

WFRX Dim-to-Warm Edge-Lit Wafer w/Nightlight



4" & 6", Smooth & Baffle, CCT Adjustable, 120V, Dim-to-Warm, Nightlight



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- Round 4" and 6" slim canless LED downlights
- Field-adjustable brightness
- 6 Field-adjustable CCTs & dim-to-warm setting (3000K down to 1800K)
- Dimmable down to 10% using TRIAC/ELV dimmers
- No recessed housing or j-box required suitable for air-tight applications
- 2000K amber white nightlight ring on the inside of the trim cone
- For new construction use with canless mounting frames (sold separately)
- 50,000 hrs, 5-year, no-compromise warranty

PERFORMANCE

	WFRX-4R/NL	WFRX-4RB/NL	WFRX-6R/NL	WFRX-6RB/NL
Size	4		6	
Trim Style	Smooth	Baffle	Smooth	Baffle
Wattage Equivalency	40W Incandescent		75W Incandescent	
Input Wattage	Main light: 10/8/6W Nightlight: 5.5W		Main light: 13/11/9W Nightlight: 5.5W	
Lumens	Mainlight: 500/650/850 lm Nightlight: 20 lm		Mainlight: 850/1000/1200 lm Nightlight: 20 lm	
Efficacy	85 lm/W		92 lm/W	
Dim Type		TRIAC/ELV		
Input Voltage		120V		
Beam Angle		110°		
Color Temperature	Default: 3000K Field adjustable via dip switch D2W/2700/3000/3500/4000/5000K Dim-to-Warm (D2W): 3000K-1800K Nightlight: 2000K			
CRI		90		
L70 Lifespan		50,000 Hrs		
Environment		Wet		
Energy Star ID	4517356		4517357	

WFRX Dim-to-Warm Edge-Lit Wafer w/Nightlight



PHOTOMETRIC

Catalog Number	Wattage	Color Temperature	Lumens	Efficacy	Equivalency Wattage
WFRX-4R/NL	6W	2700K	513	91.6	
		3000K	521	92.7	
		3500K	531	94.9	
		4000K	538	95.9	
		5000K	546	97.3	
	8W	2700K	664	91.0	
		3000K	675	92.3	
		3500K	690	94.5	
		4000K	698	95.5	
		5000K	707	96.6	
	10W	2700K	853	90.4	
		3000K	869	91.8	
		3500K	889	94.2	
		4000K	899	95.1	
		5000K	909	96.0	
WFRX-4RB/NL	6W	2700K	511	89.9	40W
		3000K	520	91.1	
		3500K	531	93.1	
		4000K	538	94.3	
		5000K	547	96.0	
	8W	2700K	659	89.5	
		3000K	671	90.9	
		3500K	686	93.1	
		4000K	695	94.3	
		5000K	705	95.5	
	10W	2700K	851	88.4	
		3000K	868	89.8	
		3500K	888	92.4	
		4000K	899	93.4	
		5000K	911	94.4	

Continued on next page.

WFRX Dim-to-Warm Edge-Lit Wafer w/Nightlight



PHOTOMETRIC

Catalog Number	Wattage	Color Temperature	Lumens	Efficacy	Equivalency Wattage
WFRX-6R/NL	9W	2700K	893	99.7	
		3000K	903	100.5	
		3500K	916	102.3	
		4000K	922	102.9	
		5000K	929	104.0	
	11W	2700K	1044	99.4	
		3000K	1057	99.7	
		3500K	1072	102.1	
		4000K	1080	102.9	
		5000K	1087	103.5	
	13W	2700K	1194	97.8	
		3000K	1208	99.0	
		3500K	1227	101.4	
		4000K	1236	102.2	
		5000K	1245	102.0	
WFRX-6RB/NL	9W	2700K	874	98.7	75W
		3000K	883	99.3	
		3500K	894	101.1	
		4000K	901	101.7	
		5000K	911	102.5	
	11W	2700K	1039	98.9	
		3000K	1049	99.9	
		3500K	1064	102.3	
		4000K	1071	102.0	
		5000K	1078	102.7	
	13W	2700K	1186	98.0	
		3000K	1199	99.1	
		3500K	1216	101.3	
		4000K	1224	102.0	
		5000K	1230	101.7	

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TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

Slim canless wafer downlights with dim-to-warm & integrated nightlight

Size

4", 6"

Shape

Round

Trim Style

Smooth or Baffle

Enclosure Material

Dead front (non-metallic) trim for corrosive environments. Aluminum back plate for effective heat dissipation

Trim Finish

White

Lens Finish

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

LED CHARACTERISTICS

Beam Angle

110°

Color Temperature

Default: 3000K

Field adjustable via dip switch D2W/2700/3000/3500/4000/5000K

Dim-to-Warm (D2W): 3000K-1800K

Nightlight: 2000K

Color Accuracy (CRI)

90

R9 Value

High color performance with R9 greater than 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.

