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

Smooth

Baffle

PROJECT:

DATE:

TYPE:

PREPARED BY:

## 3", Smooth & Baffle, CCT Adjustable, 120V, Triac Dimmable

FIELD ADJUSTABLE | 90 CRI | IC RATED | AIRTIGHT | WET RATED | 50,000 HOURS | 120V | TRIAC/ELV DIMMING

## 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 | 40W Incandescent | 6W | 500 lm | 83 lm/W | | |

## PHOTOMETRIC

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

## TECHNICAL SPECIFICATIONS

### MODULE CONSTRUCTION

**Product Type**
Slim canless wafer downlights

**Size**
3"

**Shape**
Round

**Trim Style**
Smooth or baffle

**Finish**
White

**Lens Finish**
Polycarbonate

**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 *(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.

### ELECTRICAL

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

**Driver**
Constant Current, Class 2 60 Hz; 120V: 54 mA

**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

**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.

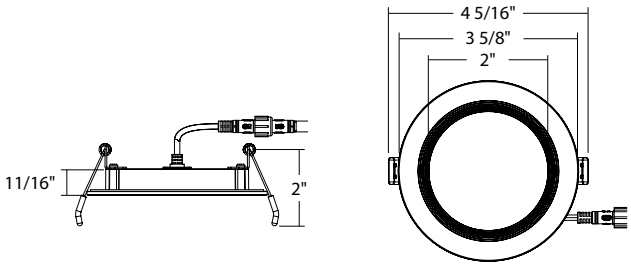
### OTHER

**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.

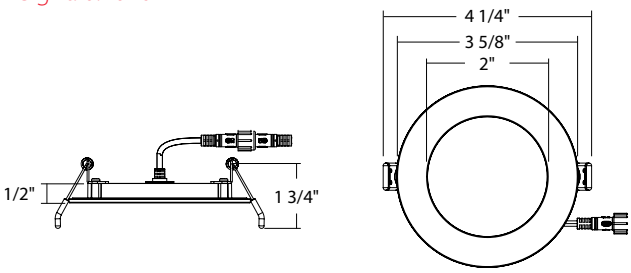
# 3" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## DIMENSIONS

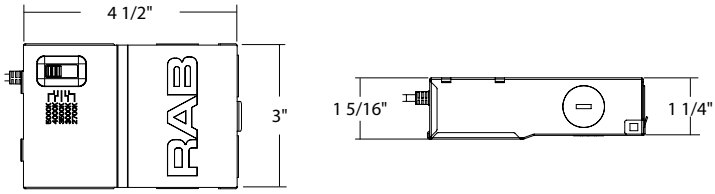
### Baffle, Round
Weight: 0.68 lb




### Smooth, Round
Weight: 0.70 lb



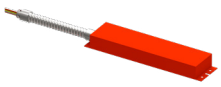

### Driver/Junction Box



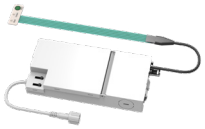

## ACCESSORIES

### Emergency Driver

DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



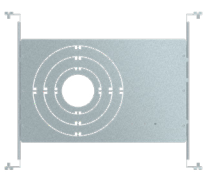
DRI-EMB-15S-LV

| 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 |

### 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

| 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 |

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

## ORDERING INFO

| Catelog Number | Model Number | UPC | Case Pack |
|---|---|---|---|
| WFRL3R69CCT120WB | **DLW0084(WFRL3R69CCT120WB)** | 192552018753 | 6 |
| WFRL3R69CCT120WS | **DLW0059(WFRL3R69CCT120WS)** | 192552013390 | 4 |

## ORDERING MATRIX

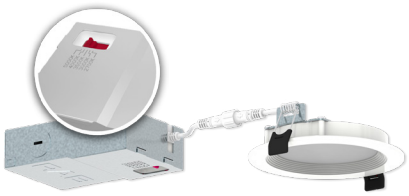
| Family | Size | Shape | Wattage | CRI/Color Temp | Driver | Finish | Trim |
|---|---|---|---|---|---|---|---|
| WFRL | 3 | R | 6 | 9CCT | 120 | W | |
| | **3** 3" | **R** Round | **6** 6W | **9CCT** 90CRI; 2700/3000/3500/4000/5000K | **120** 120V; TRIAC/ELV | **W** White | **S** Smooth<br>**B** Baffle |

