

# CCT-Adjustable Recessed Retrofit & Gimbal



4" 8W Smooth



4" 8 and 10W Baffle



6" 8, 11 and 14W Smooth



6" 8, 11 and 14W Baffle



4" 8W Gimbal



6" 10 and 11W Gimbal

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

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

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

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



## KEY FEATURES

- Use to replace traditional halogen and incandescent light sources
- Durable metal construction: dent and scratch resistant
- 5 Color temperature selectable: **2700K, 3000K, 3500K, 4000K, and 5000K**
- Compatible with most standard recessed housings
- Color trims sold separately
- **TRIAC/ELV dimming** (see *Dimmer Compatibility List*)
- Suitable for **wet and damp** locations
- **50,000-Hour** lifespan

## Field-Adjustable CCT and 90+ CRI



## PERFORMANCE

Catalog Number	Type	Trim	Size	Equivalency	Input Wattage	Lumens*	Efficacy*	Input Voltage	Color Temperature	CRI	L70 Lifespan
R4R89FA120WB	Recessed	Baffle	4"	65W Incandescent	8W	700 Lm	88 Lm/W	120V	Field-Adjustable 2700/3000/3500/ 4000/5000K	90+	50,000
R4R109FA120WB	Recessed	Baffle	4"	75W Incandescent	10W	1000 Lm	100 Lm/W				
R4R89FA120WS	Recessed	Smooth	4"	65W Incandescent	8W	700 Lm	88 Lm/W				
R6R89FA120WB	Recessed	Baffle	6"	65W Incandescent	8W	725 Lm	91 Lm/W				
R6R89FA120WS		Smooth									
R6R119FA120WB	Recessed	Baffle	6"	65W Incandescent	11W	900 Lm	82 Lm/W				
R6R119FA120WS		Smooth									
R6R149FA120WB	Recessed	Baffle	6"	100W Incandescent	14W	1200 Lm	86 Lm/W				
R6R149FA120WS		Smooth									
RA4R89FA120WS	Gimbal	Smooth	4"	65W Incandescent	8W	700 Lm	88 Lm/W				
RA6R109FA120WS	Gimbal	Smooth	6"	75W Incandescent	10W	900 Lm	90 Lm/W				
RA6R119FA120WS	Gimbal	Smooth	6"	85W Incandescent	11W	1100 Lm	100 Lm/W				

\*Nominal values

## PERFORMANCE (CONT.)

### 4" 8W Recessed retrofit

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
R4R89FA120WB R4R89FA120WS	8W	2700K	96 Lm/W	722 Lm	65W Incandescent
		3000K	100 Lm/W	739 Lm	
		3500K	102 Lm/W	755 Lm	
		4000K	102 Lm/W	768 Lm	
		5000K	101 Lm/W	782 Lm	

### 4" 10W Recessed retrofit

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
R4R109FA120WB	10W	2700K	117 Lm/W	1,072 Lm	75W Incandescent
		3000K	125 Lm/W	1,126 Lm	
		3500K	131 Lm/W	1,127 Lm	
		4000K	130 Lm/W	1,174 Lm	
		5000K	125 Lm/W	1,150 Lm	

### 6" 8W Recessed retrofit

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
R6R89FA120WB R6R89FA120WS	8W	2700K	96 Lm/W	738 Lm	65W Incandescent
		3000K	98 Lm/W	750 Lm	
		3500K	100 Lm/W	761 Lm	
		4000K	100 Lm/W	783 Lm	
		5000K	105 Lm/W	793 Lm	

### 6" 11W Recessed retrofit

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
R6R119FA120WB R6R119FA120WS	11W	2700K	96 Lm/W	938 Lm	65W Incandescent
		3000K	100 Lm/W	952 Lm	
		3500K	103 Lm/W	968 Lm	
		4000K	102 Lm/W	981 Lm	
		5000K	105 Lm/W	1,050 Lm	

# CCT-Adjustable Recessed Retrofit & Gimbal



## PERFORMANCE (CONT.)

### 6" 14W Recessed retrofit

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
R6R149FA120WB R6R149FA120WS	14W	2700K	90 Lm/W	1,235 Lm	100W Incandescent
		3000K	94 Lm/W	1,272 Lm	
		3500K	99 Lm/W	1,315 Lm	
		4000K	99 Lm/W	1,321 Lm	
		5000K	95 Lm/W	1,283 Lm	

### 4" 8W Gimbal

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
RA4R89FA120WS	8W	2700K	97 Lm/W	719 Lm	65W Incandescent
		3000K	99 Lm/W	731 Lm	
		3500K	103 Lm/W	746 Lm	
		4000K	104 Lm/W	752 Lm	
		5000K	103 Lm/W	768 Lm	

### 6" 10W Gimbal

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
RA6R109FA120WS	10W	2700K	98 Lm/W	921 Lm	75W Incandescent
		3000K	101 Lm/W	938 Lm	
		3500K	106 Lm/W	956 Lm	
		4000K	107 Lm/W	967 Lm	
		5000K	106 Lm/W	979 Lm	

