

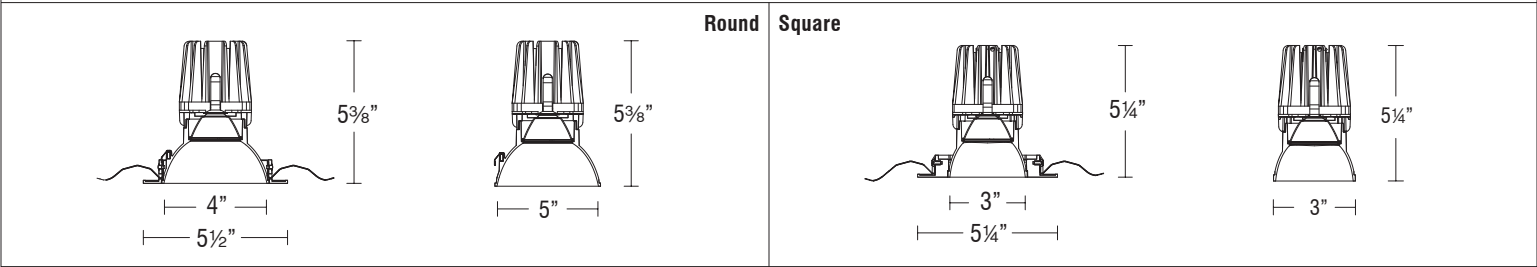
FQ Tunable White
4" Downlight

R4FRDT | R4FRDL | R4FSDT | R4FSDL

Fixture Type: _____
Project: _____
Catalog#: _____
Location: _____



LINE DRAWING



PRODUCT DESCRIPTION

FQ (Function + Quality) Experience simplicity and versatility with FQ 4" recessed luminaires. The fixtures merge modern design with world-class performance to achieve the ultimate in function and flexibility. Enjoy the benefits of two fixtures in one with Tunable White 1800-4000K and Dim-to-Warm 3000K-1800K features built into each luminaire, allowing you to customize the best light to illuminate dining areas, great rooms, primary bedrooms, kitchens, and baths on the fly. Deep regressed light sources deliver a glare-free, quiet ceiling aesthetic for a clean architectural look while providing a robust output from a diminutive source.

SPECIFICATIONS

Construction:	Durable die-cast self flanged aluminum construction
Mounting:	Heavy gauge retention clips support trim firmly Ceiling cut out: Trim Ø 4 3/4" ○ Trimless Ø 4 3/4" ○ Accommodates 1/2" - 1" ceiling thickness
Light Source:	High output 3-step Mac Adam Ellipse COB Rated life of 50,000 hours at L70
Input:	Universal 120-277V AC, 50/60 Hz
Dimming:	2CH 0-10V, DMX512-A: 100-0.1%
Maximum Delivered Intensity:	Up to 4,814 cd (Round Narrow Flood 27°, 26W, 4000K, CRI 90)
Maximum Delivered Output:	Up to 1,887 lm (Round Wide Flood 55°, 26W, 4000K, CRI 90)
Operating Temperature:	-4°F to 104°F (-20°C to 40°C)
Standards:	ETL & cETL Wet location listed, Title 24 JA8 Compliant
Warranty:	5 year WAC Lighting guaranteed warranty

BEAM ANGLES



FINISHES



Model	Beam	Lumens	CBCP	Color Temp	CRI
R4FRDT Round Trim	N 27° Round	1610	4260	TW 1800K-4000K	90
R4FRDL Round Trimless	27° Square	1575	4090		
R4FSDT Square Trim	F 42° Round	1660	2865		
R4FSDL Square Trimless	42° Square	1650	2640		
	W 55° Round	1670	2100		
	55° Square	1640	2012		

Lumens and CBCP are reference values for a trim fixture with 3 housing set to 3000K Color Temperature. Refer to Multiplier Table in Performance Data to determine other outputs.

