lm/W | 136 lm/W | 133 lm/W | 131 lm/W | 134 lm/W |
| Equivalency (W) | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL | 52W CFL |

## TECHNICAL SPECIFICATIONS

### CONSTRUCTION

**Product Type**
Commercial Downlight

**Size**
4", 6", 8" and 10"

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

**Shape**
Round

**Finish**
White - Standard fixture
Color trim accessories available *(Sold Separately)*

**Trim Style**
Smooth

**Beam Angle**
90° beam angle

**Lens Finish**
Polycarbonate light diffuser disributes light evenly and smoothly for general lighting applications

### 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.

### ELECTRICAL

**Dimmable**
Yes, dimmable down to 10% on compatible TRIAC/ELV and 0-10V dimming systems. *(See dimmer Compatibility list.)*

**Driver**
Constant Current, Class A, 50/60 Hz, 120V-277V, 120V: 0.11A, 277V: 0.04A

**THD**
≤20%

**Power Factor**
≥0.9

**Input Voltage**
120-277V

**Operating Frequency**
50/60Hz

**Operating Temperature**
-4°F to 104°F *(-20℃ to 40℃)*

**Flicker**
≤30%

## TECHNICAL SPECIFICATIONS (CONT)

### OTHER

**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.

**Note**
All values are typical (tolerance +/- 10%)

### LED CHARACTERISTICS

**Beam Angle**
90+/-10%

**Color Temperature**
Field-Adjustable dip switch 3000/3500/4000/5000K

**Color Accuracy (CRI)**
>90 CRI

**R9 Value**
High color performance with R9 greater than or equal to 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

**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.

### COMPLIANCE

**Listing**
UL Listed. UL Classified

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

**Air-Tight**
Housing cerified Airtight per ASTM-E283

**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**
This product is ENERGY STAR® Version 1.0 Certified.

**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 & LM80 Testing**
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.
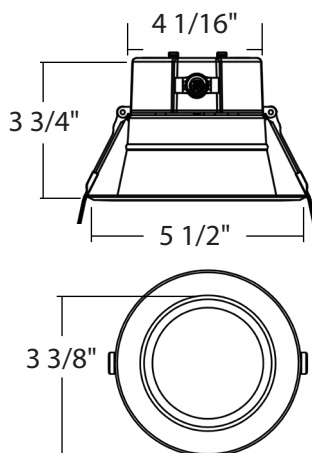
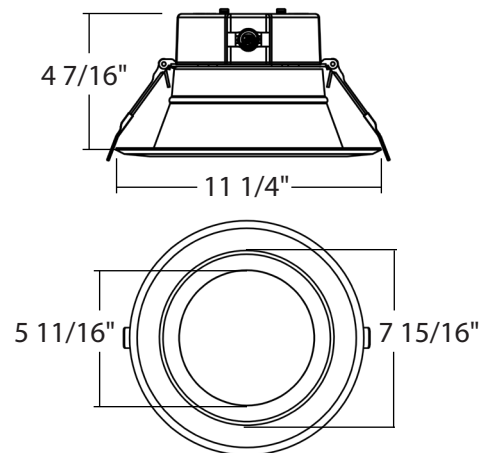**FCC**
Complies with Part 15 of the FCC Rules.

**RoHS**
Mercury and UV free. RoHS-compliant components.

## DIMENSIONS
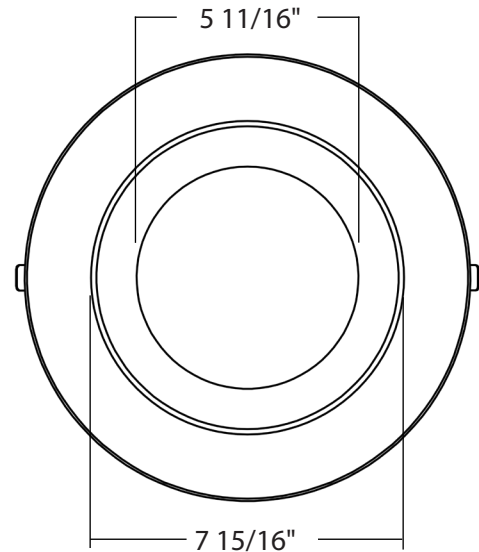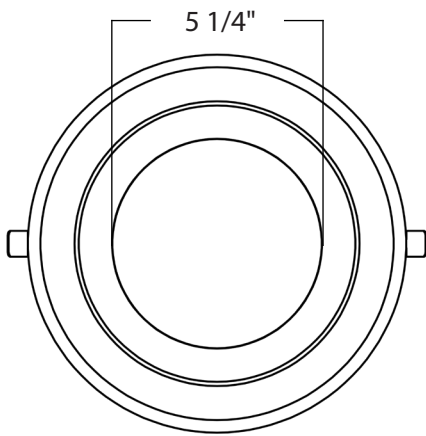
| 4 Inch | Weight |
|--------|--------|
| CR4 | 0.86 lb |



