

WFRL Round CCT-Adjustable Wafers

RAB



Smooth

Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:



3", Smooth & Baffle, CCT Adjustable, 120V, TRIAC Dimmable



KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- 5 Selectable CCTs (2700/3000/3500/4000/5000K)
- 120V TRIAC dimmable driver down to 10%
- IC Rated, air tight, wet location and Energy Star

PERFORMANCE								
Catalog Number	Size	Trim	Equivalency	Input Wattage	Lumens	Efficacy	Color Temperature	L70 Lifetime
WFRL3R69CCT120WB	3"	Baffle	40W Incandescent	6W	500 lm	83 lm/W	Field-Adjustable 2700/3000/3500/4000/5000K	50,000 hrs
WFRL3R69CCT120WS		Smooth		6W	500 lm	83 lm/W		

PHOTOMETRICS											
Catalog Number	Wattage	Lumens (lm)					Efficacy (lm/W)				
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
WFRL3R69CCT120WS	6W	451	524	539	548	548	75	87	90	91	91
WFRL3R69CCT120WB		498	520	537	544	546	83	87	89	91	91

3" Round, CCT-Adjustable WFRL Edge-Lit Wafer



TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

Slim canless wafer downlights

Size

3"

Shape

Round

Trim Style

Smooth or baffle

Enclosure Material

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

Finish

White

Lens Finish

Polycarbonate

REMOTE DRIVER CONSTRUCTION

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)

LED CHARACTERISTICS

Beam Angle

110°

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 50

Color Consistency

<4-step (2700K & 5000K) 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.

ELECTRICAL

Dimmable

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

Power Factor

≥0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

THD

≤20%

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

Plenum Rated

Classified by UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.

Energy Star Approved

This product is ENERGY STAR® Certified.

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

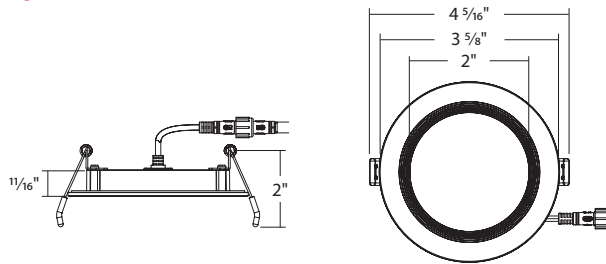
Mercury and UV free. RoHS-compliant components.

3" Round, CCT-Adjustable WFRL Edge-Lit Wafer

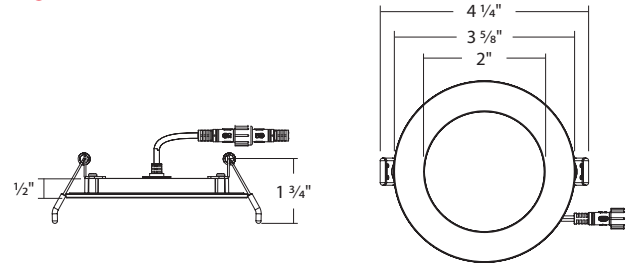


DIMENSIONS

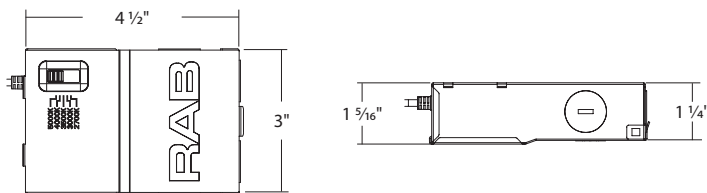
Baffle, Round
Weight: 0.68 lb



Smooth, Round
Weight: 0.70 lb



Driver/Junction Box

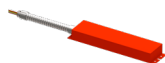


ACCESSORIES

Emergency Driver



DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



DRI-EMB-15S-LV



EMB-9



EMB-15



EMB-25

Catalog Number	UPC	Description
DRI-25-EMGR-DC	19813519180	Emergency driver 100-277V 25W
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
DRI-EMB-15S-LV	192552045650	Emergency backup driver
EMB-9	192552051187	Emergency driver 100-347V 9W 0-10V
EMB-15	192552051194	Emergency driver 100-347V 15W 0-10V
EMB-25	192552051200	Emergency driver 100-347V 25W 0-10V

Color Trims



WFRL-TRIM-3R-BS



WFRL-TRIM-3R-BS



WFRL-TRIM-3R-BNS

Catalog Number	UPC	Description
WFRL-TRIM-3R-BS	192552013628	3" Color trim round smooth black
WFRL-TRIM-3R-BRS	192552013635	3" Color trim round smooth bronze
WFRL-TRIM-3R-BNS	192552013642	3" Color trim round smooth brushed nickel