INSTALLATION

Remote Driver/Junction Box

Die formed metal driver / junction box with captive hinged junction box cover. Listed for Maximum of (4) 12AWG through branch circuit conductor suitable for 90° C permitted in box. Easy to wire in 2in/2out (plus ground) applications. (4) conduit pry-outs. (3) quick snap-in connectors for quick and reliable line voltage connections. Integral mounting facilitates direct mounting to building structure or mounting frame.

Mounting

No housing is required, two tension steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 15/16". New construction frames are available.

Cable

FT5 Plenum Rated Cable (per UL2043)

ELECTRICAL

Dimmable

Yes, dimmable down to 10% on compatible TRIAC/ELV dimming systems. See Dimmer Compatibility List.

Driver

WFRX-4R - Constant Current, Class 2 120V 60 Hz; 120V: 85mA

WFRX-6R - Constant Current, Class 2 120V 60 Hz; 120V: 103mA

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

≤5%

COMPLIANCE

Listings

UL Listed

Environment

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

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.

Air Tight

Housing certified Air Tight as per ASTM E283

Energy Star Approved

This product is ENERGY STAR® Certified.

California Energy Commission (CEC) Status

Lawful for Sales in California

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.

RoHS

Mercury and UV free. RoHS-compliant components.

FCC

Complies with Part 15 of the FCC Rules

OTHER

Warranty

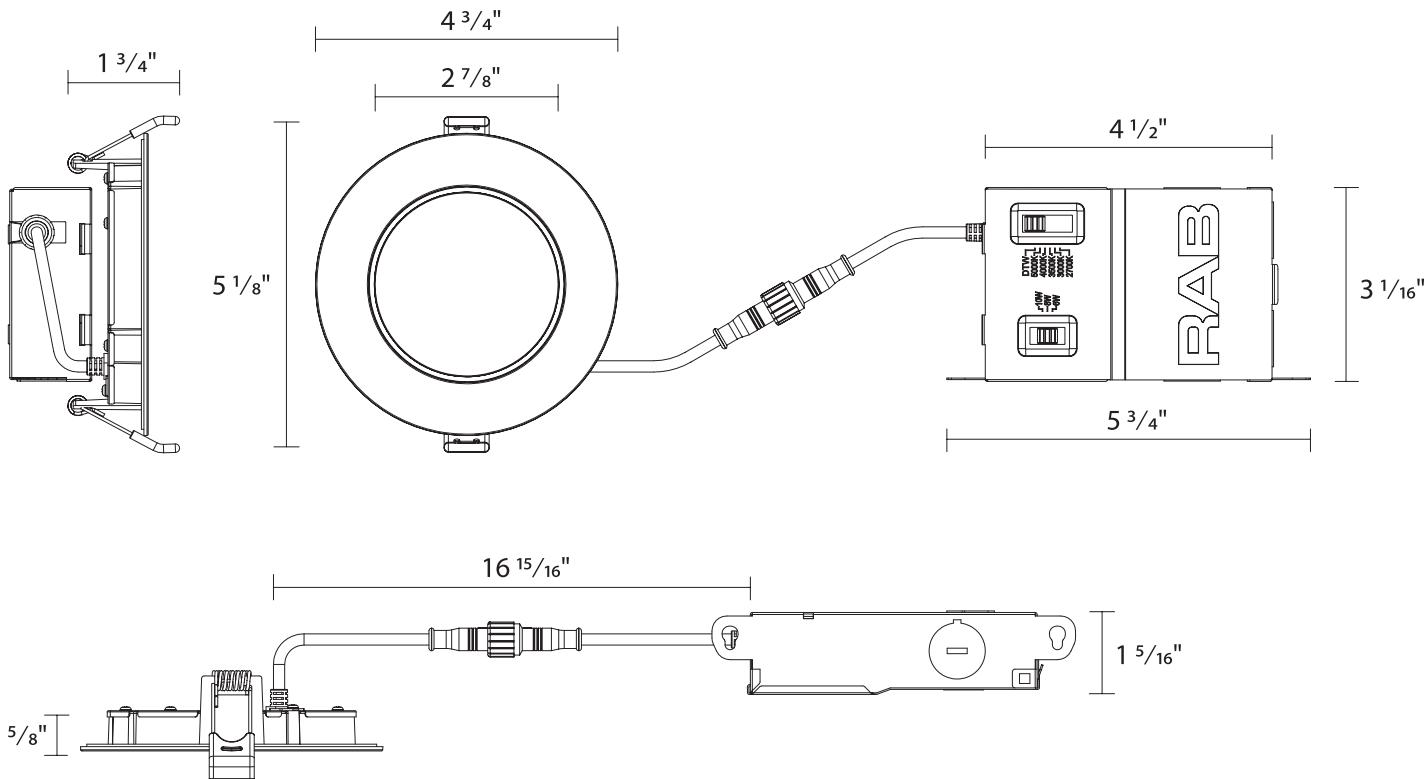
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

