

# Field-Adjustable CR Commercial Downlights



4", 6", 8", 10", Wattage and CCT Adjustable,  
TRIAC/ELV/0-10V Dimmable

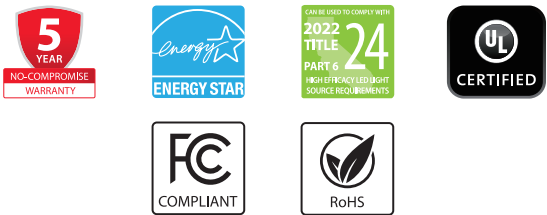


PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_



KEY FEATURES

- Universal dimming allows for both TRIAC/ELV and 0-10V dimming in 1 SKU for incredible 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	Color Temperature	Environment	Energy Star ID
CR4	4"	Smooth	23W CFL	10/8/6W	600/800/1000W	100 lm/W	0-10V + TRIAC/ELV	120-277V	Field adjustable viadip switch 2700/3000/3500/5000K	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

## PERFORMANCE (CONT.)

		Lumens (lm)			Efficacy (lm/W)			
Catalog Number	CCT (K)	6W	8W	10W	6W	8W	10W	Wattage Equivalency
CR4	2700K	637	835	1,048	109.5	107.9	105.3	23W CFL
	3000K	653	859	1,082	113.0	111.7	109.8	
	3500K	669	883	1,116	116.7	116.0	114.6	
	4000K	680	899	1,138	118.7	118.3	117.0	
	5000K	693	909	1,143	118.9	117.3	115.1	
Catalog Number	CCT (K)	10W	17W	21W	10W	17W	21W	Wattage Equivalency
CR6	2700K	1,069	1,855	2,511	120.9	118.1	123.7	52W CFL
	3000K	1,093	1,912	2,596	122.7	121.0	127.3	
	3500K	1,117	1,963	2,677	126.4	125.1	133.2	
	4000K	1,134	2,002	2,732	128.0	127.5	135.2	
	5000K	1,159	2,013	2,724	130.6	127.4	134.2	
Catalog Number	CCT (K)	16W	24W	30W	16W	24W	30W	Wattage Equivalency
CR8	2700K	1,873	2,788	3,537	122.4	120.7	122.8	75W CFL
	3000K	1,934	2,879	3,668	124.8	123.6	126.4	
	3500K	1,990	2,973	3,806	129.2	129.3	133.5	
	4000K	2,021	3,022	3,872	131.2	131.4	135.4	
	5000K	2,054	3,033	3,854	132.5	130.7	133.4	
Catalog Number	CCT (K)	24W	30W	37W	24W	30W	37W	Wattage Equivalency
CR10	2700K	2,851	3,582	4,502	121.8	120.6	123.0	100W CFL
	3000K	2,929	3,697	4,665	124.6	123.7	126.8	
	3500K	3,021	3,827	4,856	130.2	129.8	134.1	
	4000K	3,075	3,900	4,954	132.0	131.8	136.1	
	5000K	3,105	3,908	4,924	132.7	131.2	134.2	

## 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**

Spun aluminum trim with smooth splay reflector

**Beam Angle**

90° beam angle

**Lens Finish**

Polycarbonate light diffuser distributes 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.

### LED CHARACTERISTICS

**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 warranted 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.

### 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°C to 40°C)

**Flicker**

≤30%

### COMPLIANCE

**Listing**

UL Listed. UL Classified

**Environment**

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

**Air-Tight**

Housing certified 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.

TECHNICAL SPECIFICATIONS (CONT)

OTHER

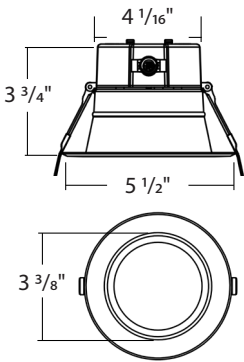
**Warranty**  
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

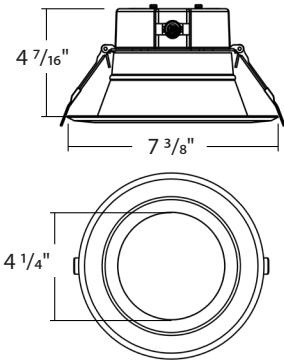
**Note**  
All values are typical (tolerance +/- 10%)

