



FDNU™

RECESSED DOWNLIGHTS



HIGHLIGHTS

- Compact 2- and 3-inch apertures; 3-inch models deliver up to 1,700 lumens.
- Multiple light outputs to suit each space.
- Four color temperatures, from 2700K to 4000K, with 90+ CRI.
- Dim-to-warm technology transitions from 3000K to 2000K with 95+ CRI.
- Adjustable 360° rotation and up to 30° tilt for precise aiming.
- Dual dimming supports TRIAC and 0–10V, with 0–10V dimming down to 1%.
- Multiple beam options.
- Optional 3-inch smooth optics enhance visual comfort.
- Trimmed and trimless styles integrate with drywall, plaster, and wood ceilings.
- Multiple trim styles include pinhole, oval, wall wash, and decorative options.
- Remodel and new-construction mounting options include IC-rated housings for insulated ceilings.
- Optional waterproof plates enable wet-rated configurations with compatible trims.
- Optional emergency battery backup



DIMENSIONS

see page 3-6 for additional details



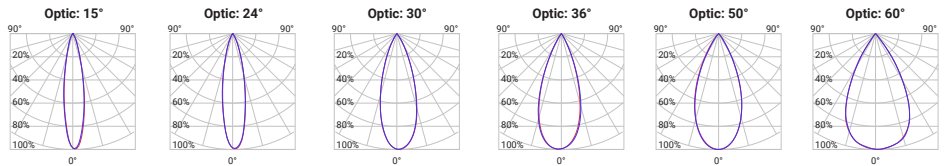
PERFORMANCE

Data shown as CCT: 3000 K / CRI 90+. Delivered lumens and efficacy by aperture, optic and selectable wattage.

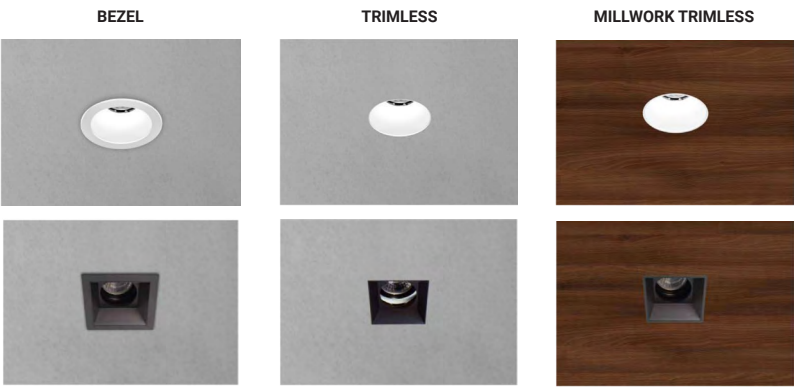
Power (W)	Aperture: 2R / 2-inch round				Aperture: 3R / 3-inch round		Aperture: 3S / 3-inch square	
	Optic: 30D / 30°		Optic: 50D / 50°		Optic: 24D / 24°		Optic: 24D / 24°	
	Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
5	335	67	365	73	475	95	475	95
8	544	68	592	74	800	100	768	96
10	670	67	740	74	990	99	950	95
13	832	64	910	70	1,235	95	1,183	91
16	976	61	1,072	67	1,456	91	1,390	87
19	-	-	-	-	1,690	89	1,615	85
DW 13 W max.	2-inch: 840 lm / 70 lm/W				3-inch family: 1,200 lm / 95 lm/W			

Aperture: 2R = 2-inch round; 3R = 3-inch round; 3S = 3-inch square. A dash indicates an unavailable configuration.
CCT values are based on 3000 K, CRI 90+ and white trim; Output may vary by ±5% with CCT, beam angle, holder, trim shape and finish.
DW = dim to warm, 3000-2000 K, CRI 95+, 13 W maximum. DW figures are source-reported size-level maximums; no beam angle or trim shape is specified.

DISTRIBUTIONS



CEILING APPEARANCES



ORDERING

Build the ordering number with bold codes. 01–09 required; 10–11 optional. Check A/B/C compatibility.