FQ Tunable White
4" Downlight

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ORDERING INFORMATION

CONFIGURATION TABLE		
Model	Color Temperature & CRI	Reflector Finish
R4FRDT R4FRDL R4FSDT R4FSDL	TWA - 1800K-4000K	BK - BLACK DB - DARK BRONZE HZ - HAZE HZWT - HAZE/WHITE WT - WHITE

R4FRDT-TWA-__

Example: R4FRDT-TWA-WT

ORDERING NOTES

1.

The “Haze/White” finish is only available on trimmed fixtures (R4FRDT, R4FSDT).
2.

The “Haze” finish is only available on trimless fixtures (R4FRDL, R4FSDL).
3.

Flood beam (F - 42°) reflector comes pre-installed. All three reflector options (N-27°, F-42°, and W-55°) are included.

Housings	Model	Control Options	Power
New Construction IC Airtight - Round & Square Trim	R4FBNT-TW	X DMX512-A Z 0-10V	1 14W IC 2 19W IC 3 26W IC
New Construction IC Airtight - Round Trimless	R4FRNL-TW	X DMX512-A Z 0-10V	1 14W IC 2 19W IC 3 26W IC
New Construction IC Airtight - Square Trimless	R4FSNL-TW	X DMX512-A Z 0-10V	1 14W IC 2 19W IC 3 26W IC
Remodel Non-IC Round Trimless	R4FRRL-TW	X DMX512-A Z 0-10V	1 13W Non-IC 2 19W Non-IC 3 25W Non-IC
Remodel Non-IC Square Trimless	R4FSRL-TW	X DMX512-A Z 0-10V	1 13W Non-IC 2 19W Non-IC 3 25W Non-IC
Remodel IC Round & Square Trim	R4FBR2T-TW	X DMX512-A Z 0-10V	1 14W IC
Remodel Non-IC Round & Square Trim	R4FBRT-TW	X DMX512-A Z 0-10V	1 14W Non-IC 2 19W Non-IC 3 26W Non-IC

ACCESSORIES	
LENS-16-HCM	Honeycomb Louver
LENS-16P-CRL-BK	Cross Louver
LENS-16AMB	Amber Lens
LENS-16RED	Red Lens
LENS-16BLU	Blue Lens
LENS-16GRN	Green Lens
LENS-16SPR	Spread Lens
LENS-16BEL	Beam Elongating Lens

R4F__-TW_-_
Example: R4FBNT-TWX-2

FQ Tunable White
4" Downlight

R4FRDT | R4FRDL | R4FSDT | R4FSDL

Fixture Type:

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FEATURES

Optics: • High lumen output across the full Tunable White CCT range of 1800K - 4000K • Powerful glare control due to the fixtures 30° shielding angle, 45° vertical tilting, and 360° horizontal rotation	Construction: • Two piece die-cast aluminum constructed body and trim
LED: • High output COB LED with a 3-step Mac Adam ellipse • Rated operational life of 50,000 hours at L70 (LED maintains 70% of its initial delivered lumens when brand new for 50,000 hours of use.)	Trim and Reflector: • Reflectors with beam angles of 27°, 42°, and 55° are all included and swappable
Electrical: • Input power is universal 120-277VAC and 50/60 Hz • Available in 14W, 19W, and 26W power levels	Installation: • Light engine is mounted onto the trim using springs that allow for easy replacement • Heavy gauge retention clips firmly support the trim within the housing
Dimming: • DMX512-A and 2 Channel 0-10V dimming are available • DMX512-A and 2 Channel 0-10V dimming are both capable of a range of 100 - 0.1%	Warranty: • WAC Architectural limited warranty up to 5 years • Full warranty found at: waclighting.com/warranty
Notes: • The White, Black, and Dark Bronze finishes are all electrostatically powder coated • The Haze finish is enamel coated	

FQ Tunable White
4" Downlight

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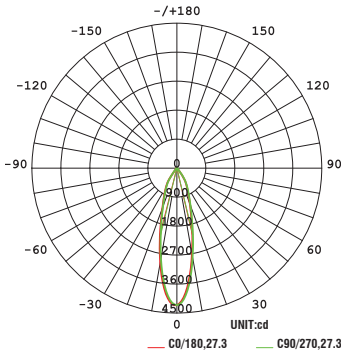
PERFORMANCE DATA

Polar Candela Distribution Charts

Samples shown from a trim fixture with 3 housing set to 3000K.

