Field-Adjustable Commercial Downlights



4"



6"



8"



10"

PROJECT:

DATE:

TYPE:

PREPARED BY:

Field-Adjustable Power and CCT

BLUETOOTH MESH* | FIELD ADJUSTABLE | 90 CRI | 50,000 HOURS | WET RATED | DIMMABLE | FCC LISTED | RoHS

*Select models

KEY FEATURES

- Mounts directly into ceiling, **no housing required**
- **Field-adjustable** "set and forget" color temperature
- **High-performance** LEDs for commercial applications
- **0-10V dimming** *(see Dimmer Compatibility List)*
- Meets **air-tight** requirements
- Suitable for **wet and damp** locations
- Replacement for traditional compact fluorescent recessed downlights

PERFORMANCE

Catalog Number	Size	Input Wattage	Lumens*	Efficacy*	Input Voltage	Color Temperature	CRI	L70 Lifespan
CRLEDFA-4R-12S-9CCT-UNV-WS	4"	7/9/12W	600/800/1,000lm	86/89/83lm/W	120-277V	Field-Adjustable dip switch 3000/3500/4000/5000K	90+	50,000 hr
CRLEDFA-6R-16S-9CCT-UNV-WS	6"	9/12/16W	800/1,100/1,500lm	89/92/94lm/W				
CRLEDFA-6R-24S-9CCT-UNV-WS	6"	15/19/24W	1,200/1,600/2,000lm	80/84/83lm/W				
CRLEDFA-8R-22S-9CCT-UNV-WS	8"	11/16/22W	1,000/1,500/2,000lm	91/94/91lm/W				
CRLEDFA-8R-33S-9CCT-UNV-WS	8"	25/29/33W	2,400/2,700/3,000lm	96/93/91lm/W				
CRLEDFA-10R-43S-9CCT-UNV-WS	10"	32/37/43W	3,000/3,500/4,000lm	94/95/93lm/W				
CR10/LCB	10"	43/37/32W	3000/3500/4000lm	94/95/93lm/W				
CR4/LCB	4"	12/9/7W	1000/800/600lm	83/89/86lm/W				
CR6HO/LCB	6"	24/19/15W	2000/1600/1200lm	83/84/80lm/W				
CR8HO/LCB	8"	33/29/25W	3000/2700/2400lm	91/93/96lm/W				
CR6/LCB	6“	16/12/9W	1500/1100/800lm	94/92/89lm/W				
CR8/LCB	8“	22/16/11W	2000/1500/1000lm	91/94/91lm/W				
CR6/LCB/E	6“	16/12/9W	1500/1100/800lm	94/92/89lm/W				
CR8/LCB/E	8“	22/16/11W	2000/1500/1000lm	91/94/91lm/W				

*Nominal values

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Field-Adjustable Commercial Downlights

PERFORMANCE (CONT.)

Commercial Downlight 4-inch

CRLEDFA-4R-12S-9CCT-UNV-WS
CR4/LCB

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	7W	9W	12W	7W	9W	12W	7W	9W	12W	7W	9W	12W
Lumens (lm)	600lm	800lm	1000lm	630lm	830lm	1040lm	630lm	830lm	1040lm	620lm	820lm	1020lm
Efficacy (Lm/W)	86lm/W	89lm/W	83lm/W	90lm/W	92lm/W	87lm/W	90lm/W	92lm/W	87lm/W	89lm/W	91lm/W	85lm/W
Equivalency (W)	8W CFL	11W CFL	14W CFL	8W CFL	11W CFL	14W CFL	8W CFL	11W CFL	14W CFL	8W CFL	11W CFL	14W CFL

Commercial Downlight 6-inch

CRLEDFA-6R-16S-9CCT-UNV-WS
CR6/LCB
CR6/LCB/E

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	9W	12W	16W	9W	12W	16W	9W	12W	16W	9W	12W	16W
Lumens (lm)	872lm	1128lm	1578lm	900lm	1170lm	1658lm	907lm	1180lm	1677lm	904lm	1167lm	1636lm
Efficacy (Lm/W)	105lm/W	105lm/W	101lm/W	109lm/W	109lm/W	106lm/W	110lm/W	111lm/W	108lm/W	110lm/W	109lm/W	105lm/W
Equivalency (W)	16W CFL	18W CFL	32W CFL	16W CFL	18W CFL	32W CFL	16W CFL	18W CFL	32W CFL	16W CFL	18W CFL	32W CFL