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

Smooth

Baffle

Shallow Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:

## 4", Smooth & Baffle, CCT Adjustable, 120V, Triac Dimmable

FIELD ADJUSTABLE | 90 CRI | IC RATED | AIRTIGHT | WET RATED | 50,000 HOURS | 120V | TRIAC/ELV DIMMING

## KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- Available in black or white *(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

## PERFORMANCE

| Catalog Number | Color | Trim | Input Wattage | Lumens | Efficacy | Equivalency | Color Temperature | L70 Lifetime |
|---|---|---|---|---|---|---|---|---|
| WFRL4R99FA120BS | Black | Smooth | 9W | 800 lm | 87 lm/W | 60W Incandescent | Field-Adjustable 2700/3000/3500/4000/5000K | 50,000 hrs |
| WFRL4R99FA120BB | | Baffle | 9W | 800 lm | 87 lm/W | | | |
| WFRL4R99FA120WB | White | Baffle | 9W | 750 lm | 83 lm/W | | | |
| WFRL4R99FA120WBS | | Shallow Baffle | 9W | 750 lm | 83 lm/W | | | |
| WFRL4R99FA120WS | | Smooth | 9W | 750 lm | 83 lm/W | | | |
| WFRL4R10.59FA120WB | White | Baffle | 10.5W | 1000 lm | 83 lm/W | | | |
| WFRL4R10.59FA120WS | | Smooth | 10.5W | 1000 lm | 83 lm/W | | | |

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

## PHOTOMETRIC

| Catalog Number | Wattage | CCT | Efficacy | Lumens |
|---|---|---|---|---|
| WFRL4R99FA120BS | 9W | 2700K | 80 lm/W | 715 lm |
| | | 3000K | 84 lm/W | 745 lm |
| | | 3500K | 90 lm/W | 781 lm |
| | | 4000K | 91 lm/W | 799 lm |
| | | 5000K | 90 lm/W | 802 lm |
| WFRL4R99FA120BB | 9W | 2700K | 80 lm/W | 718 lm |
| | | 3000K | 84 lm/W | 749 lm |
| | | 3500K | 90 lm/W | 786 lm |
| | | 4000K | 91 lm/W | 804 lm |
| | | 5000K | 90 lm/W | 807 lm |
| WFRL4R99FA120WS | 9W | 2700K | 77 lm/W | 696 lm |
| | | 3000K | 81 lm/W | 725 lm |
| | | 3500K | 82 lm/W | 735 lm |
| | | 4000K | 87 lm/W | 780 lm |
| | | 5000K | 84 lm/W | 760 lm |
| WFRL4R99FA120WBS | 9W | 2700K | 78 lm/W | 698 lm |
| | | 3000K | 81 lm/W | 728 lm |
| | | 3500K | 82 lm/W | 737 lm |
| | | 4000K | 87 lm/W | 785 lm |
| | | 5000K | 85 lm/W | 763 lm |
| WFRL4R99FA120WB | 9W | 2700K | 78 lm/W | 700 lm |
| | | 3000K | 81 lm/W | 729 lm |
| | | 3500K | 82 lm/W | 740 lm |
| | | 4000K | 87 lm/W | 786 lm |
| | | 5000K | 85 lm/W | 765 lm |
| WFRL4R10.59FA120WS | 10.5W | 2700K | 87 lm/W | 916 lm |
| | | 3000K | 91 lm/W | 960 lm |
| | | 3500K | 96 lm/W | 1,007 lm |
| | | 4000K | 97 lm/W | 1,020 lm |
| | | 5000K | 95 lm/W | 995 lm |
| WFRL4R10.59FA120WB | 10.5W | 2700K | 86 lm/W | 906 lm |
| | | 3000K | 90 lm/W | 950 lm |
| | | 3500K | 95 lm/W | 997 lm |
| | | 4000K | 96 lm/W | 1,010 lm |
| | | 5000K | 94 lm/W | 985 lm |