ORDERING NUMBER

FAMILY	01 APERTURE & SHAPE A B	02 BEZEL	03 WATTAGE A B C	04 DIMMING	05 CCT & CRI C
FDNU	-	-	-	-	-
	2R 2" Round 3R 3" Round 3S 3" Square	W White Bezel B Black Bezel L Trimless M Millwork Trimless	5W 5 W 8W 8 W 10W 10 W 13W 13 W 16W 16 W 19W 19 W	DT1 0-10 V (1%) Dimming at 120-277 V, or TRIAC Dimming at 120 V	927 2700K, 90+CRI 930 3000K, 90+CRI 935 3500K, 90+CRI 940 4000K, 90+CRI DW 3000K to 2000K, Dim to Warm, 95+CRI

06 OPTICS A

07 TILT A

08 TRIM A B

Select one trim code from the groups below.

15D15° Optic

18S18° Optic, Smooth

24D24° Optic

24S24° Optic, Smooth

30D30° Optic

36D36° Optic

38S38° Optic, Smooth

50D50° Optic

50S50° Optic, Smooth

60D60° Optic

NA

No Tilt

TA

Tilt Adjustable, up to 30°

STANDARD ROUND

Code	Finish
RDWH	White
RDBK	Black
RDGD	Gold
RDCR	Chrome

STANDARD SQUARE

Code	Finish
SQWH	White
SQBK	Black
SQGD	Gold
SQCR	Chrome

PINHOLE ROUND

Code	Trim finish	Cover
PRWW	White	White
PRBW	Black	White
PRGW	Gold	White
PRCW	Chrome	White
PRWB	White	Black
PRBB	Black	Black
PRGB	Gold	Black
PRCB	Chrome	Black

PINHOLE OVAL

Code	Trim finish	Cover
POWW	White	White
POBW	Black	White
POGW	Gold	White
POCW	Chrome	White
POWB	White	Black
POBB	Black	Black
POGB	Gold	Black
POCB	Chrome	Black

WALL WASH

Code	Shape	Finish
WWRW	Round	White
WWSW	Square	White
WWRB	Round	Black
WWSB	Square	Black

09 MOUNTING

10 TRIM LENS

OPTIONAL

B

None - leave blank (no trim lens). Applies to both groups below.

ACCESSORIES

Code	Description
HCB	Honeycomb Louver
WRL	Wet Rated Lens

AMBIENT LENSES

Lens color	Black cover	White cover
Transparent	ATB	ATW
Red	ARB	ARW
Green	AGB	AGW
Blue	ABB	ABW
Yellow	AYB	AYW

11 EMERGENCY

OPTIONAL

None - leave blank

EM

Emergency backup
20 W, 90 min

Select one lens code below, or leave blank.

COMPATIBILITY CHECK - ALL APPLICABLE TABLES MUST PASS

A APERTURE COMPATIBILITY / SUPPORTED SELECTIONS

✓ Pair permitted × Excluded.

Aperture	Wattage	Optics	Tilt	Trim
2-inch round (2R)	5, 8, 10, 13, 16 W	30° (30D) or 50° (50D)	Adjustable (TA)	Standard round (RD)
3-inch round (3R)	5, 8, 10, 13, 16, 19 W	All except 30D and 50D	No Tilt (NA) or Adjustable (TA)	Round (RD), pinhole (PR/PO), round wall-wash (WWR)
3-inch square (3S)	5, 8, 10, 13, 16, 19 W	All except 30D and 50D	No Tilt (NA) or Adjustable (TA)	Square (SQ), square wall-wash (WWS)

B TRIM / LENS COMPATIBILITY

Trim family / code prefix	Ambient lens	Wet-rated lens
Standard round (RD)	Conditional ¹	✓
Standard square (SQ)	×	✓
Pinhole (PR/PO)	×	×
Wall-wash (WWR/WWS)	×	×

Code prefixes identify trim families. Enter the complete trim code from field 08.