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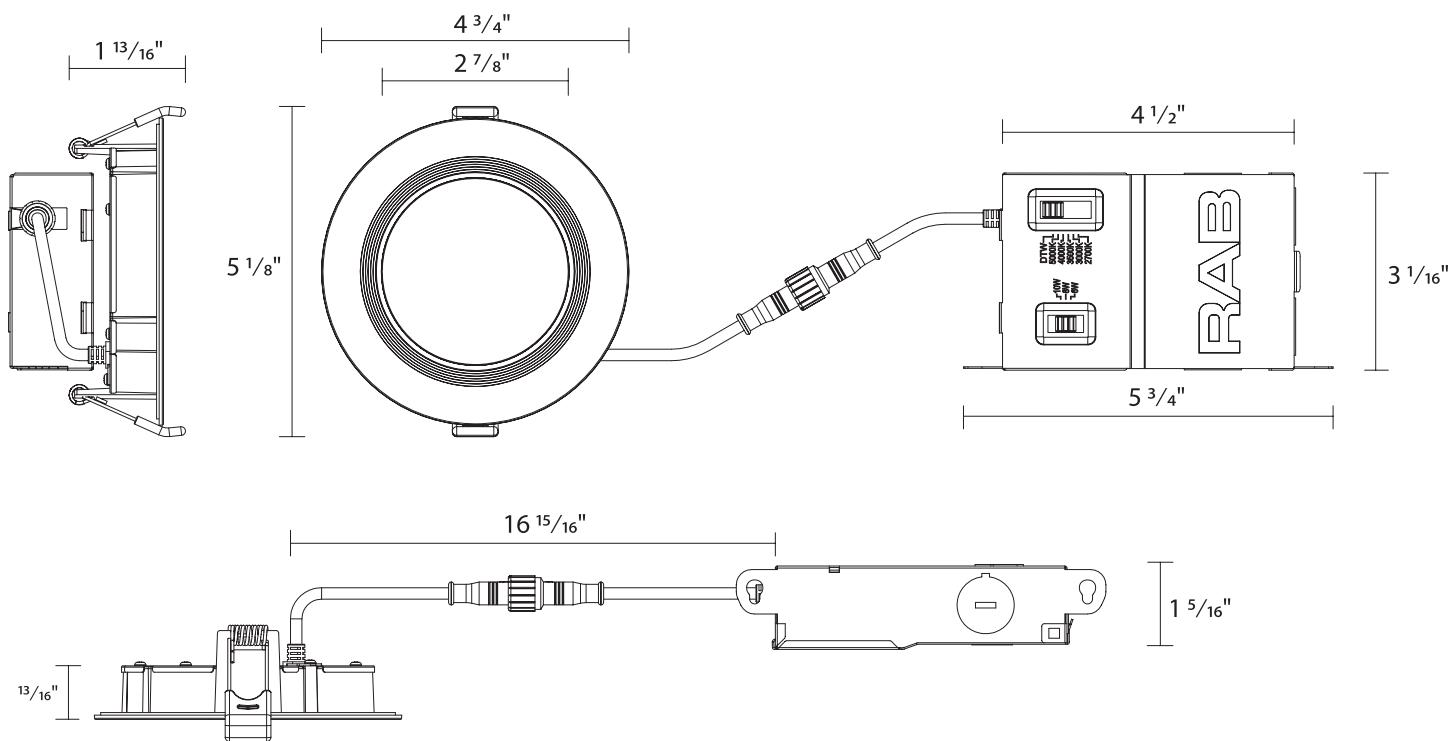
RAB