## TECHNICAL SPECIFICATIONS

### MODULE CONSTRUCTION

**Product Type**
Slim canless wafer downlights

**Size**
4"

**Shape**
Round

**Trim Style**
Smooth or baffle

**Finish**
White or black

**Lens Finish**
Polycarbonate

**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 *(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.

### ELECTRICAL

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

**Driver**
Constant Current, Class 2 60 Hz; 120V: 54 mA

**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

**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.

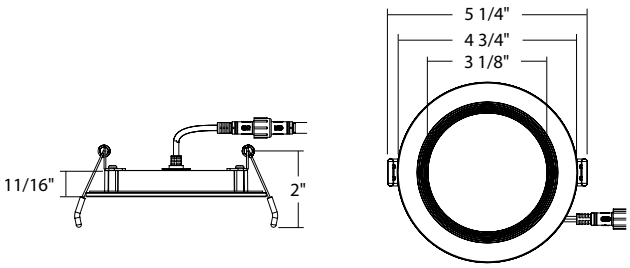
### OTHER

**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.

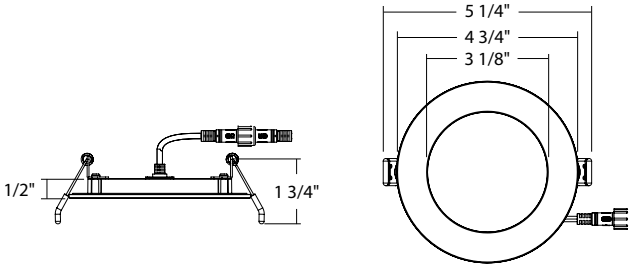
# 4" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## DIMENSIONS

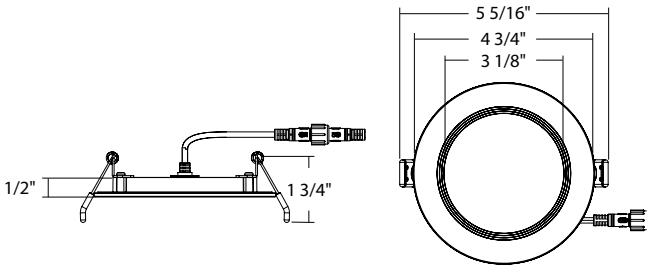
### Baffle, Round



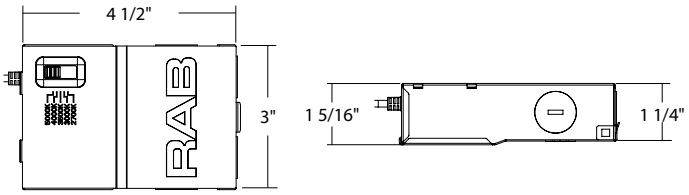

### Smooth, Round




### Shallow Baffle, Round




### Driver/Junction Box




## ACCESSORIES

### Color Trim

Black | Bronze | Brushed Nickel

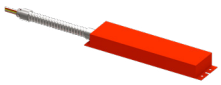
| Catalog Number | UPC | Description |
|---|---|---|
| WFRL-TRIM-4R-BS | 192552013659 | 4" Color trim round smooth black |
| WFRL-TRIM-4R-BRS | 192552013666 | 4" Color trim round smooth bronze |
| WFRL-TRIM-4R-BNS | 192552013673 | 4" Color trim round smooth brushed nickel |

### Goof Rings

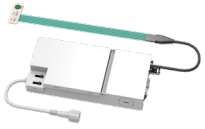
| Catalog Number | UPC | Description |
|---|---|---|
| WFRL-GOOF-4R-6R-W | 192552013604 | 4"-6" Goof ring round white |

### Emergency Driver

DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



DRI-EMB-15S-LV

| 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 |

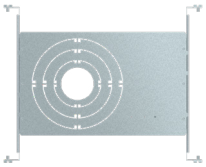
# 4" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## 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

| Catelog Number | Model Number | UPC | Case Pack |
|---|---|---|---|
| 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

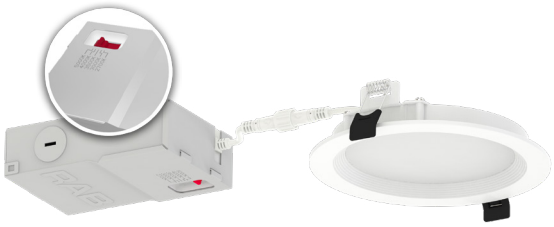
| Family | Size | Shape | Wattage | CRI/Color Temp | Driver | Finish | Trim | Trim Depth |
|---|---|---|---|---|---|---|---|---|
| WFRL | 4 | R | | 9FA | 120 | | | |
| | **4** 4" | **R** Round | **9** 9W<br>**10.5** 10.5W | **9FA** 90CRI; 2700/3000/3500/4000/5000K | **120** 120V; TRIAC/ELV | **W** White<br>**B** Black* | **S** Smooth<br>**B** Baffle | **Blank** Standard<br>**S** Shallow |