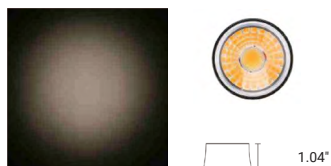
C CCT / WATTAGE COMPATIBILITY

CCT	5 W	8 W	10 W	13 W	16 W	19 W
2700-4000 K	✓	✓	✓	✓	✓	✓
Dim-to-warm (DW)	✓	✓	✓	✓	×	×

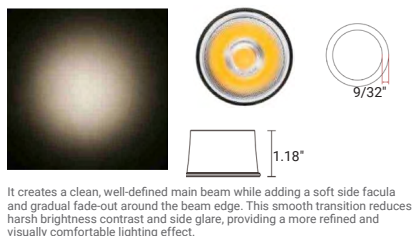
¹ Ambient lenses require standard round trim (RD), plus:
2R (2-inch round): 5, 8 or 10 W; OR
3R (3-inch round): 5, 8, 10, 13 or 16 W.

OPTICS & TRIM FAMILIES

OPTIC: D / STANDARD



OPTIC: S / SMOOTH



Aperture Optic codes / beam angles

2R	30D (30°); 50D (50°)
3R / 3S	15D / 24D / 36D / 60D; 18S / 24S / 38S / 50S

Tilt option: **TA**, up to 30° with 360° rotation.

Tilt option: **NA**, no tilt (**3R / 3S** only).



TRIM FAMILIES & LIGHT-EMITTING APERTURES

STANDARD ROUND

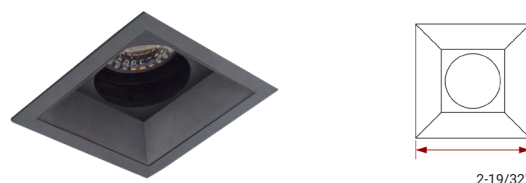


Trim: **RDWH / RDBK / RDGD / RDCR**

White / black / gold / chrome

Aperture: **2R / 3R**

STANDARD SQUARE

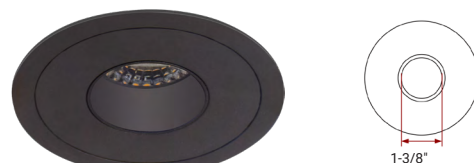


Trim: **SQWH / SQBK / SQGD / SQCR**

White / black / gold / chrome

Aperture: **3S**

ROUND PINHOLE



Trim: **PRWW / PRBW / PRGW / PRCW**
PRWB / PRBB / PRGB / PRCB

Inner: white / black / gold / chrome. Cover: **W / B**.

Aperture: **3R**

OVAL PINHOLE



Trim: **POWW / POBW / POGW / POCW**
POWB / POBB / POGB / POCB

Inner: white / black / gold / chrome. Cover: **W / B**.

Aperture: **3R**

ROUND WALL WASH

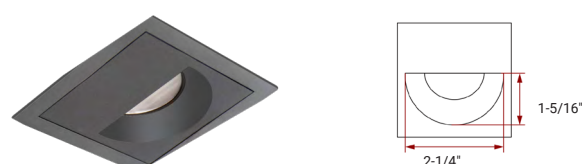


Trim: **WWRW / WWRB**

White / black

Aperture: **3R**

SQUARE WALL WASH



Trim: **WWSW / WWSB**

White / black

Aperture: **3S**

AMBIENT LENSES / STANDARD ROUND TRIMS

Black / white cover



Drawings: 3-inch apertures. Ambient lenses: aperture **2R** up to 10 W; **3R** up to 16 W. Lens **HCB / WRL**: trims **RD / SQ**.

STANDARD & TRIMLESS DIMENSIONS

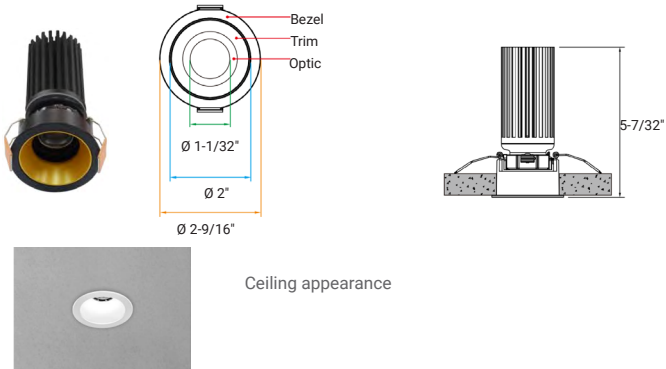
Dimensions in inches. **W / B** = white / black bezel; **L** = trimless. Refer to the ordering matrix for supported combinations.

