

R4R & R6R CCT-Adjustable Retrofit Downlights



4" Smooth



4" Baffle



5/6" Smooth



5/6" Baffle

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



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- **4" & 5/6" Recessed downlights** are compatible with most recessed housings
- **4"**—700lm and 1100lm
6"—750lm, 1100lm, and 1300lm
- **5 Selectable color temperatures:** 2700/3000/3500/4000/5000K
- Constructed from die-cast aluminum available in a **smooth reflector** or **baffled trim** with a smooth flat frosted polycarbonate lens
- **Dimmable down to 10%** with compatible TRIAC/ELV dimmers, see dimmer compatibility list

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	
R4R89FA120WB	4"	Baffle	White	8	2700K	0	91	60	120V	TRIAC/ELV	90	50,000	3554024	
R4R89FA120WS					3000K	0	93							
					3500K	0	95							
					4000K	0	95							
					5000K	0	92							
		2700K			721	90								
R4R109FA120WB		Baffle			3000K	746	93						75	3555561
					3500K	759	95							
					4000K	762	95							
					5000K	739	92							
				2700K	1,042	104								
R4R109FA120WS		Smooth		3000K	1,083	108	3555561							
				3500K	1,121	112								
				4000K	1,090	109								
				5000K	1,060	106								
	2700K		1,076	119										
		3000K	1,121	125										
		3500K	1,148	130										
		4000K	1,139	127										
		5000K	1,104	122										

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PERFORMANCE (CONT.)

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								
R6R89FA120WB	5/6"	Baffle	White	8	2700K	755	91	60	120V	TRIAC/ELV	90	50,000	3554025								
					3000K	769	93														
		3500K			781	95															
		4000K			786	95															
5000K		768			92																
R6R89FA120WS		Smooth			2700K	748	90						3554025								
					3000K	762	93														
					3500K	776	95														
					4000K	773	95														
					5000K	759	92														
R6R119FA120WB		Baffle		10.5	2700K	939	89	75					120V	TRIAC/ELV	90	50,000	3543398				
					3000K	953	91														
		3500K			969	92															
		4000K			982	94															
5000K		1,027			98																
R6R119FA120WS		Smooth			2700K	939	89										3543398				
					3000K	953	91														
					3500K	969	92														
					4000K	982	94														
					5000K	1,027	98														
R6R149FA120WB		Baffle		14	2700K	1,235	88	100									120V	TRIAC/ELV	90	50,000	3478096
					3000K	1,272	91														
		3500K			1,315	94															
		4000K			1,321	94															
5000K		1,283			92																
R6R149FA120WS		Smooth			2700K	1,221	87														3478096
					3000K	1,265	90														
					3500K	1,319	94														
					4000K	1,316	94														
					5000K	1,274	91														

Continued on next page

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

LED Recessed Retrofit Trim

Size

4" and 5/6"

Shape

Round

Trim Style

Smooth and Baffled

Trim Material

Constructed from spun aluminum

Finish

White - Color trim overlays sold separately

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

No

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.

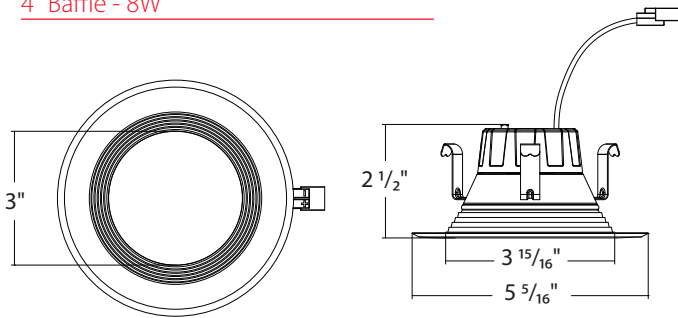
RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

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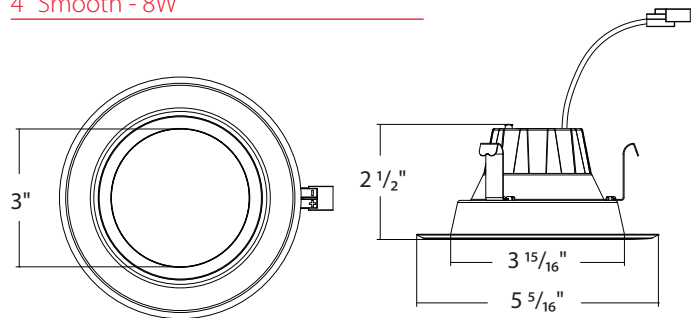