Extension Cables



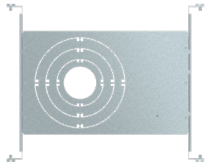
Catalog Number	UPC	Description
EXTCBL-FA-6	019813908502	6' Extension Cable for Wafer FA
EXTCBL-FA-12	019813908519	12' Extension Cable for Wafer FA
EXTCBL-FA-20	019813908526	20' Extension Cable for Wafer FA

3" Round, CCT-Adjustable WFRL Edge-Lit Wafer



ACCESSORIES (cont'd)

Mounting Plates



DLPLATE/WFR3468/NB



DLPLATE/WFR3456

Catalog Number	UPC	Description
DLPLATE/WFR3468/NB	192552000673	Mounting plate for 3", 4", 6", 8" with nailer bar
DLPLATE/WFR3456	192552025584	Mounting plate for 3", 4", 5", 6" Wafer

ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
WFRL3R69CCT120WB	DLW0084(WFRL3R69CCT120WB)	192552018753	6
WFRL3R69CCT120WS	DLW0059(WFRL3R69CCT120WS)	192552013390	4

ORDERING MATRIX

Family	Size	Shape	Wattage	CRI/Color Temp	Driver	Finish	Trim
WFRL	3	R	6	9CCT	120	W	
	3 3"	R Round	6 6W	9CCT 90CRI; CCT-Adjustable	120 120V; TRIAC/ELV	W White	S B Smooth Baffle

4" Round, CCT-Adjustable WFRL Edge-Lit Wafer



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- Available in white, black or bronze (*color trim accessories offered in Black Bronze, Brushed Nickel*)
- 5 Selectable CCTs (2700/3000/3500/4000/5000K)
- 120V TRIAC dimmable driver down to 10%
- IC Rated, air tight, wet location and Energy Star

4", Smooth & Baffle, CCT Adjustable, 120V, TRIAC Dimmable



PERFORMANCE

Catalog Number	Color	Size	Equivalency	Wattage	Lumens	Efficacy (lm/W)	Color Temperature	L70 Lifetime
WFRL4R99FA120WB	Baffle (White)	4"	60W Incandescent	9W	750 lm	83	Field-Adjustable 2700/3000/3500/4000/5000K	50,000 hrs
WFRL4R99FA120WBS	Shallow Baffle (White)							
WFRL4R99FA120WS	Smooth (White)							
WFRL4R99FA120BRZS	Smooth (Bronze)							
WFRL4R99FA120BRZB	Baffle (Bronze)							
WFRL4R99FA120BS	Smooth (Black)							
WFRL4R99FA120BB	Baffle (Black)							
WFRL4R10.59FA120WB	Baffle (White)							
WFRL4R10.59FA120WS	Smooth (White)							

4" Round, CCT-Adjustable WFRL Edge-Lit Wafer



PHOTOMETRICS

Catalog Number	Wattage	Lumens (lm)					Efficacy (lm/W)					Equivalency
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	
WFRL4R99FA120BRZS	9W	739	768	799	811	807	83	87	91	92	90	60W Incandescent
WFRL4R99FA120BRZB	9W	713	741	772	784	780	80	84	89	90	87	
WFRL4R99FA120BS	9W	715	745	781	799	802	83	87	89	91	91	
WFRL4R99FA120BB	9W	718	749	786	804	807	83	87	89	91	91	
WFRL4R99FA120WS	9W	696	725	735	780	760	83	87	89	91	91	
WFRL4R99FA120WBS	9W	698	728	737	785	763	83	87	89	91	91	
WFRL4R99FA120WB	9W	700	729	740	786	765	83	87	89	91	91	
WFRL4R10.59FA120WS	10.5W	916	960	1007	1020	995	83	87	89	91	91	
WFRL4R10.59FA120WB	10.5W	906	950	997	1010	985	83	87	89	91	91	

4" Round, CCT-Adjustable WFRL Edge-Lit Wafer



TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

Slim canless wafer downlights

Size

4"

Shape

Round

Trim Style

Smooth, baffle, shallow baffle

Enclosure Material

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

Finish

White, black, bronze

Lens Finish

Polycarbonate

REMOTE DRIVER CONSTRUCTION

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*)

LED CHARACTERISTICS

Beam Angle

110°

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 50

Color Consistency

<4-step (2700K & 5000K) 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.

ELECTRICAL

Dimmable

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

Power Factor

≥0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

THD

≤20%

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

Plenum Rated

Classified by UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.

Energy Star Approved

This product is ENERGY STAR® Certified.