Dimension	Aperture: 2R		Aperture: 3R		Aperture: 3S	
	Bezel: W / B	Bezel: L	Bezel: W / B	Bezel: L	Bezel: W / B	Bezel: L
Ceiling cutout	Ø 2-1/4"	Ø 3-1/2"	Ø 3"	Ø 3-1/2"	3" × 2-7/8"	3-1/2" × 3-5/16"
Bezel / mounting plate	Ø 2-9/16"	6-3/32" × 3-7/16"	Ø 3-9/32"	6-3/32" × 3-7/16"	3-11/32" × 3-11/32"	6-3/32" × 3-7/16"
Overall height	5-7/32"	5-7/32"	5-11/16"	5-11/16"	5-31/32"	6-5/32"

Aperture **2R** / bezel **W / B**: spring clips; aperture **2R** / bezel **L**: service from above ceiling. Opening: round (**2R** / **3R**); rectangular (**3S**).

APERTURE: 2R / BEZEL: W / B

Round with bezel

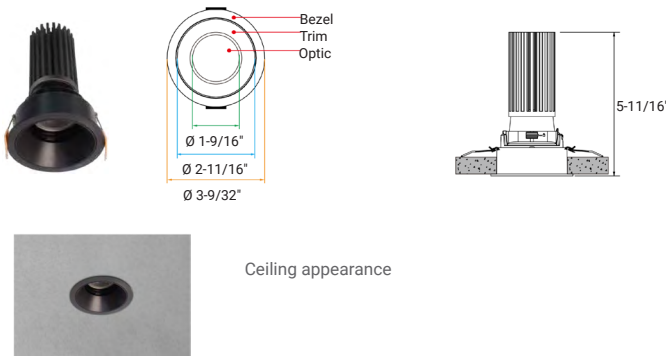


APERTURE: 2R / BEZEL: L



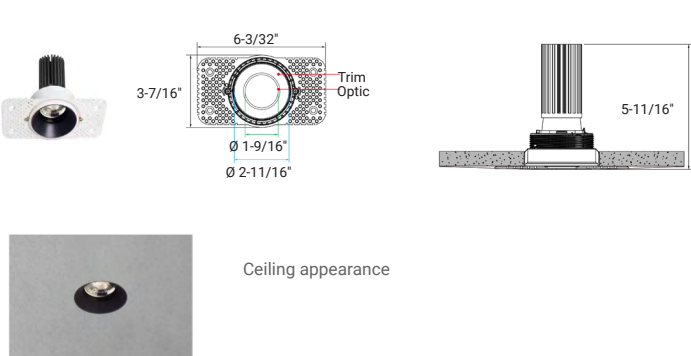
APERTURE: 3R / BEZEL: W / B

Round with bezel



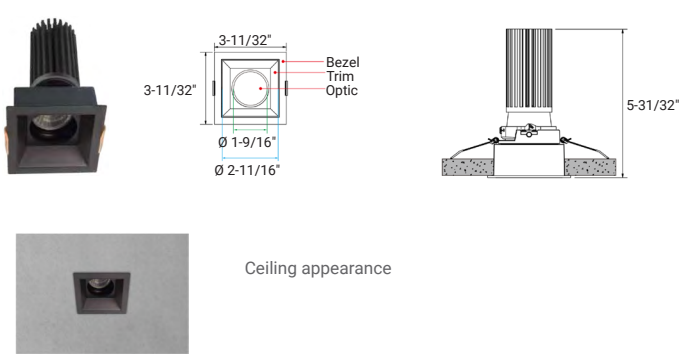
APERTURE: 3R / BEZEL: L

Round trimless



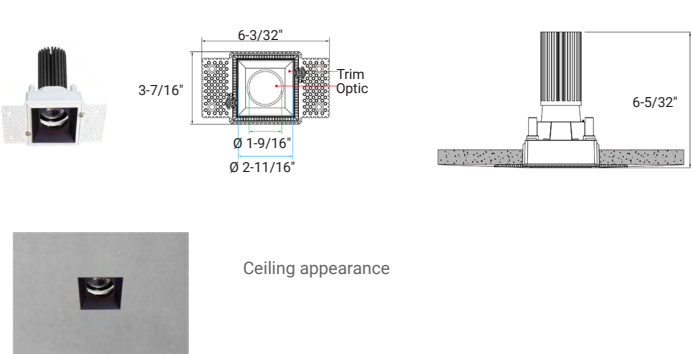
APERTURE: 3S / BEZEL: W / B

Square with bezel



APERTURE: 3S / BEZEL: L

Square trimless

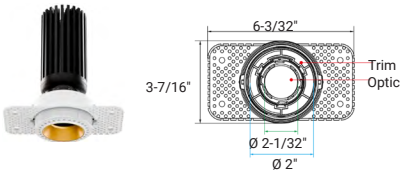


MILLWORK TRIMLESS DIMENSIONS

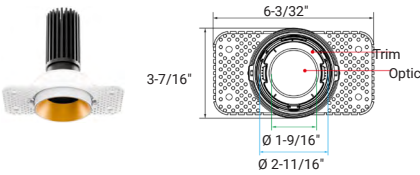
Dimensions in inches. Bezel **M**: millwork trimless. Ceiling thickness: 1/8" to 1". Leave a 1/8" material lip around the through-hole.

Aperture / bezel	Recessed pocket	Through-hole	Height	Mounting plate
2R + M	Ø greater than 3"	Ø 2-1/16"	5-7/32"	6-3/32" × 3-7/16"
3R + M	Ø greater than 3"	Ø 2-11/16"	5-11/16"	6-3/32" × 3-7/16"
3S + M	Greater than 3" × 3"	2-11/16" × 2-11/16"	6-5/32"	6-3/32" × 3-7/16"