DIMENSIONS

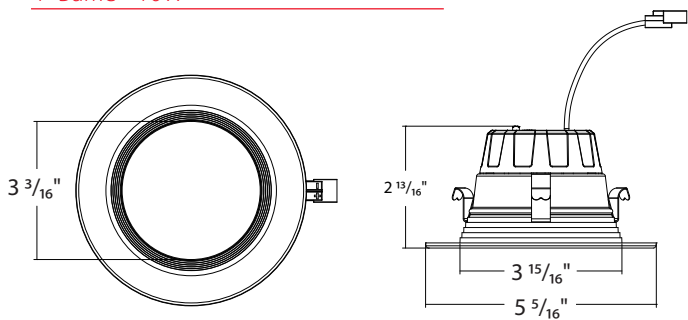
4" Baffle - 8W



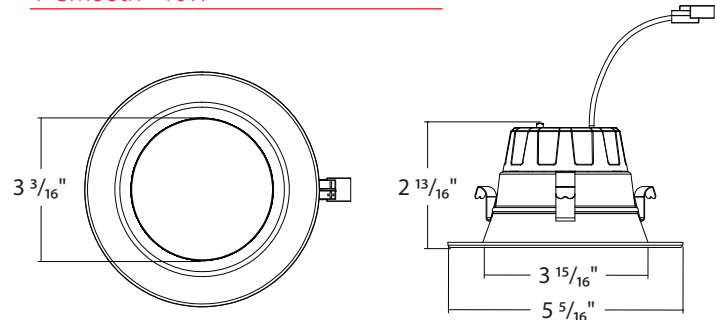
4" Smooth - 8W



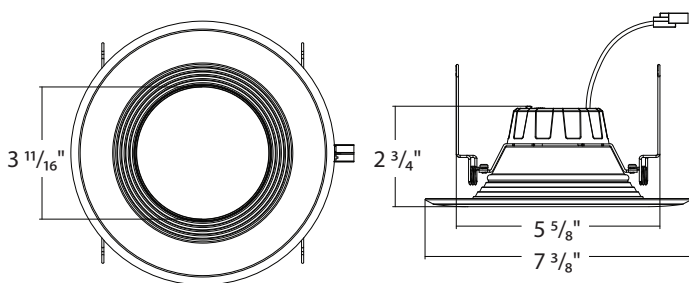
4" Baffle - 10W



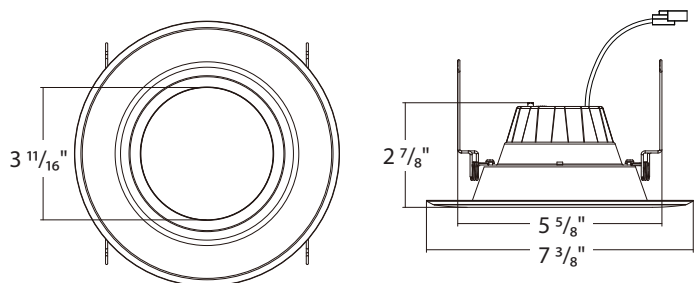
4" Smooth - 10W



6" Baffle - 8W, 10.5W, and 14W



6" Smooth - 8W, 10.5W, and 14W



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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

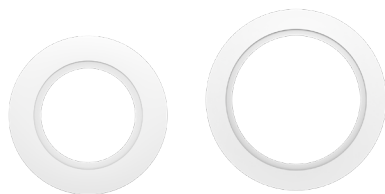
Catalog Number	UPC	Description
DLTRIM/R4RB-BN-L	192552028219	4" Round baffle brushed nickel color trim
DLTRIM/R4RB-BRZ-L	192552028226	4" Round baffle bronze color trim
DLTRIM/R4RB-B-L	192552028202	4" Round baffle black color trim
DLTRIM/R6RB-BN	192552000987	6" Round baffle brushed nickel color trim
DLTRIM/R6RB-BRZ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

Retrofit Band



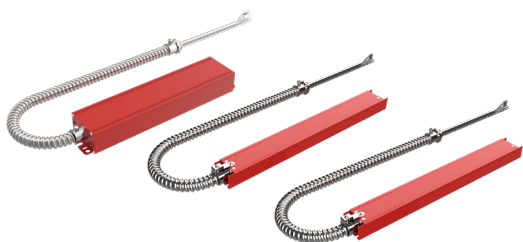
Catalog Number	UPC	Description
RFLED-RETROBAND	192552013710	Retrofit band

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
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
R4R89FA120WB	DL RES 4" ROUND 8W 700LM E26 92CRI SEL CCT 120V BAFFLE	019813512860	4
R4R89FA120WS	DL RES 4" ROUND 8W 700LM E26 92CRI SEL CCT 120V SMOOTH	019813511009	4
R4R109FA120WB	RESI RETRO HO 4" RD METAL WH" 10W B 1000LM 5CCT CRI90 TRIAC	192552024655	4
R4R109FA120WS	RESI RETRO HO 4" RD METAL WH" 10W 1000LM 5CCT CRI90 TRIAC	192552048880	4
R6R89FA120WB	DL RES 6" ROUND 8W 725LM E26 92CRI SEL CCT 120V BAFFLE	019813512877	4
R6R89FA120WS	DL RES 6" ROUND 8W 725LM E26 92CRI SEL CCT 120V SMOOTH	019813511016	4
R6R119FA120WB	DL RES 6" ROUND 10.5W 900LME26 92CRI SEL CCT 120V BAFFLE	019813512884	4
R6R119FA120WS	DL RES 6" ROUND 10.5W 900LME26 92CRI SEL CCT 120V SMOOTH	019813511023	4
R6R149FA120WB	RECESSED HO 6" RD E26 B MET W 14W 1200LM 5CCT CRI90 TRIAC	192552013796	4
R6R149FA120WS	RECESSED HO 6" RD E26 S MET W 14W 1200LM 5CCT CRI90 TRIAC	192552013789	4

ORDERING MATRIX

Family	Size		Shape	Wattage		CRI/Color Temp		Driver		Finish		Trim			
R			R			9FA		120							
	4	4"	R	Round	8	8W	9FA	90 CRI, Field-Adjustable		120	120V	Blank	White	Blank	Smooth
	6	6"			10	10W*		2700/3000/3500/4000/5000K						B	Baffle
					11	10.5W**									
					14	14W**									
*10W only available in 4 inch															

*10W only available in 4-inch
**10.5W & 14W only available in 6-inch

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Dimmer Compatibility List

R4R89FA120WS	R6R89FA120WS	R6R149FA120WS
R4R89FA120WB	R6R89FA120WB	R6R149FA120WB
R4R109FA120WS	R6R119FA120WS	
R4R109FA120WB	R6R119FA120WB	

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