### 6" 11W Gimbal

Catalog Number	Wattage	CCT	Efficacy	Lumens	Equivalency Wattage
RA6R119FA120WS	11W	2700K	117 Lm/W	1,160 Lm	85W Incandescent
		3000K	125 Lm/W	1,165 Lm	
		3500K	131 Lm/W	1,191 Lm	
		4000K	130 Lm/W	1,196 Lm	
		5000K	125 Lm/W	1,171 Lm	

## TECHNICAL SPECIFICATIONS

### CONSTRUCTION

**Product Type**

Recessed Retrofit, Recessed Gimbal Retrofit

**Size**

4" and 6"

**Enclosure Material**

Metal (*Gimbal 6" 11W: plastic*)

**Shape**

Round

**Finish**

White

**Trim Style**

Smooth, Baffle

**Lens**

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

### INSTALLATION

**Mounting**

Recessed

### ELECTRICAL

**Dimmable**

Yes, TRIAC/ELV dims down to 10% (*See Dimmer Compatibility List*)

**THD**

≤20%

**Power Factor**

≥0.9

**Input Voltage**

120V

**Operating Frequency**

60Hz

**Operating Temperature**

-22°F to 104°F (-30°C to 40°C)

*\*Recessed 6" 14W and Gimbal 6" 11W: -4°F to 104°F (-20°C to 40°C)*

### COMPLIANCE

**Safety Listing**

UL Recognized, UL Classified

*\*Recessed 6" 14W and Gimbal 6" 11W: UL Listed, UL Recognized*

**Environment**

Suitable for use in dry, damp, and wet environments.

**Air-Tight**

No

**IC Rated**

No

**Energy Star Approved**

This product is ENERGY STAR® Version 2.2 Certified.

**DLC Listed**

No. There is no product category on the Design Lights Consortium (DLC) Qualified Products List for this product to qualify under.

**T20 Compliant**

Can be used to conform with the requirements of California Title 20.

**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.

### LED CHARACTERISTICS

**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 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.

### 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%)

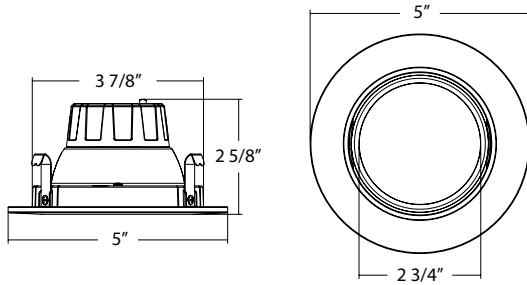
# CCT-Adjustable Recessed Retrofit & Gimbal



## DIMENSIONS

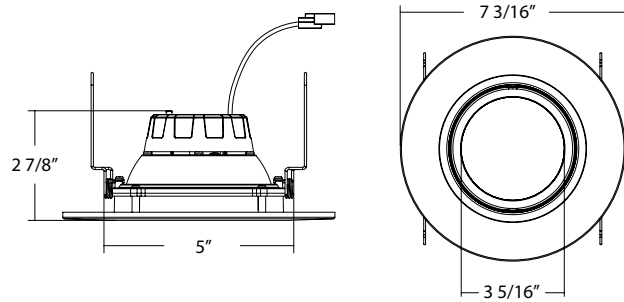
### 4" Smooth Recessed - 8W

Weight: 0.52lb



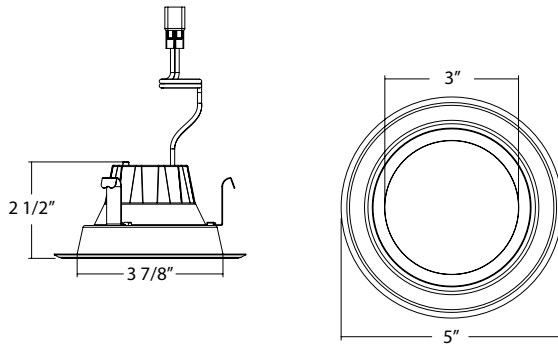
### 4" Baffle Recessed - 8W and 10W

Weight: 8W: 0.52lb • 10W: 0.58lb



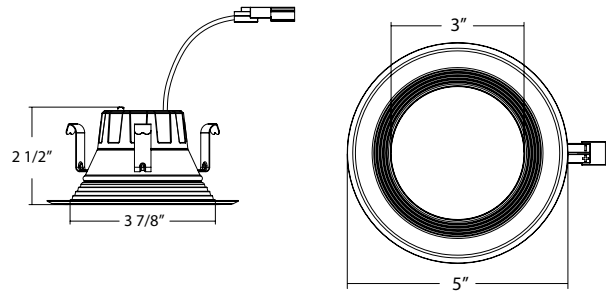
### 6" Smooth Recessed - 8W, 11W and 14W