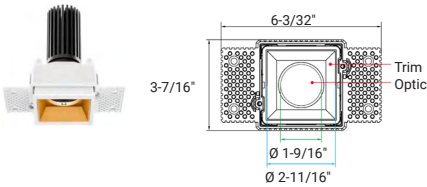
APERTURE: 2R / BEZEL: M



APERTURE: 3R / BEZEL: M



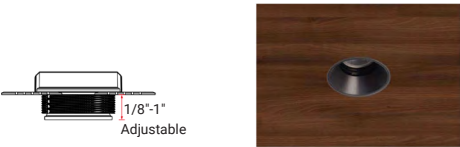
APERTURE: 3S / BEZEL: M



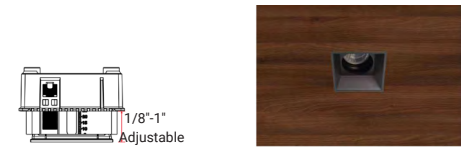
ADJUSTABLE INTERFACE



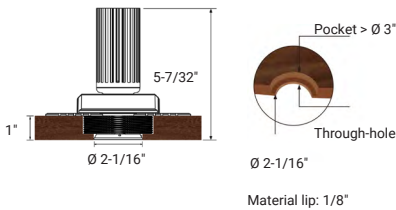
ADJUSTABLE INTERFACE



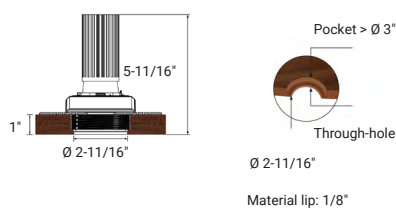
ADJUSTABLE INTERFACE



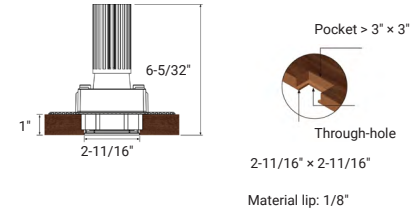
SECTION / POCKET DETAIL



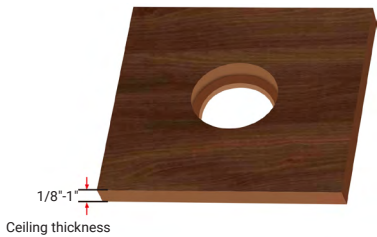
SECTION / POCKET DETAIL



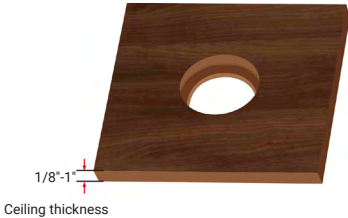
SECTION / POCKET DETAIL



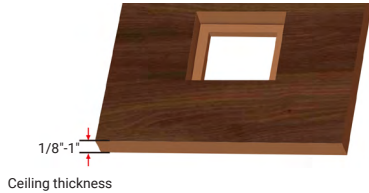
CEILING PREPARATION



CEILING PREPARATION



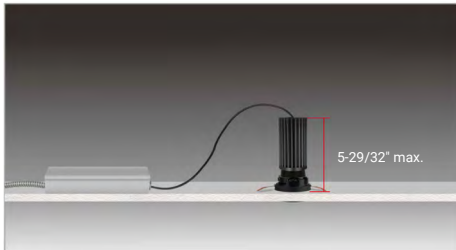
CEILING PREPARATION



MOUNTING

Aperture: **2R** / **3R** / **3S**. Mounting: **RE** / **NC** / **IC**. Emergency option: **EM** (20 W / 90 min). Dimensions in inches.

MOUNTING: RE / RETROFIT / NON-IC