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

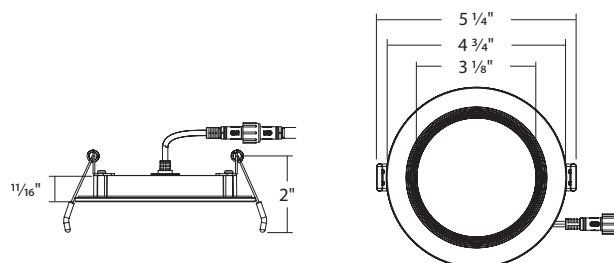
Mercury and UV free. RoHS-compliant components.

4" Round, CCT-Adjustable WFRL Edge-Lit Wafer

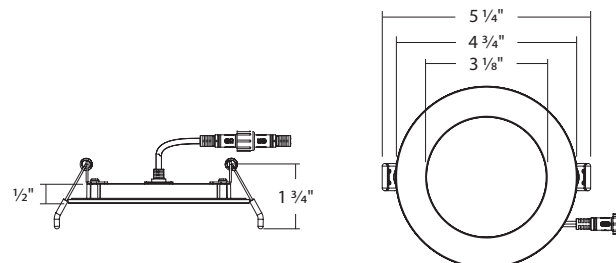


DIMENSIONS

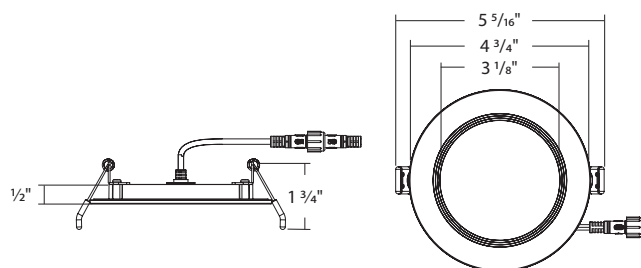
Baffle, Round



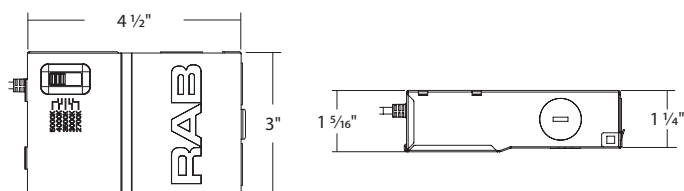
Smooth, Round



Shallow Baffle, Round



Driver/Junction Box



ACCESSORIES

Color Trim



Black

Bronze

Brushed Nickel

Catalog Number	UPC	Description
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

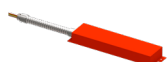


Catalog Number	UPC	Description
WFRL-GOOF-4R-6R-W	192552013604	4"-6" Goof ring round white

Emergency Driver



DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



DRI-EMB-15S-LV



EMB-9



EMB-15



EMB-25

Catalog Number	UPC	Description
DRI-25-EMGR-DC	19813519180	Emergency driver 100-277V 25W
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
DRI-EMB-15S-LV	192552045650	Emergency backup driver
EMB-9	192552051187	Emergency driver 100-347V 9W 0-10V
EMB-15	192552051194	Emergency driver 100-347V 15W 0-10V
EMB-25	192552051200	Emergency driver 100-347V 25W 0-10V

4" Round, CCT-Adjustable WFRL Edge-Lit Wafer



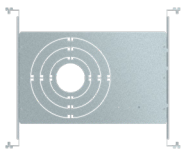
ACCESSORIES (cont'd)

Extension Cables



Catalog Number	UPC	Description
EXTCBL-FA-6	019813908502	6' Extension Cable for Wafer FA
EXTCBL-FA-12	019813908519	12' Extension Cable for Wafer FA
EXTCBL-FA-20	019813908526	20' Extension Cable for Wafer FA

Mounting Plates



DLPLATE/WFR3468/NB



DLPLATE/WFR3456



DLPLATE/WFR4/NB/CL



DLPLATE/WFR4

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

ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
WFRL4R99FA120BRZS	DLW0158(WFRL4R99FA120BRZS)	192552060493	6
WFRL4R99FA120BRZB	DLW0159(WFRL4R99FA120BRZB)	192552060509	6
WFRL4R99FA120BS	DLW0128(WFRL4R99FA120BS)	192552047999	6
WFRL4R99FA120BB	DLW0129(WFRL4R99FA120BB)	192552048002	6
WFRL4R99FA120WB	DLW0054(WFRL4R99FA120WB)	19813682464	6
WFRL4R99FA120WBS	DLW0094(WFRL4R99FA120WBS)	192552024266	6
WFRL4R99FA120WS	DLW0053(WFRL4R99FA120WS)	19813682457	6
WFRL4R10.59FA120WB	DLW0075(WFRL4R10.59FA120WB)	192552013451	6
WFRL4R10.59FA120WS	DLW0074(WFRL4R10.59FA120WS)	192552013444	6