Weight: 8W and 11W: 0.83lb • 14W: 0.84lb



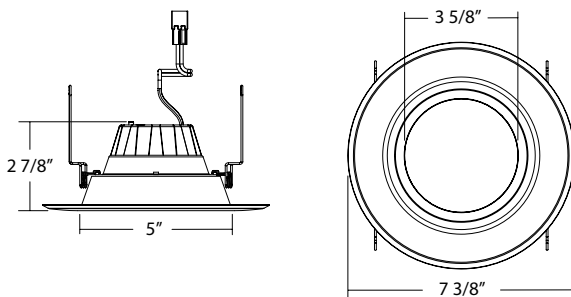
### 6" Baffle Recessed - 8W, 11W and 14W

Weight: 8W and 11W: 0.83lb • 14W: 0.84lb



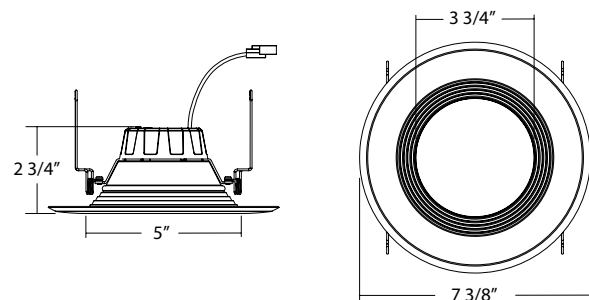
### 4" Gimbal - 8W

Weight: 0.44lb



### 6" Gimbal - 10W and 11W

Weight: 10W: 0.63lb • 11W: 0.92lb



## OPTIONAL ACCESSORIES

### Smooth Trims



Brushed Nickel



Black



Bronze

Catalog Number	UPC	Description
DLTRIM/R4RS-BN	192552000895	4" Round smooth brushed nickel color trim
DLTRIM/R4RS-BRZ	192552022248	4" Round smooth bronze color trim
DLTRIM/R4RS-B	192552000918	4" Round smooth black color trim
DLTRIM/R6RS-BN	192552000925	6" Round smooth brushed nickel color trim
DLTRIM/R6RS-BRZ	192552022255	6" Round smooth bronze color trim
DLTRIM/R6RS-B	192552000949	6" Round smooth black color trim

### Baffle Trims



Brushed Nickel



Black



Bronze

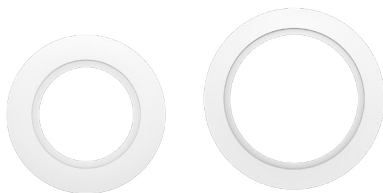
Catalog Number	UPC	Description
DLTRIM/R4RB-BN-L	192552028219	4" Round baffle brushed nickel color trim
DLTRIM/R4RB-BRZ-L	192552028226	4" Round baffle bronze color trim
DLTRIM/R4RB-B-L	192552028202	4" Round baffle black color trim
DLTRIM/R6RB-BN	192552000987	6" Round baffle brushed nickel color trim
DLTRIM/R6RB-BRZ	192552022279	6" Round baffle bronze color trim
DLTRIM/R6RB-B	192552001007	6" Round baffle black color trim

### Retrofit Band



Catalog Number	UPC	Description
RFLED-RETROBAND	192552013710	Retrofit band

### Goof Rings



Catalog Number	UPC	Description
RFLED-GOOF-4R-6R-W	192552013727	4"-6" goof ring
RFLED-GOOF-6R-8R-W	192552013734	6"-8" goof ring

### Emergency Backup Driver



Catalog Number	UPC	Description
DRI-25-EMGR-DC	019813519180	Emergency backup driver

## ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
R4R89FA120WB	DLR0118(R4R89FA120WB)	019813512860	4
R4R109FA120WB	DLR0131(R4R109FA120WB)	192552024655	4
R4R89FA120WS	DLR0121(R4R89FA120WS)	019813511009	4
R6R89FA120WB	DLR0119(R6R89FA120WB)	019813512877	4
R6R89FA120WS	DLR0122(R6R89FA120WS)	019813511016	4
R6R119FA120WB	DLR0120(R6R119FA120WB)	019813512884	4
R6R119FA120WS	DLR0123(R6R119FA120WS)	019813511023	4
R6R149FA120WB	DLR0125(R6R149FA120WB)	192552013796	4
R6R149FA120WS	DLR0124(R6R149FA120WS)	192552013789	4
RA4R89FA120WS	DLG0010(RA4R89FA120WS)	192552000710	4
RA6R109FA120WS	DLG0011(RA6R109FA120WS)	192552000727	4
RA6R119FA120WS	DLR0126(RA6R119FA120WS)	192552013802	4

## ORDERING MATRIX

Family	Size	Shape	Wattage	CRI/Color Temp	Voltage	Finish	Trim
		<b>R</b>		<b>9FA</b>		<b>W</b>	
R Retrofit	4 4"	R Round	8 8W	9FA 90 CRI, Field-Adjustable	Blank 120V	W White	S Smooth
RA Retrofit Adjustable	6 6"		10 10W 11 11W 14 14W	2700/3000/3500/4000/5000K			B Baffle

**Notes**

4" only available in 8W and 10W

6" Retrofit only available in 8W, 11W and 14W

6" Adjustable only available in 10W and 11W

Retrofit Adjustable models only available with smooth trim