** Black finish only available on 4" 9W*

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

Smooth

Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:

## 5", Smooth & Baffle, CCT Adjustable, 120V, Triac Dimmable

FIELD ADJUSTABLE | 90 CRI | IC RATED | AIRTIGHT | WET RATED | 50,000 HOURS | 120V | TRIAC/ELV DIMMING

## 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

### MODULE CONSTRUCTION

**Product Type**
Slim canless wafer downlights

**Size**
5"

**Shape**
Round

**Trim Style**
Smooth or baffle

**Finish**
White

**Lens Finish**
Polycarbonate

**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 *(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.

### ELECTRICAL

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

**Driver**
Constant Current, Class 2 60 Hz; 120V: 54 mA

**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

**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.

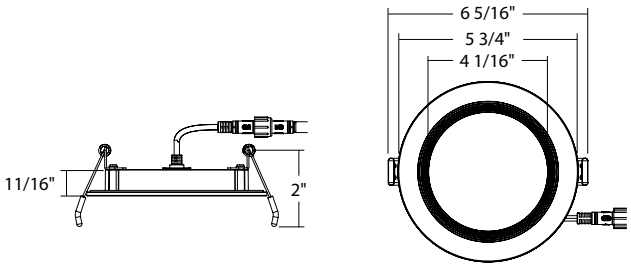
### OTHER

**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.

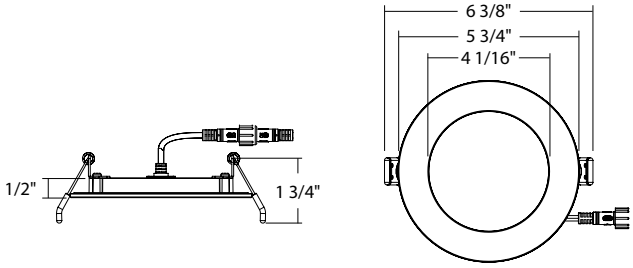
# 5" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## DIMENSIONS

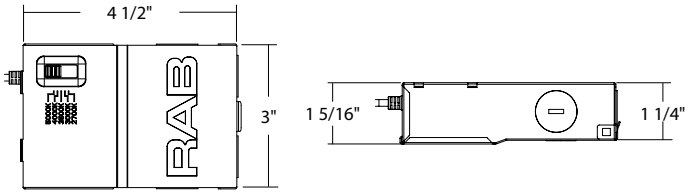
### Baffle, Round




### Smooth, Round



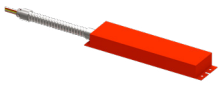

### Driver/Junction Box



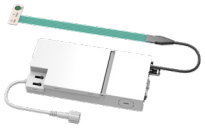

## ACCESSORIES

### Emergency Driver

DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



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 |

### 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 |

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

## ORDERING INFO

| Catelog Number | Model Number | UPC | Case Pack |
|---|---|---|---|
| WFRL5R129CCT120WB | **DLW0093(WFRL5R129CCT120WB)** | 192552022316 | 6 |
| WFRL5R129CCT120WS | **DLW0092(WFRL5R129CCT120WS)** | 192552022309 | 6 |

## ORDERING MATRIX

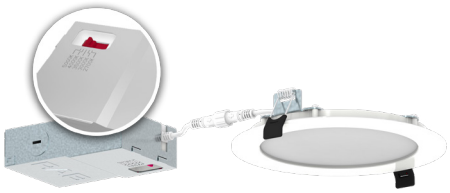
| Family | Size | Shape | Wattage | CRI/Color Temp | Driver | Finish | Trim |
|---|---|---|---|---|---|---|---|
| WFRL | 5 | R | 12 | 9CCT | 120 | W | |
| | **5** 5" | **R** Round | **12** 12W | **9CCT** 90CRI; 2700/3000/3500/4000/5000K | **120** 120V; TRIAC/ELV | **W** White | **S** Smooth<br>**B** Baffle |