ORDERING MATRIX

Family	Size	Shape	Wattage	CRI/Color Temp	Driver	Finish	Trim	Trim Depth
WFRL	4	R	9 10.5	9FA 90CRI; CCT-Adjustable	120 120V; TRIAC/ELV	W B* BRZ*	S B B	Standard Shallow

* Black finish only available on 4" 9W

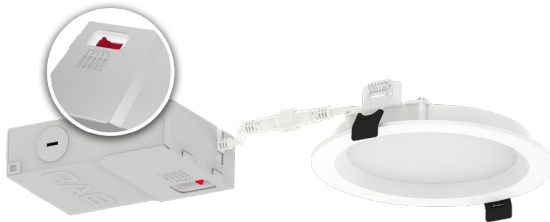
** Only available in 9W w/smooth trim

5" Round, CCT-Adjustable WFRL Edge-Lit Wafer



Smooth

Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:



5", Smooth & Baffle, CCT Adjustable, 120V, TRIAC Dimmable



KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- 5 Selectable CCTs (2700/3000/3500/4000/5000K)
- 120V TRIAC dimmable driver down to 10%
- IC Rated, air tight, wet location and Energy Star

PERFORMANCE

Catalog Number	Size	Trim	Equivalency	Input Wattage	Lumens	Efficacy	Color Temperature	L70 Lifetime
WFRL5R129CCT120WB	5"	Baffle	85W Incandescent	12W	1,100 lm	83 lm/W	Field-Adjustable 2700/3000/3500/4000/5000K	50,000 hrs
WFRL5R129CCT120WS		Smooth						

PHOTOMETRIC

Catalog Number	Wattage	CCT	Efficacy	Lumens
WFRL5R129CCT120WB	12W	2700K	85 lm/W	1,017 lm
		3000K	88 lm/W	1,058 lm
		3500K	92 lm/W	1,107 lm
		4000K	94 lm/W	1,123 lm
		5000K	88 lm/W	1,051 lm
WFRL5R129CCT120WS	12W	2700K	85 lm/W	1,025 lm
		3000K	89 lm/W	1,067 lm
		3500K	93 lm/W	1,116 lm
		4000K	94 lm/W	1,132 lm
		5000K	89 lm/W	1,062 lm

5" Round, CCT-Adjustable WFRL Edge-Lit Wafer



TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

Slim canless wafer downlights

Size

5"

Shape

Round

Trim Style

Smooth or baffle

Enclosure Material

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

Finish

White

Lens Finish

Polycarbonate

REMOTE DRIVER CONSTRUCTION

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*)

LED CHARACTERISTICS

Beam Angle

110°

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 50

Color Consistency

<4-step (2700K & 5000K) 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.

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ELECTRICAL

Dimmable

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

Power Factor

≥0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

THD

≤20%

COMPLIANCE

Listings

UL Listed

Environment

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

IC Rated

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NEC Compliant

Suitable for use in closets. Compliant with NEC Sec. 410.16 (A)(1) and 410.16 (C3).

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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

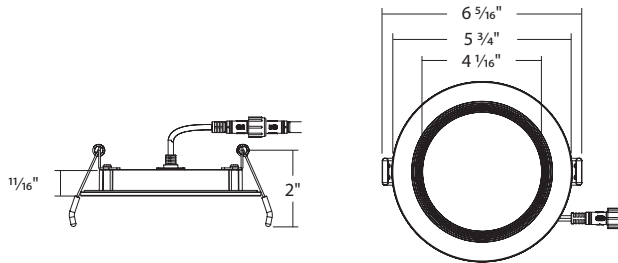
Mercury and UV free. RoHS-compliant components.

