

RA4R & RA6R CCT-Adjustable Gimbal Retrofit Downlights

RAB



4" & 5/6", CCT-Adjustable, Gimbal,
120V TRIAC Dimmable



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- 4" & 5/6" Recessed gimbal downlights are compatible with most recessed housings
- 4"–800lm
6"–900lm & 1,200lm
- 5 Selectable color temperatures: 2700/3000/3500/4000/5000K
- Constructed from die-cast aluminum with a smooth flat frosted polycarbonate lens
- Dimmable down to 10% with compatible TRIAC/ELV dimmers, see dimmer compatibility list
- 35° Tilting angle with 360 degree rotation

PERFORMANCE

Catalog Number	Size	Trim Style	Finish	Wattage (W)	CCT	Flux (lm)	Efficacy (lm/w)	Equivalency (W)	Input Voltage	Dim Type	CRI	L70 Lifespan (Hrs)	Energy Star ID
RA4R89FA120WS	4"	Gimbal	White	8	2700K	804	100	65					3555552
					3000K	840	105						
					3500K	883	110						
					4000K	894	112						
			5000K		873	109							
RA4R89FA120BS			Black		2700K	757	96						4481452
					3000K	785	102						
					3500K	815	109						
	4000K	820		109									
	5000K	805	103										
RA6R109FA120WS	5/6"	Gimbal	White	10	2700K	921	92	75				3436422	
					3000K	938	94						
					3500K	956	96						
					4000K	967	97						
					5000K	979	98						
RA6R119FA120WS			White	11	2700K	1,160	105	85				3477701	
					3000K	1,165	106						
					3500K	1,191	108						
					4000K	1,196	109						
					5000K	1,171	106						
RA6R119FA120BS			Black		2700K	1,128	108					TBD	
					3000K	1,163	113						
					3500K	1,214	120						
					4000K	1,236	121						
					5000K	1,228	118						

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

LED Recessed Retrofit Gimbal

Size

4" and 5/6"

Shape

Round

Trim Style

Adjustable gimbal lens with a 35° tilt angle

Trim Material

Constructed from spun aluminum

Finish

White and black

Lens

Frosted polycarbonate single optic and full-face lens for precise beam angle control

INSTALLATION

Mounting

Designed to be installed in standard recessed housings.

4" – Compatible on most standard 4" housings

6" – Compatible on most standard 5" or 6" housings.

Base Type

E26 Edison socket adapter included

ELECTRICAL

Dimmable

Yes, dimmable down to 10% on compatible TRIAC/ELV dimming systems.

(See *Dimmer Compatibility List*)

Driver

Constant Current

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

THD

≤20%

Power Factor

≥0.9

Flicker

≤30%

LED CHARACTERISTICS

Beam Angle

90°

Color Temperature

Field-adjustable dip switch 2700/3000/3500/4000/5000K

Color Accuracy

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

UL Listed

UL Classified, UL Recognized

Environment

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

IC Rated

Can be IC Rated when paired with IC Rated recessed housing

Air Tight

Yes

ENERGY STAR® Approved

This product is ENERGY STAR® Certified.

California Title 20 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.

OTHER

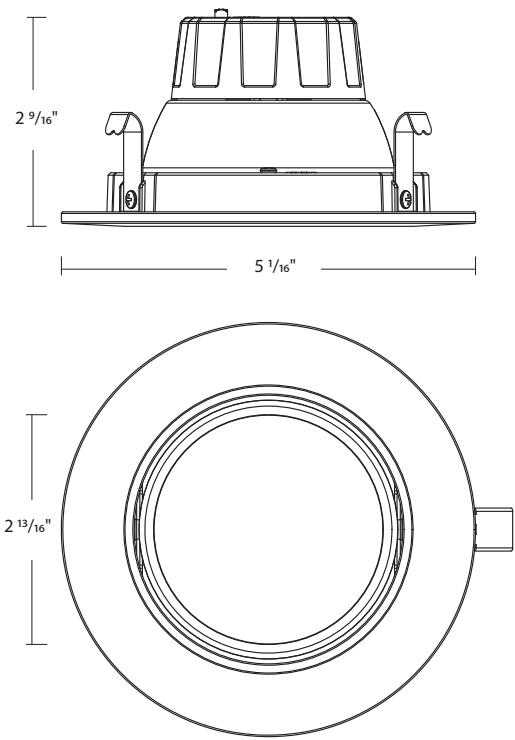
Warranty

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.