CRLEDFA-6R-24S-9CCT-UNV-WS
CR6HO/LCB

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	15W	19W	24W	15W	19W	24W	15W	19W	24W	15W	19W	24W
Lumens (lm)	1200lm	1600lm	2000lm	1240lm	1640lm	2060lm	1240lm	1640lm	2060lm	1220lm	1620lm	2030lm
Efficacy (Lm/W)	80lm/W	84lm/W	83lm/W	83lm/W	86lm/W	86lm/W	83lm/W	86lm/W	86lm/W	81lm/W	85lm/W	85lm/W
Equivalency (W)	15W CFL	23W CFL	27W CFL	15W CFL	23W CFL	27W CFL	15W CFL	23W CFL	27W CFL	15W CFL	23W CFL	27W CFL

Commercial Downlight 8-inch

CRLEDFA-8R-22S-9CCT-UNV-WS
CR8/LCB
CR8/LCB/E

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	11W	16W	22W	11W	16W	22W	11W	16W	22W	11W	16W	22W
Lumens (lm)	1134lm	1588lm	2154lm	1165lm	1652lm	2260lm	1171lm	1663lm	2277lm	1152lm	1619lm	2183lm
Efficacy (Lm/W)	108lm/W	104lm/W	99lm/W	112lm/W	109lm/W	105lm/W	112lm/W	110lm/W	108lm/W	110lm/W	107lm/W	101lm/W
Equivalency (W)	18W CFL	32W CFL	2X26W CFL	18W CFL	32W CFL	2X26W CFL	18W CFL	32W CFL	2X26W CFL	18W CFL	32W CFL	2X26W CFL

PERFORMANCE (CONT.)

Commercial Downlight 8-inch

CRLEDFA-8R-33S-9CCT-UNV-WS
CR8HO/LCB

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	25W	29W	33W	25W	29W	33W	25W	29W	33W	25W	29W	33W
Lumens (lm)	2400lm	2700lm	3000lm	2460lm	2750lm	3080lm	2460lm	3080lm	1040lm	2430lm	2720lm	3040lm
Efficacy (Lm/W)	96lm/W	93lm/W	91lm/W	98lm/W	95lm/W	93lm/W	98lm/W	95lm/W	93lm/W	97lm/W	94lm/W	92lm/W
Equivalency (W)	2X17W CFL	2X23W CFL	2X23W CFL	2X17W CFL	2X23W CFL	2X23W CFL	2X17W CFL	2X23W CFL	2X23W CFL	2X17W CFL	2X23W CFL	2X23W CFL

Commercial Downlight 10-inch

CRLEDFA-10R-43S-9CCT-UNV-WS
CR10/LCB

CCT (K)	3000K			3500K			4000K			5000K		
Input Wattage (W)	32W	37W	43W	32W	37W	43W	32W	37W	43W	32W	37W	43W
Lumens (lm)	3000lm	3500lm	4000lm	3080lm	3580lm	4100lm	3080lm	3580lm	4100lm	3040lm	3540lm	4050lm
Efficacy (Lm/W)	94lm/W	95lm/W	93lm/W	96lm/W	97lm/W	95lm/W	96lm/W	97lm/W	95lm/W	95lm/W	96lm/W	94lm/W
Equivalency (W)	2X23W CFL	11W CFL	14W CFL	2X23W CFL	11W CFL	14W CFL	2X23W CFL	11W CFL	14W CFL	2X23W CFL	11W CFL	14W CFL

TECHNICAL SPECIFICATIONS

LIGHTCLOUD® BLUE FEATURES*

Direct Connect
Use the Lightcloud Blue mobile app to connect to your lamps in minutes via Bluetooth Mesh; no Gateway or Hub required.

Mobile App Control
Use the Lightcloud Blue mobile app to configure features for On/Off Control, Dim Level, Color Temperature, Schedules, Scenes and more.

Scalable
Devices within 60 feet of each other can communicate within the Bluetooth Mesh network to manage a maximum of up to tens of thousands of devices per account.

LIGHTCLOUD® BLUE*

Gateway Required
No

Communication Protocol
Bluetooth Mesh

SmartShift
No

Range
Up to 60 feet between standard building materials. Building materials such as brick, concrete, and steel construction may require additional Lightcloud Blue devices to extend around an obstruction. Up to 200 feet clear line of sight

Spacing Criteria
Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network.

**Select models*

Factory Reset
Method 1: Delete from App
Open the app and access the device settings for the paired device. Be sure that the device is online and select 'Delete'. The device will flash on/off 5 times and return to full brightness.

Method 2: Manual
Press and hold down the button located at the top of the Controller for 10 seconds or until the downlight begins to flash on and off 3 times. The indicator light on the controller will turn red to confirm it has been reset and is ready to pair to the App.

CONSTRUCTION

Product Type
Commercial Downlight

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

Enclosure Material
Metal

Shape
Round

Finish
White

Trim Style
Smooth

Beam Angle
90°

Lens
Polycarbonate

TECHNICAL SPECIFICATIONS (CONT.)