5" Round, CCT-Adjustable WFRL Edge-Lit Wafer

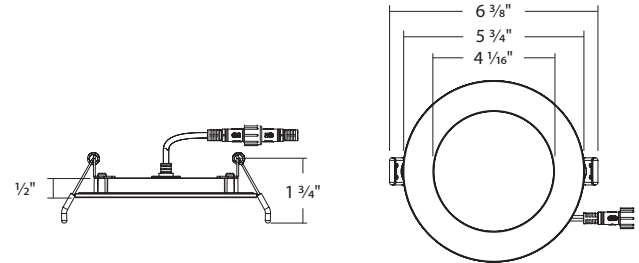


DIMENSIONS

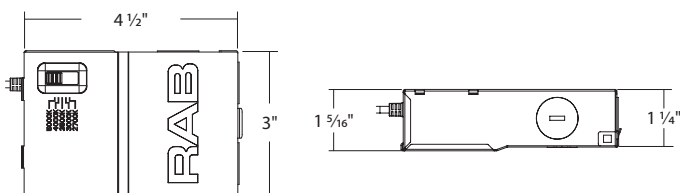
Baffle, Round



Smooth, Round

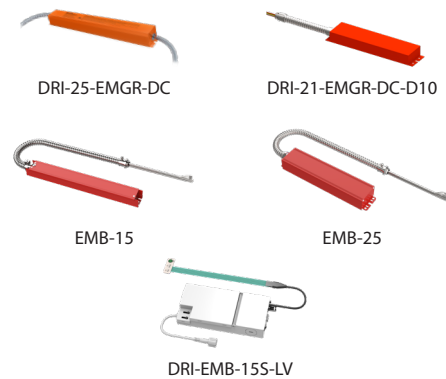


Driver/Junction Box



ACCESSORIES

Emergency Driver



Catalog Number	UPC	Description
DRI-25-EMGR-DC	19813519180	Emergency driver 100-277V 25W
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
DRI-EMB-15S-LV	192552045650	Emergency backup driver
EMB-15	192552051194	Emergency driver 100-347V 15W 0-10V
EMB-25	192552051200	Emergency driver 100-347V 25W 0-10V

Extension Cables



Catalog Number	UPC	Description
EXTCBL-FA-6	019813908502	6' Extension Cable for Wafer FA
EXTCBL-FA-12	019813908519	12' Extension Cable for Wafer FA
EXTCBL-FA-20	019813908526	20' Extension Cable for Wafer FA

Mounting Plates



Catalog Number	UPC	Description
DLPLATE/WFR3456	192552025584	Mounting plate for 3", 4", 5", 6" Wafer

5" Round, CCT-Adjustable WFRL Edge-Lit Wafer

RAB

ORDERING INFO			
Catalog Number	Model Number	UPC	Case Pack
WFRL5R129CCT120WB	DLW0093(WFRL5R129CCT120WB)	192552022316	6
WFRL5R129CCT120WS	DLW0092(WFRL5R129CCT120WS)	192552022309	6

ORDERING MATRIX																
Family		Size		Shape		Wattage		CRI/Color Temp			Driver		Finish		Trim	
WFRL		5		R		12		9CCT			120		W			
5	5"	R	Round	12	12W	9CCT	90CRI; CCT-Adjustable			120	120V; TRIAC/ELV		W	White	S B	Smooth Baffle

6" Round, CCT-Adjustable WFRL Edge-Lit Wafer



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- Available in black, white, and bronze (*color trim accessories offered in Black Bronze, Brushed Nickel*)
- 5 Selectable CCTs (2700/3000/3500/4000/5000K)
- 120V TRIAC dimmable driver down to 10%
- IC Rated, air tight, wet location and Energy Star

6", Smooth & Baffle, CCT Adjustable, 120V, TRIAC Dimmable



PERFORMANCE

Catalog Number	Color	Size	Equivalency	Wattage	Lumens	Efficacy (lm/W)	Color Temperature	L70 Lifetime
WFRL6R139FA120WB	Baffle (White)	6"	75W Incandescent	13W	1100 lm	85	Field-Adjustable 2700/3000/3500/4000/5000K	50,000 hrs
WFRL6R139FA120WS	Smooth (White)							
WFRL6R139FA120WBS	Shallow Baffle (White)							
WFRL6R139FA120BRZS	Smooth (Bronze)							
WFRL6R139FA120BRZB	Baffle (Bronze)							
WFRL6R139FA120BS	Smooth (Black)							
WFRL6R139FA120BB	Baffle (Black)							
WFRL6R149FA120WB	Baffle (White)		100W Incandescent	14W	1300 lm	93		
WFRL6R149FA120WS	Smooth (White)							

6" Round, CCT-Adjustable WFRL Edge-Lit Wafer



PHOTOMETRICS

Catalog Number	Wattage	Lumens (lm)					Efficacy (lm/W)					Equivalency
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	
WFRL6R139FA120BRZS	13W	1077	1107	1152	1170	1159	86	89	94	94	93	75W Incandescent
WFRL6R139FA120BRZB	13W	1057	1088	1135	1152	1140	85	88	92	94	91	
WFRL6R139FA120BS	13W	1064	1099	1154	1181	1182	87	90	95	98	96	
WFRL6R139FA120BB	13W	1060	1096	1152	1179	1180	86	89	94	97	95	
WFRL6R139FA120WS	13W	1005	1041	1115	1143	1134	77	80	86	88	87	
WFRL6R139FA120WBS	13W	1008	1046	1117	1148	1139	78	80	86	88	88	
WFRL6R139FA120WB	13W	1003	1042	1100	1140	1131	77	80	85	88	87	100W Incandescent
WFRL6R149FA120WS	14W	1208	1214	1258	1275	1253	86	87	90	91	90	
WFRL6R149FA120WB	14W	1153	1169	1221	1233	1206	82	84	87	88	86	