DIMENSIONS

4" Smooth



4" Baffle

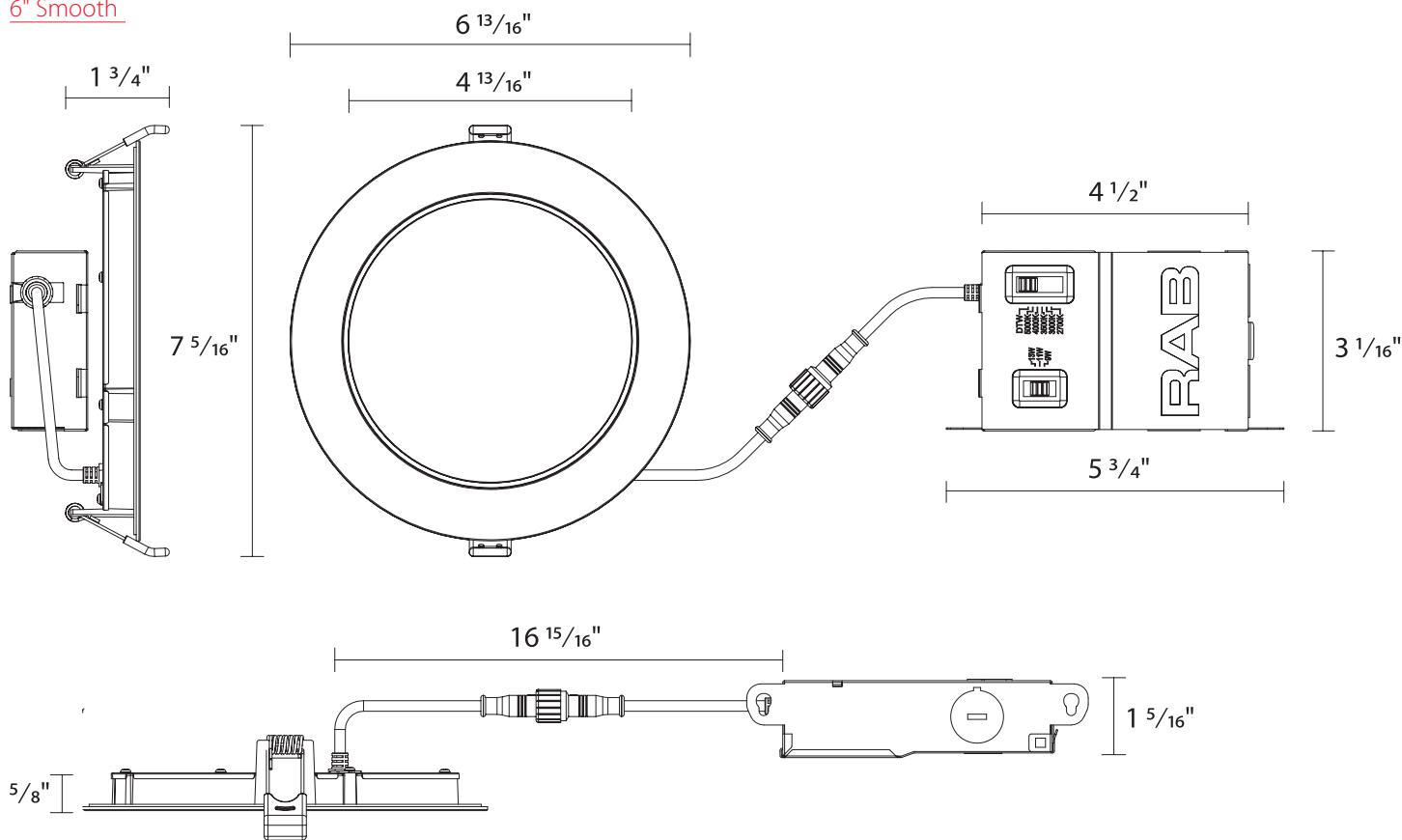


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