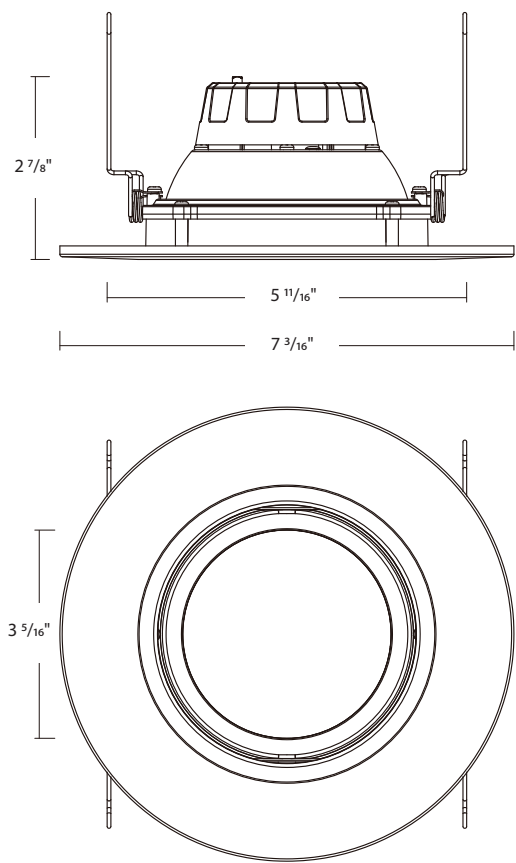
RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

DIMENSIONS

4" Gimbal - 8W
Weight: 0.44 lbs



6" Gimbal - 10W and 11W
Weight: 10W: 0.63 lbs • 11W: 0.92 lbs



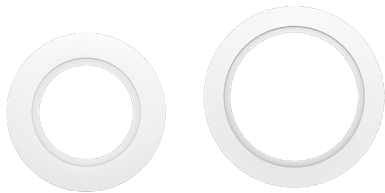
OPTIONAL ACCESSORIES

Retrofit Band



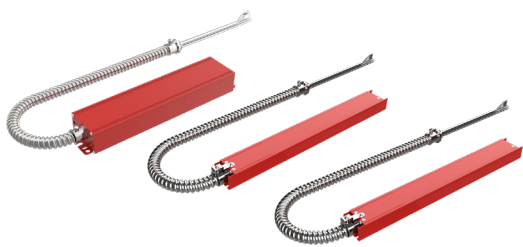
Catalog Number	UPC	Description
RFLED-RETROBAND	192552013710	Retrofit band

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
EMB-9	192552051187	EM DRIVER 100-347V 9W 0-10V DIM
EMB-15	192552051194	EM DRIVER 100-347V 15W 0-10V DIM
EMB-25	192552051200	EM DRIVER 100-347V 25W 0-10V DIM

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ORDERING INFO

Catalog Number	Description	UPC	Case Pack
RA4R89FA120WS	RETROFIT ADJ DL 4IN 8W 700LM CRI90 ROUND 5CCT 120V WHITE	192552000710	4
RA4R89FA120BS	RETROFIT ADJ DL 4IN 8W 700LM CRI90 ROUND 5CCT 120V BLACK	192552050975	4
RA6R109FA120WS	RETROFIT ADJ DL 6IN 10W 900LM CRI90 ROUND 5CCT 120V WHITE	192552000727	4
RA6R119FA120BS	RETROFIT ADJ DL 6IN 11W 900LM CRI90 ROUND 5CCT 120V BLACK	192552050982	4
RA6R119FA120WS	RECESSED HO GB 6" RD E26 S PLA W 11W 1100LM 5CCT CRI90 TRIAC	192552013802	4

ORDERING MATRIX

Family		Size		Shape	Wattage		CRI/Color Temp		Driver		Finish		Trim		
RA				R			9FA								
RA	Retrofit Adjustable	4	4"	R	Round	8	8W*	9FA	90 CRI, Field-Adjustable	120	120V	W	White	Blank	Smooth
		6	6"			10	10W**								
						11	11W**								

*8W only available in 4-inch
**10W & 11W only available in 6-inch
***Black trim only available on 8W and 11W

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Dimmer Compatibility List

RA4R89FA120WS RA6R119FA120WS
 RA4R89FA120BS RA6R119FA120BS
 RA6R109FA120WS

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

Dimmer Brand	Dimmer Model
Leviton	6633-P
Leviton	6683
Leviton	6684
Leviton	IPI06
Leviton	6672
Leviton	6613-P
Leviton	6674
Leviton	6631
Lutron	AY-600P
Lutron	CN-600
Lutron	LGCL-153PL
Lutron	DV-603PG
Lutron	DV-600P
Lutron	GL-600H
Lutron	MACL-153M
Lutron	AYCL-153P
Lutron	TG-600PHLH
Lutron	TGCL-153P
Lutron	DVCL-153PL
Lutron	DVCL-153P
Lutron	GTJ-250M
Lutron	SCL-153P
Lutron	CTCL-153PDH-WH
Lutron	TGCL-153PH-WH
Lutron	DVLV-600P
Lutron	DVWCL-153PH-WH
Lutron	R12-06672-1LW
Lutron	R50-IPL06-10M
Legrand	D703-PTC
Legrand	DLV703-PLA
Legrand	HCL453PTCCCV6
Legrand	H703PTCCCV6
Legrand	RHCL453PTC
Legrand	DCL453PTCCCV6
Cooper/Eaton	9530