6" Round, CCT-Adjustable WFRL Edge-Lit Wafer



TECHNICAL SPECIFICATIONS

MODULE CONSTRUCTION

Product Type	Finish
Slim canless wafer downlights	White, black, bronze
Size	Lens Finish
6"	Polycarbonate
Shape	
Round	
Trim Style	
Smooth, baffle, shallow baffle	
Enclosure Material	
Dead front (non-metallic) trim for corrosive environments. Aluminum back plate for effective heat dissipation	

REMOTE DRIVER CONSTRUCTION

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 (<i>per UL2043</i>)

LED CHARACTERISTICS

Beam Angle
110°
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 50
Color Consistency
<4-step (2700K & 5000K) 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 .

ELECTRICAL

Dimmable
Yes, dimmable down to 10% on compatible TRIAC/ELV dimming systems. See Dimmer Compatibility List.
Power Factor
≥0.9
Input Voltage
120V
Operating Frequency
60Hz
Operating Temperature
-4°F to 104°F (-20°C to 40°C)
THD
≤20%

COMPLIANCE

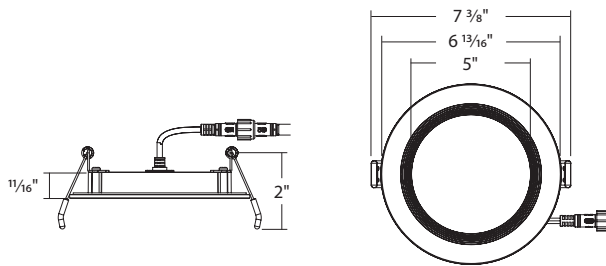
Listings
UL Listed
Environment
Suitable for use indoors and outdoors in dry, damp, or wet environments.
IC Rated
Suitable for direct contact with insulation. Type IC inherently protected, suitable for direct contact to air permeable insulation and cULus listed for damp locations. Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013.
Air Tight
Housing certified Air Tight as per ASTM E283
Plenum Rated
Classified by UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.
Energy Star Approved
This product is ENERGY STAR® Certified.
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.

6" Round, CCT-Adjustable WFRL Edge-Lit Wafer

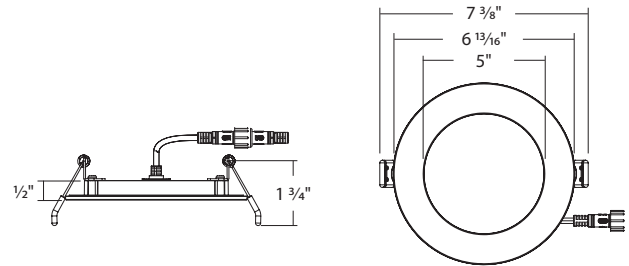


DIMENSIONS

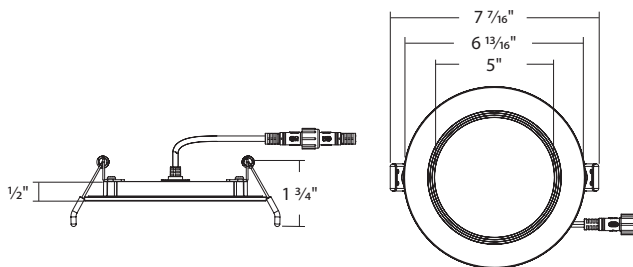
Baffle, Round



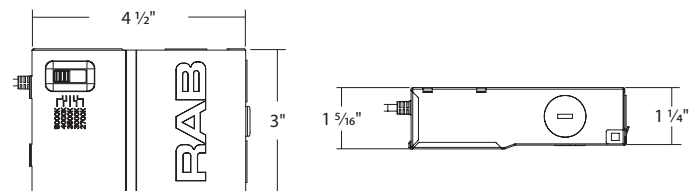
Smooth, Round



Shallow Baffle, Round



Driver/Junction Box



ACCESSORIES

Color Trim



Black

Bronze

Brushed Nickel

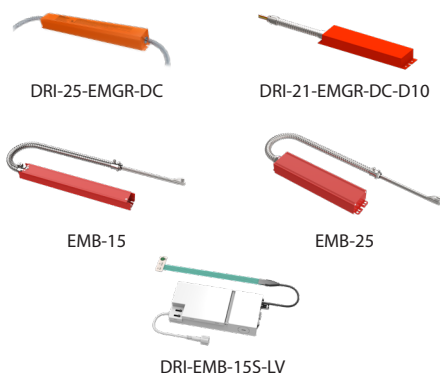
Catalog Number	UPC	Description
WFRL-TRIM-6R-BS	192552013680	6" Color trim round smooth black
WFRL-TRIM-6R-BRS	192552013697	6" Color trim round smooth bronze
WFRL-TRIM-6R-BNS	192552013703	6" Color trim round smooth brushed nickel