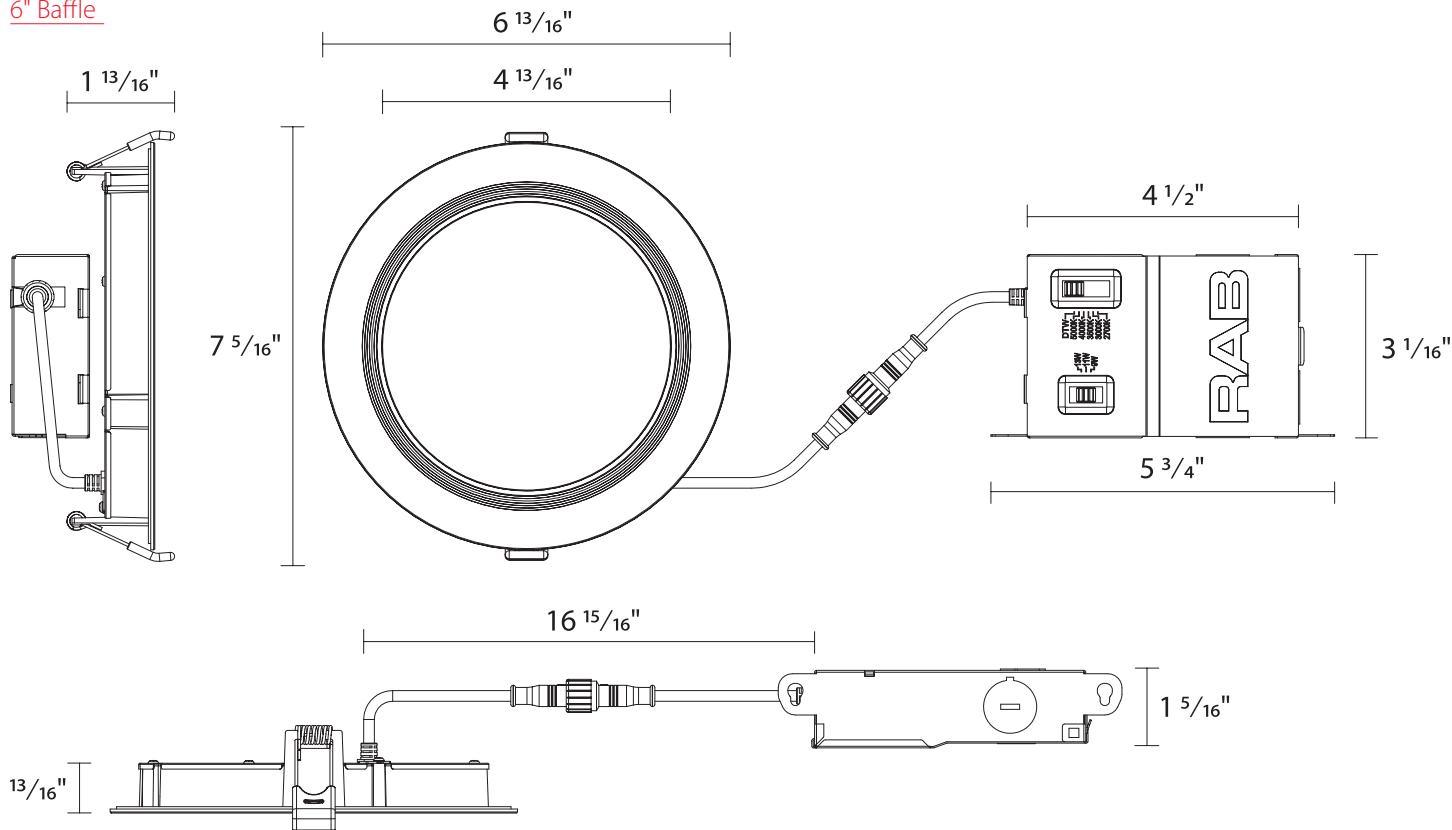
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DIMENSIONS