4 1/16"
3 3/4"
5 1/2"
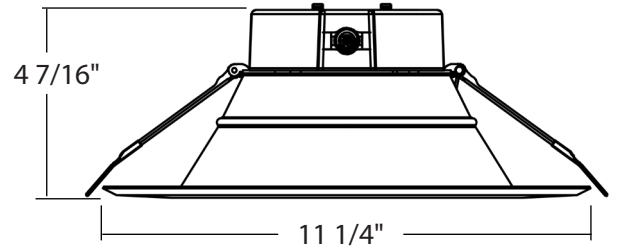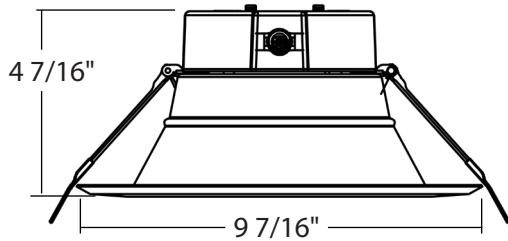3 3/8"

| 6 Inch | Weight |
|--------|--------|
| CR6 | 1.07 lbs |



4 7/16"
11 1/4"
5 11/16"   7 15/16"

## DIMENSIONS (CONT)

| 8 Inch | Weight |
|--------|--------|
| CR8 | 1.37 lbs |

| 10 Inch | Weight |
|---------|--------|
| CR10 | 1.61 lbs |



## OPTIONAL ACCESSORIES

### Goof Rings



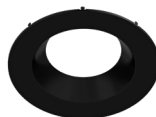| Catalog Number | UPC | Description |
|----------------|-----|-------------|
| DL4-6GOOF/R/P/CRLEDFA | 192552024600 | Commercial Downlight 4"-6" Goof Ring |
| DL6-8GOOF/R/P/CRLEDFA | 192552024617 | Commercial Downlight 6"-8" Goof Ring |
| DL8-10GOOF/R/P/CRLEDFA | 192552024624 | Commercial Downlight 8"-10" Goof Ring |
| DL8-12GOOF/R/P/CRLEDFA | 192552024631 | Commercial Downlight 8"-12" Goof Ring |
| DL10-12GOOF/R/P/CRLEDFA | 192552024648 | Commercial Downlight 10"-12" Goof Ring |

### 4" Trims



4" Round Brushed Nickel

4" Round Bronze

4" Round Black

| Catalog Number | UPC | Description |
|----------------|-----|-------------|
| DLTRIM/CRLEDFA4R-BS | 192552024051 | 4" Smooth Black Color Trim |
| DLTRIM/CRLEDFA4R-BNS | 192552024068 | 4" Smooth Brushed Nickel Color Trim |
| DLTRIM/CRLEDFA4R-BRS | 192552024075 | 4" Smooth Bronze Color Trim |

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## OPTIONAL ACCESSORIES (CONT)

### 6" Trims

6" Round
Brushed Nickel

6" Round
Bronze

6" Round
Black

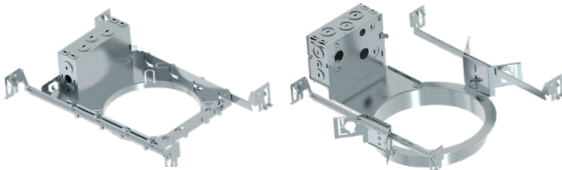| Catalog Number | UPC | Description |
|---|---|---|
| DLTRIM/CRLEDFA6R-BS | 192552024082 | 6" Smooth Black Color Trim |
| DLTRIM/CRLEDFA6R-BNS | 192552024099 | 6" Smooth Brushed Nickel Color Trim |
| DLTRIM/CRLEDFA6R-BRS | 192552024105 | 6" Smooth Bronze Color Trim |

### 8" Trims

8" Round
Brushed Nickel

8" Round
Bronze

8" Round
Black

| Catalog Number | UPC | Description |
|---|---|---|
| DLTRIM/CRLEDFA8R-BS | 192552024112 | 8" Smooth Black Color Trim |
| DLTRIM/CRLEDFA8R-BNS | 192552024129 | 8" Smooth Brushed Nickel Color Trim |
| DLTRIM/CRLEDFA8R-BRS | 192552024136 | 8" Smooth Bronze Color Trim |

### 10" Trims

10" Round
Brushed Nickel

10" Round
Bronze

10" Round
Black

| Catalog Number | UPC | Description |
|---|---|---|
| DLTRIM/CRLEDFA10R-BS | 192552024143 | 10" Smooth Black Color Trim |
| DLTRIM/CRLEDFA10R-BNS | 192552024150 | 10" Smooth Brushed Nickel Color Trim |
| DLTRIM/CRLEDFA10R-BRS | 192552024167 | 10" Smooth Bronze Color Trim |

### Mounting Frames (Rough-Ins)

6" Round

8" Round

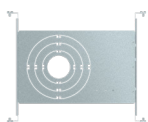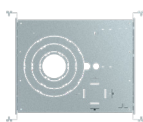| Catalog Number | UPC | Description |
|---|---|---|
| DLFRAME/C6R | 192552000697 | Commercial DL Frame 6" |
| DLFRAME/C8R | 192552000703 | Commercial DL Frame 8" |