Goof Rings



Catalog Number	UPC	Description
WFRL-GOOF-6R-8R-W	192552013611	6"-8" Goof ring round white

Emergency Driver



DRI-25-EMGR-DC

DRI-21-EMGR-DC-D10

EMB-15

EMB-25

DRI-EMB-155-LV

Catalog Number	UPC	Description
DRI-25-EMGR-DC	19813519180	Emergency driver 100-277V 25W
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
DRI-EMB-155-LV	192552045650	Emergency backup driver
EMB-15	192552051194	Emergency driver 100-347V 15W 0-10V
EMB-25	192552051200	Emergency driver 100-347V 25W 0-10V

6" Round, CCT-Adjustable WFRL Edge-Lit Wafer



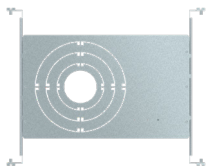
ACCESSORIES (cont'd)

Extension Cables



Catalog Number	UPC	Description
EXTCBL-FA-6	019813908502	6' Extension Cable for Wafer FA
EXTCBL-FA-12	019813908519	12' Extension Cable for Wafer FA
EXTCBL-FA-20	019813908526	20' Extension Cable for Wafer FA

Mounting Plates



DLPLATE/WFR3468/NB



DLPLATE/WFR3456



DLPLATE/WFR6/NB/CL



DLPLATE/WFR6

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

ORDERING INFO

Catalog Number	Model Number	UPC	Case Pack
WFRL6R139FA120BRZS	DLW0160(WFRL6R139FA120BRZS)	192552060516	6
WFRL6R139FA120BRZB	DLW0161(WFRL6R139FA120BRZB)	192552060523	6
WFRL6R139FA120BS	DLW0130(WFRL6R139FA120BS)	192552048019	6
WFRL6R139FA120BB	DLW0131(WFRL6R139FA120BB)	192552048026	6
WFRL6R139FA120WB	DLW0056(WFRL6R139FA120WB)	19813682488	6
WFRL6R139FA120WBS	DLW0095(WFRL6R139FA120WBS)	192552024273	6
WFRL6R139FA120WS	DLW0055(WFRL6R139FA120WS)	19813682471	6
WFRL6R149FA120WB	DLW0077(WFRL6R149FA120WB)	192552013475	6
WFRL6R149FA120WS	DLW0076(WFRL6R149FA120WS)	192552013468	6

ORDERING MATRIX

Family	Size	Shape	Wattage		CRI/Color Temp		Driver		Finish		Trim		Trim Depth	
WFRL	6	R			9FA		120							
	6 6"	R Round	13 14	13W 14W	9FA	90CRI; CCT-Adjustable	120	120V; TRIAC/ELV	W B* BRZ*	White Black Black	S B	Smooth Baffle	Blank S**	Standard Shallow

*Only available in 12W

*Only available in 13W

**Only available in 13W w/smooth trim

8" Round, CCT-Adjustable WFRL Edge-Lit Wafer



Smooth

Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:



8", Smooth & Baffle, CCT Adjustable, 120V, TRIAC Dimmable



KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- 5 Selectable CCTs (2700/3000/3500/4000/5000K)
- 120V TRIAC dimmable driver down to 10%
- IC Rated, air tight, wet location and Energy Star

PERFORMANCE

Catalog Number	Size	Trim	Equivalency	Input Wattage	Lumens	Efficacy	Color Temperature	L70 Lifetime
WFRL8R239FA120WB	8"	Baffle	150W Incandescent	23W	2100 lm	83 lm/W	Field-Adjustable 2700/3000/3500/4000/5000K	50,000 hrs
WFRL8R239FA120WS		Smooth						

PHOTOMETRICS

Catalog Number	Wattage	Lumens (lm)					Efficacy (lm/W)					Equivalency
		2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	
WFRL8R239FA120WB	23W	1940	2015	2144	2191	2147	84	88	93	95	93	150W Incandescent
WFRL8R239FA120WS		1951	2024	2157	2205	2157	85	88	94	96	94	

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Product Type

Slim canless wafer downlights

Size

8"

Shape

Round

Trim Style

Smooth or baffle

Enclosure Material

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

Finish

White

Lens Finish

Polycarbonate

REMOTE DRIVER CONSTRUCTION

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*)

LED CHARACTERISTICS

Beam Angle

110°

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 50

Color Consistency

<4-step (2700K & 5000K) 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.

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.

ELECTRICAL

Dimmable

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

Power Factor

≥0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-4°F to 104°F (-20°C to 40°C)

THD

≤20%

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

Plenum Rated

Classified by UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.