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

Smooth

Baffle

Shallow Baffle



PROJECT:

DATE:

TYPE:

PREPARED BY:

## 6", Smooth & Baffle, CCT Adjustable, 120V, Triac Dimmable

FIELD ADJUSTABLE | 90 CRI | IC RATED | AIRTIGHT | WET RATED | 50,000 HOURS | 120V | TRIAC/ELV DIMMING

## KEY FEATURES

- Round, slim, canless downlights
- Smooth, baffle, and shallow baffle trims
- Available in black or white *(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

## PERFORMANCE

| Catalog Number | Color | Trim | Equivalency | Input Wattage | Lumens | Efficacy | Color Temperature | L70 Lifetime |
|---|---|---|---|---|---|---|---|---|
| WFRL6R139FA120BS | Black | Smooth | 75W Incandescent | 13W | 1,100 lm | 93 lm/W | Field-Adjustable 2700/3000/3500/4000/5000K | 50,000 hrs |
| WFRL6R139FA120BB | | Baffle | 75W Incandescent | 13W | 1,100 lm | 92 lm/W | | |
| WFRL6R139FA120WB | White | Baffle | 75W Incandescent | 13W | 1,100 lm | 85 lm/W | | |
| WFRL6R139FA120WS | | Smooth | 75W Incandescent | 13W | 1,100 lm | 85 lm/W | | |
| WFRL6R139FA120WBS | | Shallow Baffle | 75W Incandescent | 13W | 1,100 lm | 85 lm/W | | |
| WFRL6R149FA120WB | | Baffle | 100W Incandescent | 14W | 1,300 lm | 82 lm/W | | |
| WFRL6R149FA120WS | | Smooth | 100W Incandescent | 14W | 1,300 lm | 86 lm/W | | |

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

## PHOTOMETRIC

| Catalog Number | Wattage | CCT | Efficacy | Lumens |
|---|---|---|---|---|
| WFRL6R139FA120BS | 13W | 2700K | 87 lm/W | 1,064 lm |
| | | 3000K | 90 lm/W | 1,099 lm |
| | | 3500K | 95 lm/W | 1,154 lm |
| | | 4000K | 98 lm/W | 1,181 lm |
| | | 5000K | 96 lm/W | 1,182 lm |
| WFRL6R139FA120BB | 13W | 2700K | 86 lm/W | 1,060 lm |
| | | 3000K | 89 lm/W | 1,096 lm |
| | | 3500K | 94 lm/W | 1,152 lm |
| | | 4000K | 97 lm/W | 1,179 lm |
| | | 5000K | 95 lm/W | 1,180 lm |
| WFRL6R139FA120WS | 13W | 2700K | 77 lm/W | 1,005 lm |
| | | 3000K | 80 lm/W | 1,041 lm |
| | | 3500K | 86 lm/W | 1,115 lm |
| | | 4000K | 88 lm/W | 1,143 lm |
| | | 5000K | 87 lm/W | 1,134 lm |
| WFRL6R139FA120WBS | 13W | 2700K | 78 lm/W | 1,008 lm |
| | | 3000K | 80 lm/W | 1,046 lm |
| | | 3500K | 86 lm/W | 1,117 lm |
| | | 4000K | 88 lm/W | 1,148 lm |
| | | 5000K | 88 lm/W | 1,139 lm |
| WFRL6R139FA120WB | 13W | 2700K | 77 lm/W | 1,003 lm |
| | | 3000K | 80 lm/W | 1,042 lm |
| | | 3500K | 85 lm/W | 1,100 lm |
| | | 4000K | 88 lm/W | 1,140 lm |
| | | 5000K | 87 lm/W | 1,131 lm |
| WFRL6R149FA120WS | 14W | 2700K | 86 lm/W | 1,208 lm |
| | | 3000K | 87 lm/W | 1,214 lm |
| | | 3500K | 90 lm/W | 1,258 lm |
| | | 4000K | 91 lm/W | 1,275 lm |
| | | 5000K | 90 lm/W | 1,253 lm |
| WFRL6R149FA120WB | 14W | 2700K | 82 lm/W | 1,153 lm |
| | | 3000K | 84 lm/W | 1,169 lm |
| | | 3500K | 87 lm/W | 1,221 lm |
| | | 4000K | 88 lm/W | 1,233 lm |
| | | 5000K | 86 lm/W | 1,206 lm |