Install from below in existing ceilings. Cut the opening and secure the luminaire with spring clips. Applies to **2R**, **3R** and **3S**.

MOUNTING: NC / NEW CONSTRUCTION



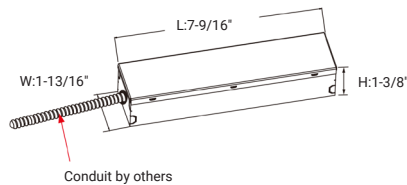
Non-IC frame; install from above. The remote driver attaches magnetically to the rough-in frame. For **2R**, **3R** and **3S**.

MOUNTING: IC / INSULATED HOUSING



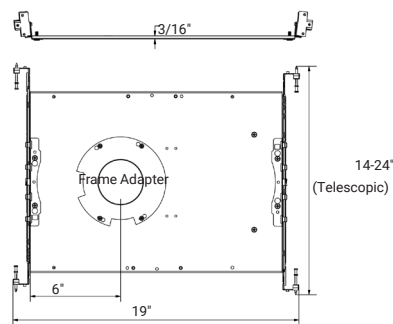
IC-rated housing; install from above. Suitable for direct contact with insulation. For **2R**, **3R** and **3S**.

REMOTE DRIVER BOX



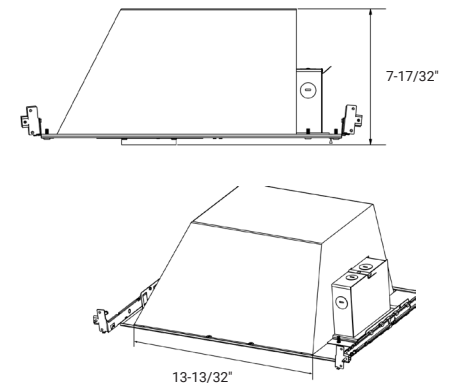
One luminaire per driver.
Conduit supplied by others.

NC / IC FRAME FOOTPRINT



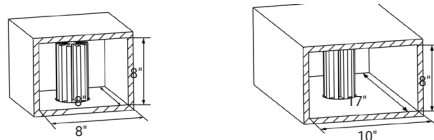
NC: 14-24" L × 19" W × 8" H.
Hanger bars: 14-24" telescopic.

IC HOUSING & CLEARANCE



IC space: 14-24" L × 19" W × 7-5/16" H.
Overall housing height: 7-17/32".

MINIMUM RETROFIT CLEARANCE



5 / 8 / 10 W: 8" × 8" × 8" min.