6" Smooth



6" Baffle

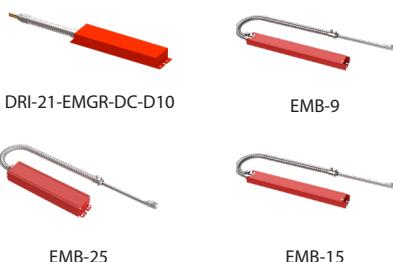


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ACCESSORIES

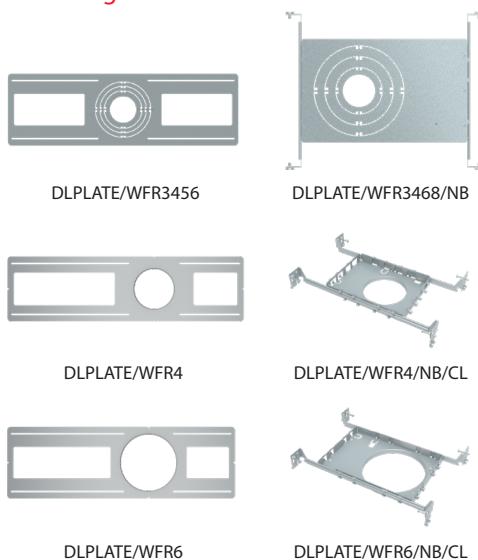
Emergency Drivers



Catalog Number	UPC	Description
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
EMB-9	192552045650	Emergency backup driver
EMB-25	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



Mounting Plates



Catalog Number	UPC	Description
DLPLATE/WFR3468/NB	192552000673	Mounting plate for 2", 3", 4", 6", 8" with nailer bar
DLPLATE/WFR3456	192552025584	Mounting plate for 2", 3", 4", 5", 6" Wafer
DLPLATE/WFR3468/NB/BP	192552050043	Mounting plate for 2", 3", 4", 5", 6" with nailer bar bulk pack
DLPLATE/WFR4	192552039819	Mounting plate for 4" wafer
DLPLATE/WFR4/NB/CL	0192552036993	Mounting plate for 4" wafer with nailer bar and drywall collar
DLPLATE/WFR6	192552039826	Mounting plate for 6" wafer
DLPLATE/WFR6/NB/CL	0192552037006	Mounting plate for 6" wafer with nailer bar and drywall collar

Color Trim



Catalog Number	UPC	Description
WFRL-TRIM-6R-BS	192552013680	6" Color trim round smooth black
WFRL-TRIM-6R-BRS	192552013697	6" Color trim round smooth bronze
WFRL-TRIM-6R-BNS	192552013703	6" Color trim round smooth brushed nickel
WFRL-TRIM-4R-BS	192552013659	4" Color trim round smooth black
WFRL-TRIM-4R-BRS	192552013666	4" Color trim round smooth bronze
WFRL-TRIM-4R-BNS	192552013673	4" Color trim round smooth brushed nickel

Goof Rings



Catalog Number	UPC	Description
WFRL-GOOF-4R-6R-W	192552013604	4"-6" Goof ring round white

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ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
WFRX-4R/NL	DLW0152(WFRX-4R/NL)	192552054003	6
WFRX-4RB/NL	DLW0153(WFRX-4RB/NL)	192552054010	6
WFRX-6R/NL	DLW0154(WFRX-6R/NL)	192552054027	6
WFRX-6RB/NL	DLW0155(WFRX-6RB/NL)	192552054034	6

ORDERING MATRIX

Family	Size/ Wattage	Shape	CRI/Color Temp	Driver	Finish	Trim	Options
WFRX		R					/NL
4	4", 10/8/6W	R	Round	Blank	D2W/2700/300/3500/4000/5000K CCT Adjustable	Blank	120V, TRIAC/ELV
6	6", 13/11/9W					Blank B	Smooth Baffle

Dimmer Compatibility List

WFRX-4R/NL

WFRX-4RB/NL

WFRX-6R/NL

WFRX-6RB/NL

Dimmer Brand	Series	Dimming Model
LUTRON	Maestro C-L	MACL-153M
LUTRON	Skylark C-L	SCL-153P
LEVITON	Sureslide	Cat.NO.6674
LUTRON	Diva C-L	DVCL-153P
LEGRAND	Radiant	RHCL453PTC
LEGRAND	Harmony	DCL453PTCCCV6
LEGRAND	Harmony	HCL453PTCCCV6
LUTRON	Skylark	CTCL-153PDH-WH
LEVITON	Illumena Tech	R50-IPL06-10M
LUTRON	Diva C-L	DVWCL-153PH-WH
RAB	RAB	XDIM