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

## TECHNICAL SPECIFICATIONS

### MODULE CONSTRUCTION

**Product Type**
Slim canless wafer downlights

**Size**
6"

**Shape**
Round

**Trim Style**
Smooth or baffle

**Finish**
White or black

**Lens Finish**
Polycarbonate

**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 *(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.

### ELECTRICAL

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

**Driver**
Constant Current, Class 2 60 Hz; 120V: 54 mA

**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

**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.

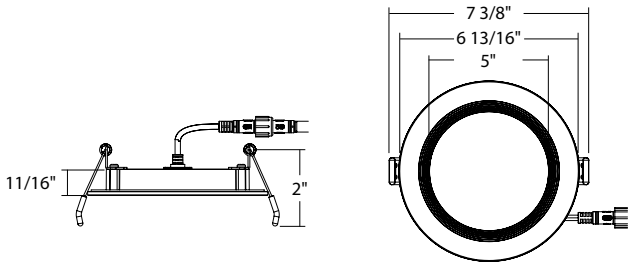
### OTHER

**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.

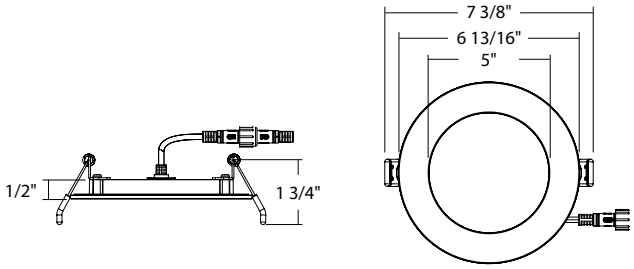
# 6" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## DIMENSIONS

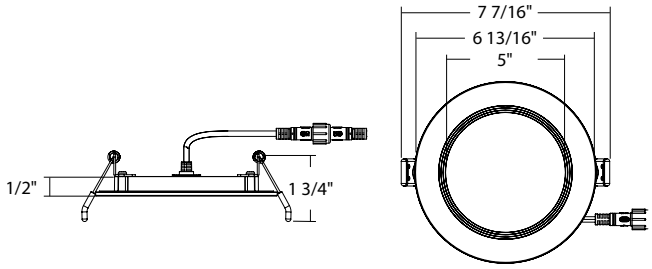
### Baffle, Round



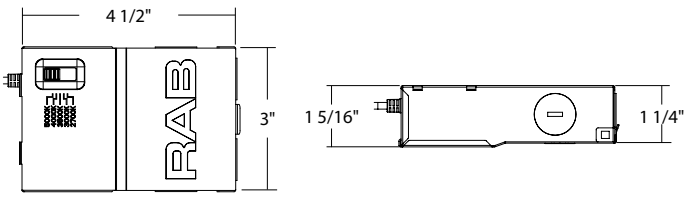

### Smooth, Round




### Shallow Baffle, Round




### Driver/Junction Box




## ACCESSORIES

### Color Trim

Black | Bronze | Brushed Nickel

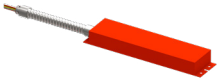
| Catalog Number | UPC | Description |
|---|---|---|
| WFRL-TRIM-6R-BS | 192552013680 | 6" Color trim round smooth black |
| WFRL-TRIM-6R-BRS | 192552013697 | 6" Color trim round smooth bronze |
| WFRL-TRIM-6R-BNS | 192552013703 | 6" Color trim round smooth brushed nickel |

### Goof Rings

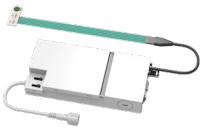
| Catalog Number | UPC | Description |
|---|---|---|
| WFRL-GOOF-6R-8R-W | 192552013611 | 6"-8" Goof ring round white |

### Emergency Driver

DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



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 |

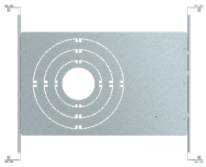
# 6" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## 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

| Catelog Number | Model Number | UPC | Case Pack |
|---|---|---|---|
| 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 13W<br>14 14W | 9FA 90CRI; 2700/3000/3500/4000/5000K | 120 120V; TRIAC/ELV | W White<br>B Black* | S Smooth<br>B Baffle | Blank Standard<br>S Shallow |