2R at 13 / 16 W; **3R** / **3S** at 13 / 16 / 19 W:
17" × 10" × 8" min.



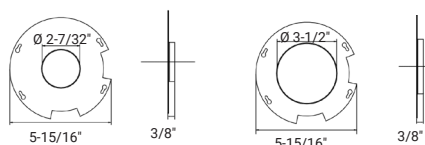
Mounting: **NC** | Emergency: **EM**



Mounting: **IC** | Emergency: **EM**

NC/IC FRAME ADAPTER FOR ALL APERTURES

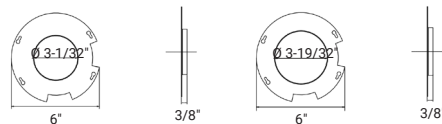
Aperture: **2R** / round



Bezel: **W** / **B**

Bezel: **L**

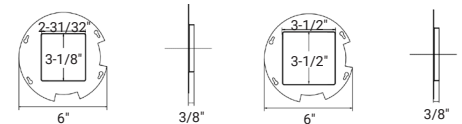
Aperture: **3R** / round



Bezel: **W** / **B**

Bezel: **L**

Aperture: **3S** / square



Bezel: **W** / **B**

Bezel: **L**

Adapter-plate openings are shown above. For luminaire ceiling cutouts and trimless preparation, see pages 4-5.

TECHNICAL SPECIFICATIONS

COMPLIANCE

Listings

cULus listed for damp locations. For interior use only.

Wet-location option

Lens: **WRL** for wet locations, with compatible standard round or square trims.

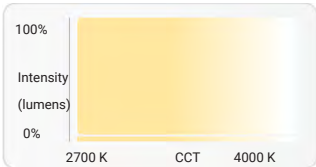
PHOTOMETRIC CHARACTERISTICS

LED light engine

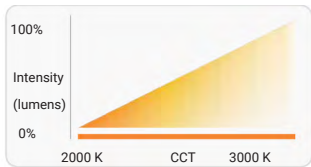
High-efficiency COB LEDs.

Correlated color temperature

CCT: **927 / 930 / 935 / 940** = 2700 / 3000 / 3500 / 4000 K.
CCT: **DW** dims from 3000 K to 2000 K.



FIXED CCT



DIM TO WARM

Color rendering

Fixed CCT: CRI 90+. Dim to warm: CRI 95+.

Beam distribution

reflector-style optics; see optic selections.

OTHER

Five-year warranty

The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

**PacLights's warranty is subject to all terms and conditions found at paclights.com/warranty

CONSTRUCTION

Housing and finish

Forged aluminum housing serves as the heat sink. White or black powder-coated bezels; multiple trim finishes.

Trim attachment

Twist-and-lock trim attachment and spring tension clips provide flush ceiling installation.

Mounting options / IC rating

Mounting: **RE** retrofit (non-IC); **NC** frame (non-IC); **IC** insulated housing (IC-rated).
Bezel: **L** drywall trimless; **M** millwork trimless.

Ambient operating temperature

-20 °C to +40 °C (-4 °F to +104 °F). Ambient temperature at the luminaire must not exceed 40 °C. Stated heat-sink temperature: 60-70 °C.

ELECTRICAL

Driver

High-efficiency Class 2 LED driver with thermal overload protection.

Dimming: **DT1** / input voltage

0-10 V dimming to 1% at 120-277 V AC, or TRIAC dimming at 120 V AC. Power factor >0.9; THD <20%.

Field-selectable wattage

Aperture **2R**: 5 / 8 / 10 / 13 / 16 W.
Aperture **3R / 3S**: 5 / 8 / 10 / 13 / 16 / 19 W.
CCT **DW**: 5 / 8 / 10 / 13 W only.

DIMMER COMPATIBILITY

Manufacturer	Dimming method	
	0-10 V	TRIAC
Leviton	DD710; IP710	6683; 6672
Lutron	NTSTV-DV; DVSTV	DV600P; DVCL-153P; DV603P; S-603P; LG-600P; MSCL-DP153M; TGCL-153DH; SCL-153P; CTCL-153P; CT-603PG
Legrand	RH4FBL3	not tested