ELECTRICAL

Dimmable
Yes, 0-10V dims down to 10% *(See Dimmer Compatibility List)*

Lightcloud Blue-enabled models are dimmable using the Lightcloud Blue mobile app and devices. This product will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Dimming Driver
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

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%

Emergency Operation*
90 minutes

Battery Recharge Time*
24 hours

Emergency Test Switch*
Integrated emergency test switch

INSTALLATION

Mounting
Recessed

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 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 in dry, damp, and wet environments.

Air-Tight
Airtight per ASTM-E283-04

IC Rated
Suitable for direct contact with insulation *(12S, 16S, 22S models only)*

Energy Star Approved
This product is ENERGY STAR® Version 2.2 Certified.

DLC Listed
No.

T20 Compliant
Not compliant

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.

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.

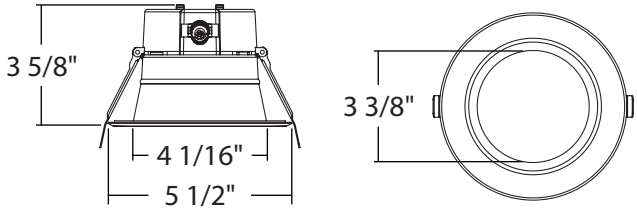
Note
All values are typical (tolerance +/- 10%)

**Select models*

Download the Lightcloud Blue app for free to get started!

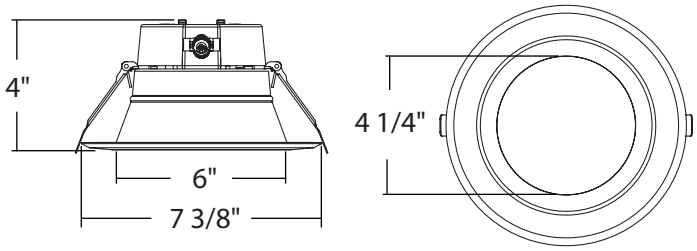
Download on the App Store | GET IT ON Google Play

DIMENSIONS



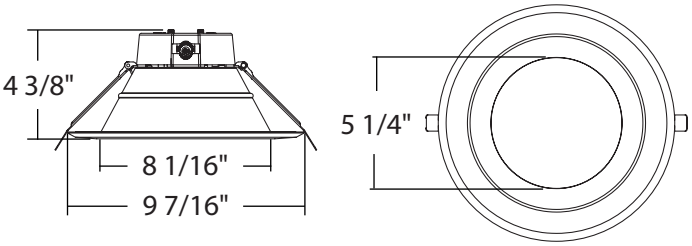
Trim-to-lens distance is 1 5/16“

4" Round	Weight
CRLEDFA-4R-12S-9CCT-UNV-WS	0.73 lb
CR4/LCB	



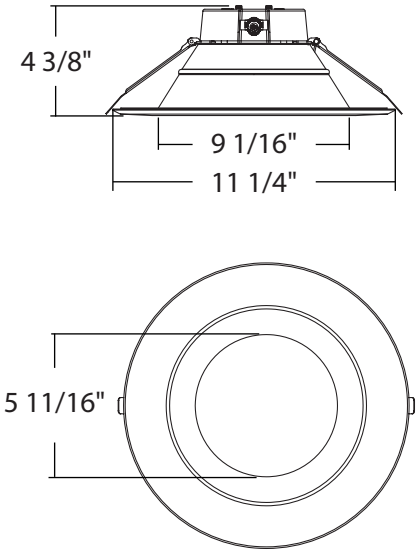
Trim-to-lens distance is 1 1/2“

6" Round	Weight
CRLEDFA-6R-16S-9CCT-UNV-WS	1.28 lbs
CRLEDFA-6R-24S-9CCT-UNV-WS	
CR6HO/LCB	
CR6/LCB	
CR6/LCB/E	5.56lbs



Trim-to-lens distance is 1 11/16“

8" Round	Weight
CRLEDFA-8R-22S-9CCT-UNV-WS	1.71 lbs
CRLEDFA-8R-33S-9CCT-UNV-WS	
CR8HO/LCB	
CR8/LCB	
CR8/LCB/E	5.95lbs



Trim-to-lens distance is 1 11/16“

10" Round	Weight
CRLEDFA-10R-43S-9CCT-UNV-WS	2.16 lbs
CR10/LCB	

OPTIONAL ACCESSORIES

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

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

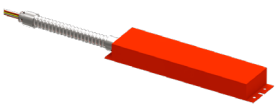
Catalog Number	UPC	Description
DLTRIM/CRLEDFA10R-BS	192552024143	10" Smooth Black Color Trim
DLTRIM/CRLEDFA10R-BNS	192552024150	10" Smooth Brushed Nickel Color Trim
DLTRIM/CRLEDFA10R-BRS	192552024167	10" Smooth Bronze Color Trim

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

Emergency Drivers



DRI-21



DRI-25

Catalog Number	UPC	Description
DRI-21-EMGR-DC-D10	192552028264	Emergency backup driver, only compatible with 12S, 16S, 22S, and 24S models.
DRI-25-EMGR-DC	019813519180	Emergency backup driver, compatible with all models.