### Mounting Plates

DLPLATE/C3468R/NB

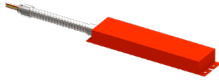DLPLATE/WFR4/NB/CL

DLPLATE/WFR6/NB/CL

DLPLATE/WFR3468/NB

DLPLATE/C3468R/NB

| Catalog Number | UPC | Description |
|---|---|---|
| DLPLATE/WFR3456 | 0192552025584 | DL ECO MOUNTING PLATE GREY FOR WAFER 3"/4"5"6" |
| DLPLATE/WFR4/NB/CL | 0192552036993 | MOUNTING PLATE FOR WAFER 4" W/ DRYWALL COLLAR & EXTENSION BAR |
| DLPLATE/WFR6/NB/CL | 0192552037006 | MOUNTING PLATE FOR WAFER 6" W/ DRYWALL COLLAR & EXTENSION BAR |
| DLPLATE/WFR3468/NB | 192552000673 | MOUNTING PLATE WITH NAILER BAR FOR 4" AND 6" |
| DLPLATE/C3468R/NB | 192552000680 | MOUNTING PLATE WITH NAILER BAR FOR 6", 8" AND 10" |

## OPTIONAL ACCESSORIES (CONT)

### Battery backup

DRI-21-EMGR-DC-D10

| Catalog Number | UPC | Description |
|---|---|---|
| DRI-21-EMGR-DC-D10 | 192552028264 | EMERGENCY DRIVER 100-277V 21W 0-10V DIM |

## ORDERING INFO

| Catalog Number | Model Number | UPC | Case Pack |
|---|---|---|---|
| CR4 | DLC1006(CR4) | 192552037785 | 4 |
| CR6 | DLC1007(CR6) | 192552037792 | 4 |
| CR8 | DLC1008(CR8) | 192552037808 | 4 |
| CR10 | DLC1009(CR10) | 192552037815 | 4 |

## ORDERING MATRIX

| Family | Size/Wattage | Shape | CRI/Color Temp | Voltage/Dimming | Trim | Finish |
|---|---|---|---|---|---|---|
| CR | | | | | | |

| | Size/Wattage | Shape | | CRI/Color Temp | Voltage/Dimming | | Trim | | Finish | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 4", 10/8/6W | Blank | Round | Blank | 90 CRI;Field-Adjustable 2700/3000/3500/4000/5000K | Blank | 120-277V; 0-10V+TRIAC/ELV | Blank | White | Blank | Smooth |
| 6 | 6", 21/17/10W | | | | | | | | | |
| 8 | 8", 30/24/16W | | | | | | | | | |
| 10 | 10", 37/30/24W | | | | | | | | | |

# CR Commercial Downlights
## Dimmer Compatibility List

CR4
CR6
CR8
CR10

*Visit [www.rablighting.com](www.rablighting.com) for periodic updates to this list or contact us at 888-722-1000 for questions or comments.*

| Number | Dimming | Dimmer Brand | Dimmer Cat NR | 1 Lamp | 2 Lamp | 3 Lamp | 4 Lamp | 5 Lamp | 6 Lamp | Dimming Level |
|--------|---------|--------------|---------------|--------|--------|--------|--------|--------|--------|---------------|
| | | **Dimmers** | | **Dimmer Compatibility** | | | | | | |
| 1 | 0-10V | LEVITON | DVTV | ● | ● | ● | ● | ● | ● | 10-100% |
| 2 | | LEVITON | IP710-LFZ | ● | ● | ● | ● | ● | ● | |
| 3 | | LUTRON | DVSTV-WH | ● | ● | ● | ● | ● | ● | |
| 4 | | COOPER | DF10PC1 | ● | ● | ● | ● | ● | ● | |
| 5 | Triac | LUTRON | MACL-153M | ● | ● | ● | ● | ● | ● | |
| 6 | | LUTRON | SCL-153P | ● | ● | ● | ● | ● | ● | |
| 7 | | LEVITON | Cat.NO.6674 | ● | ● | ● | ● | ● | ● | |
| 8 | | LUTRON | DVCL-153P | ● | ● | ● | ● | ● | ● | |
| 9 | | LEGRAND | RHCL453PTC | ● | ● | ● | ● | ● | ● | |
| 10 | | LEGRAND | DCL453PTCCCV6 | ● | ● | ● | ● | ● | ● | |
| 11 | | LEGRAND | HCL453PTCCCV6 | ● | ● | ● | ● | ● | ● | |
| 12 | | LUTRON | CTCL-153PDH-WH | ● | ● | ● | ● | ● | ● | |
| 13 | | LEVITON | R50-IPL06-10M | ● | ● | ● | ● | ● | ● | |
| 14 | | LUTRON | DVWCL-153PH-WH | ● | ● | ● | ● | ● | ● | |
| 15 | | RAB | XDIM | ● | ● | ● | ● | ● | ● | |

*Comment: 0-10V dimmer is for reference only, product is compatible with all 0-10V dimmers, no need to show in website*

● Good dimming　　◎ Chopping during dimming　　○ Flickering during dimming　　**X** Not compatible