DIMENSIONS

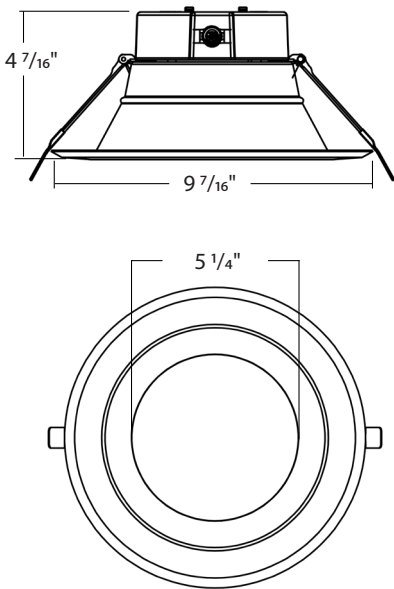
4 Inch	Weight
CR4	0.86 lb



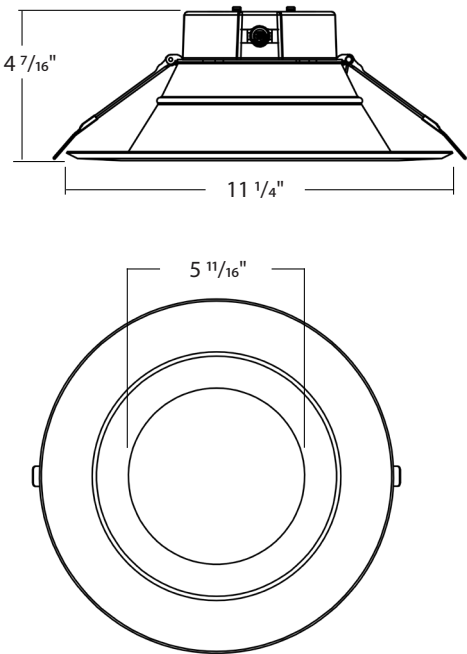
6 Inch	Weight
CR6	1.07 lbs



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



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
DLTRIM/CRLEDFA4R-HW	192552051071	4" Smooth Trim Haze Cone with White Flange

6" Trims



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
DLTRIM/CRLEDFA6R-HW	192552051088	6" Smooth Trim Haze Cone with White Flange

8" Trims



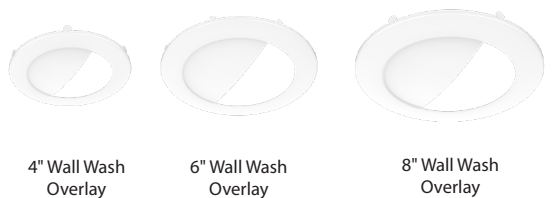
Catalog Number	UPC	Description
DLTRIM/CRLEDFA8R-BS	192552024112	8" Smooth Black Color Trim
DLTRIM/CRLEDFA8R-BNS	192552024129	8" Smooth Brushed Nickel Color Trim
DLTRIM/CRLEDFA8R-BRS	192552024136	8" Smooth Bronze Color Trim
DLTRIM/CRLEDFA8R-HW	192552051095	8" Smooth Trim Haze Cone with White Flange

10" Trims



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
DLTRIM/CRLEDFA10R-HW	192552051101	10" Smooth Trim Haze Cone with White Flange

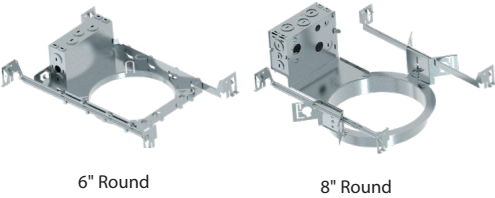
Wall Wash Trims



Catalog Number	UPC	Description
DLTRIM-4RW-WW	192552051156	4" Wall Wash Overlay
DLTRIM-6RW-WW	192552051163	6" Wall Wash Overlay
DLTRIM-8RW-WW	192552051170	8" Wall Wash Overlay

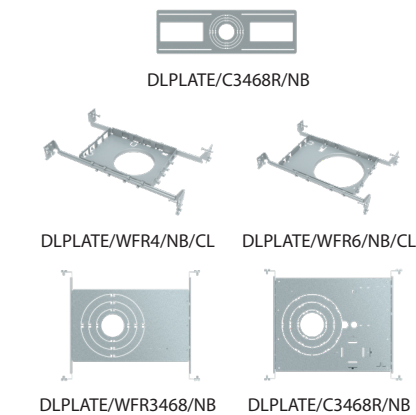
OPTIONAL ACCESSORIES (CONT)

Mounting Frames (Rough-Ins)



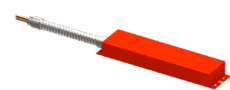
Catalog Number	UPC	Description
DLFRAME/C6R	192552000697	Commercial DL Frame 6"
DLFRAME/C8R	192552000703	Commercial DL Frame 8"

Mounting Plates



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/ DRY-WALL COLLAR & EXTENSION BAR
DLPLATE/WFR6/NB/CL	0192552037006	MOUNTING PLATE FOR WAFER 6" W/ DRY-WALL 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"

Battery backup



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						
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](http://www.rablighting.com) for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

		Dimmers		Dimmer Compatibility						Dimming Level
Number	Dimming	Dimmer Brand	Dimmer Cat NR	1 Lamp	2 Lamp	3 Lamp	4 Lamp	5 Lamp	6 Lamp	
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    ✕ Not compatible