Energy Star Approved

This product is ENERGY STAR® Certified.

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

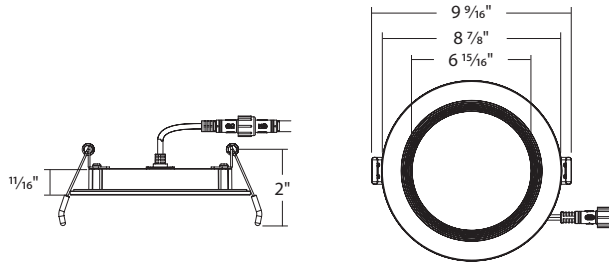
Mercury and UV free. RoHS-compliant components.

8" Round, CCT-Adjustable WFRL Edge-Lit Wafer

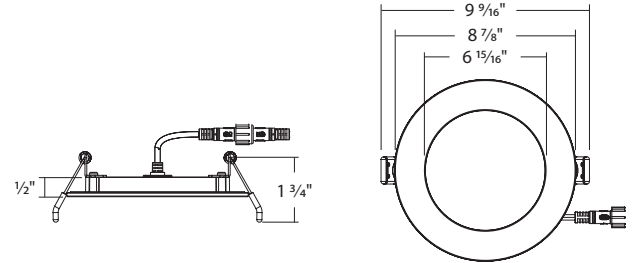


DIMENSIONS

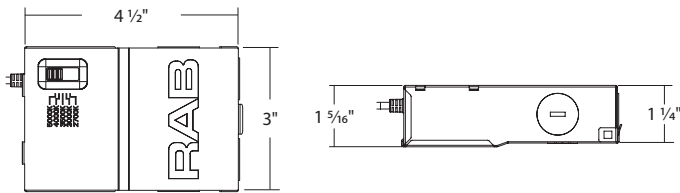
Baffle, Round



Smooth, Round



Driver/Junction Box

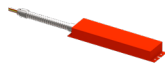


ACCESSORIES

Emergency Driver



DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



EMB-25



DRI-EMB-15S-LV

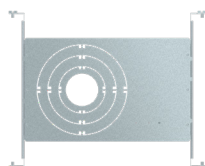
Catalog Number	UPC	Description
DRI-25-EMGR-DC	19813519180	Emergency driver 100-277V 25W
DRI-21-EMGR-DC-D10	192552028264	Emergency driver 100-277V 21W 0-10V T20
DRI-EMB-15S-LV	192552045650	Emergency backup driver
EMB-25	192552051200	Emergency driver 100-347V 25W 0-10V

Extension Cables



Catalog Number	UPC	Description
EXTCBL-FA-6	019813908502	6' Extension Cable for Wafer FA
EXTCBL-FA-12	019813908519	12' Extension Cable for Wafer FA
EXTCBL-FA-20	019813908526	20' Extension Cable for Wafer FA

Mounting Plates



Catalog Number	UPC	Description
DLPLATE/WFR3468/NB	192552000673	Mounting plate for 3", 4", 6", 8" with nailer bar

8" Round, CCT-Adjustable WFRL Edge-Lit Wafer

RAB

ORDERING INFO			
Catalog Number	Model Number	UPC	Case Pack
WFRL8R239FA120WB	DLW0064(WFRL8R239FA120WB)	192552013482	4
WFRL8R239FA120WS	DLW0065(WFRL8R239FA120WS)	192552013499	4

ORDERING MATRIX																
Family		Size		Shape		Wattage		CRI/Color Temp		Driver		Finish		Trim		
WFRL		8		R		23		9FA		120		W				
8	8"	R	Round	23	23W	9FA	90CRI; CCT-Adjustable			120	120V; TRIAC/ELV		W	White	S B	Smooth Baffle

CCT- Adjustable WFRL Edge-Lit Wafer

Dimmer Compatibility List



Number	Dimmer Brand	Dimmer Catalog Number	Dimmer compatibility						
			1 Lamp	2 Lamps	3 Lamps	4 Lamps	5 Lamps	6 Lamps	Range
1	LUTRON	SCL-153P	✓	✓	✓	✓	✓	✓	10%
2	LUTRON	DVCL-153P	✓	✓	✓	✓	✓	✓	10%
3	LEGRAND	DCL453PTCCCV6	✓	✓	✓	✓	✓	✓	10%
4	LUTRON	TGCL-153PH-WH	✓	✓	✓	✓	✓	✓	10%
5	LEVITON	R50-IPL06-10M	✓	✓	✓	✓	✓	✓	10%
6	LUTRON	DVWCL-153PH-WH	✓	✓	✓	✓	✓	✓	10%
7	RAB	XDIM[/LCB][S]	✓	✓	✓	✓	✓	✓	10%