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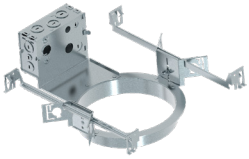
OPTIONAL ACCESSORIES (CONT.)

Mounting Frames (Rough-Ins)



6" Round



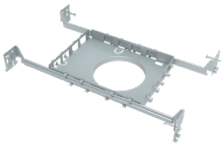
8" Round

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

Mounting Plates



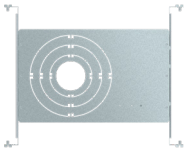
DLPLATE/C3468R/NB



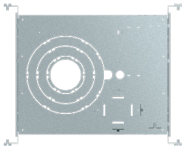
DLPLATE/WFR4/NB/CL



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/ 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"

ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
CRLEDFA-4R-12S-9CCT-UNV-WS	**DLC0054(CRLEDFA-4R-12S-9CCT-UNV-WS)**	192552013857	4
CRLEDFA-6R-16S-9CCT-UNV-WS	**DLC1001(CRLEDFA-6R-16S-9CCT-UNV-WS)**	192552026901	4
CRLEDFA-6R-24S-9CCT-UNV-WS	**DLC0055(CRLEDFA-6R-24S-9CCT-UNV-WS)**	192552013864	4
CRLEDFA-8R-22S-9CCT-UNV-WS	**DLC1002(CRLEDFA-8R-22S-9CCT-UNV-WS)**	192552026918	4
CRLEDFA-8R-33S-9CCT-UNV-WS	**DLC0056(CRLEDFA-8R-33S-9CCT-UNV-WS)**	192552013871	4
CRLEDFA-10R-43S-9CCT-UNV-WS	**DLC0057(CRLEDFA-10R-43S-9CCT-UNV-WS)**	192552013888	4
CR10/LCB	**DLC0057(CRLEDFA-10R-43S-9CCT-UNV-WS)**	192552013857	4

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ORDERING INFO (CONT.)

Catalog Number	Model Number	UPC	Case Pack
CR4/LCB	**DLC0054(CRLEDFA-4R-12S-9CCT-UNV-WS)**	192552013864	4
CR6HO/LCB	**DLC0055(CRLEDFA-6R-24S-9CCT-UNV-WS)**	192552013871	4
CR8HO/LCB	**DLC0056(CRLEDFA-8R-33S-9CCT-UNV-WS)**	192552013888	4
CR6/LCB	**DLC1001(CRLEDFA-6R-16S-9CCT-UNV-WS)**	192552026901	4
CR8/LCB	**DLC1002(CRLEDFA-8R-22S-9CCT-UNV-WS)**	192552026918	4
CR6/LCB/E	**DLC1003(CRLEDFA-6R-16S-9CCT-UNV-WS/E)**	192552027908	4
CR8/LCB/E	**DLC1004(CRLEDFA-8R-22S-9CCT-UNV-WS/E)**	192552027915	4

ORDERING MATRIX

Family		Size		Shape		Wattage		CRI/Color Temp		Voltage/Dimming	Finish	Trim	Battery Backup
CRLEDFA	-		-	R	-		-	9CCT	-	UNV	W	S	

4	4"	**R**	Round	**12S**	7/9/12W (4" only)	**9CCT**	>90CRI Field-Adjustable 3000/3500/4000/5000K	**UNV**	120V-277V 0-10V Dimming	**W**	White	**S**	Smooth	**Blank**	No Option
6	6"			**16S**	9/12/16W (6" only)									**/E**	Battery Backup
8	8"			**22S**	11/16/22W (8" only)										
10	10"			**24S**	15/19/24W (6" only)										
				33S	25/29/33W (8" only)										
				43S	32/37/43W (10" only)										

Lightcloud Blue-Enabled

Family	Size	Shape	CRI/Color Temp	Voltage/Dimming	Finish	Trim	Controls	Battery Backup
CR								

4	4", 7/9/12W	**Blank**	Round	**Blank**	>90CRI Field-Adjustable 3000/3500/4000/5000K	**Blank**	120-277V; 0-10V Dimming	**Blank**	White	**Blank**	Smooth	**/LCB**	Lightcloud Blue-Enabled	**Blank**	No Option
6	6", 9/12/16W													**/E**	Battery Backup
6HO	6", 15/19/24W														
8	8", 11/16/22W														
8HO	8", 25/29/33W														
10	10", 32/37/43W														

Note: Battery Backup only available on standard lumen 6" & 8"

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