** Black finish only available on 6" 13W*

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

Smooth

Baffle

PROJECT:

DATE:

TYPE:

PREPARED BY:

## 8", Smooth & Baffle, CCT Adjustable, 120V, Triac Dimmable

FIELD ADJUSTABLE | 90 CRI | IC RATED | AIRTIGHT | WET RATED | 50,000 HOURS | 120V | TRIAC/ELV DIMMING

## 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 | | | | | | |

## PHOTOMETRIC

| Catalog Number | Wattage | CCT | Efficacy | Lumens |
|---|---|---|---|---|
| WFRL8R239FA120WB | 23W | 2700K | 84 lm/W | 1,940 lm |
| | | 3000K | 88 lm/W | 2,015 lm |
| | | 3500K | 93 lm/W | 2,144 lm |
| | | 4000K | 95 lm/W | 2,191 lm |
| | | 5000K | 93 lm/W | 2,147 lm |
| WFRL8R239FA120WS | 23W | 2700K | 85 lm/W | 1,951 lm |
| | | 3000K | 88 lm/W | 2,024 lm |
| | | 3500K | 94 lm/W | 2,157 lm |
| | | 4000K | 96 lm/W | 2,205 lm |
| | | 5000K | 94 lm/W | 2,157 lm |

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

## TECHNICAL SPECIFICATIONS

### MODULE CONSTRUCTION

**Product Type**
Slim canless wafer downlights

**Size**
8"

**Shape**
Round

**Trim Style**
Smooth or baffle

**Finish**
White

**Lens Finish**
Polycarbonate

**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 *(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.

### ELECTRICAL

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

**Driver**
Constant Current, Class 2 60 Hz; 120V: 54 mA

**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

**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.

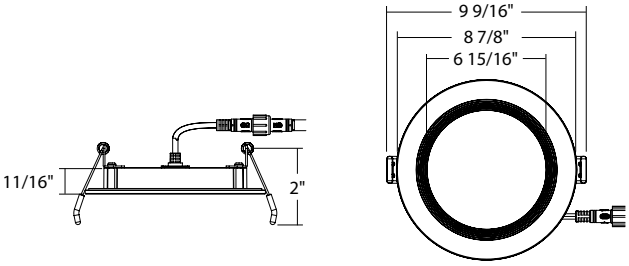
### OTHER

**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.

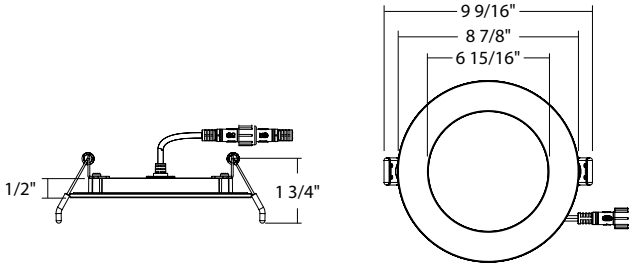
# 8" Round, CCT-Adjustable WFRL Edge-Lit Wafer

## DIMENSIONS

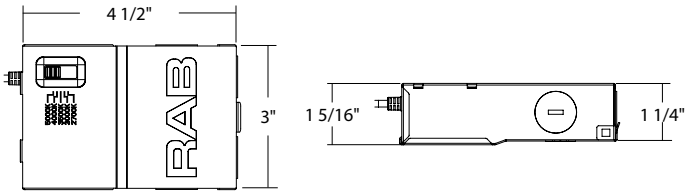
### Baffle, Round




### Smooth, Round



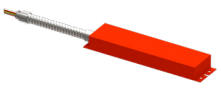

### Driver/Junction Box



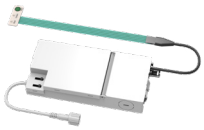

## ACCESSORIES

### Emergency Driver

DRI-25-EMGR-DC



DRI-21-EMGR-DC-D10



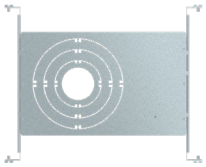
DRI-EMB-15S-LV

| 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 |

### 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 |

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

## ORDERING INFO

| Catelog 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; 2700/3000/3500/4000/5000K | **120** | 120V; TRIAC/ELV | **W** | White |
| | | | | | | | | | | | **S** | Smooth |
| | | | | | | | | | | | **B** | 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 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10% |