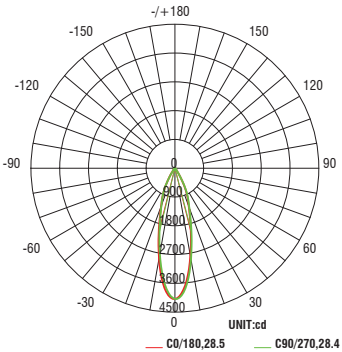
ROUND

Narrow Flood Beam: 27° Beam

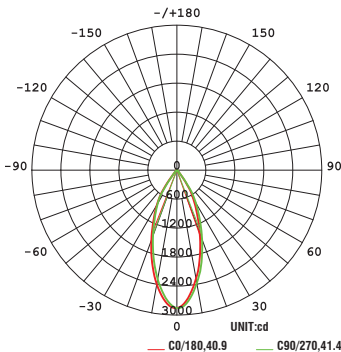


SQUARE

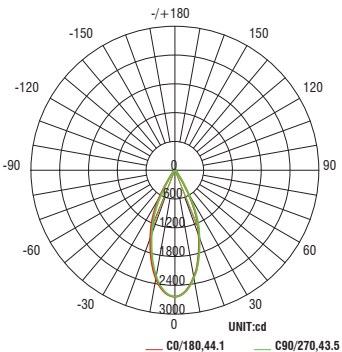
Narrow Flood Beam: 27° Beam



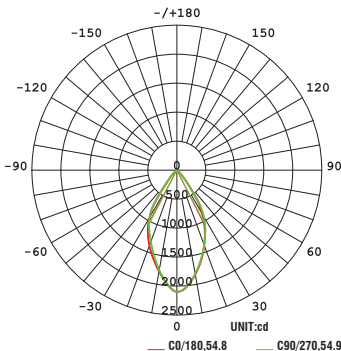
Flood Beam: 42° Beam



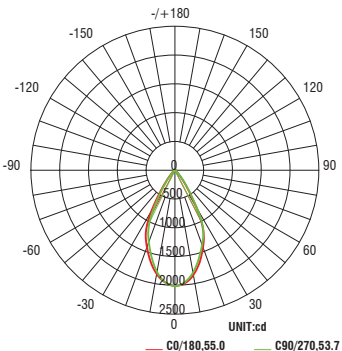
Flood Beam: 42° Beam



Wide Flood Beam: 55° Beam



Wide Flood Beam: 55° Beam



FQ Tunable White
4” Downlight

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Fixture Type:

Project:

Catalog#:

Location:

PERFORMANCE DATA

Unified Glare Rating (UGR) Table
General performance of fixtures at 3000K and 90 CRI.

Round Fixture	Angle	UGR Range	Square Fixture	Angle	UGR Range
Narrow Flood	27°	≤ 19	Narrow Flood	27°	≤ 19
Flood	42°	≤ 19	Flood	42°	≤ 20
Wide Flood	55°	≤ 21	Wide Flood	55°	≤ 21

Lumens and CBCP Multiplier Table
Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

Lumens & CBCP Multiplier		Color Temperature					
TWA (1800K - 4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	1 (14W)	0.42	0.48	0.53	0.56	0.59	0.63
	2 (19W)	0.59	0.67	0.74	0.78	0.83	0.88
	3 (26W)	0.76	0.86	0.95	1.00	1.07	1.13

FQ Tunable White
4" Downlight

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Fixture Type:

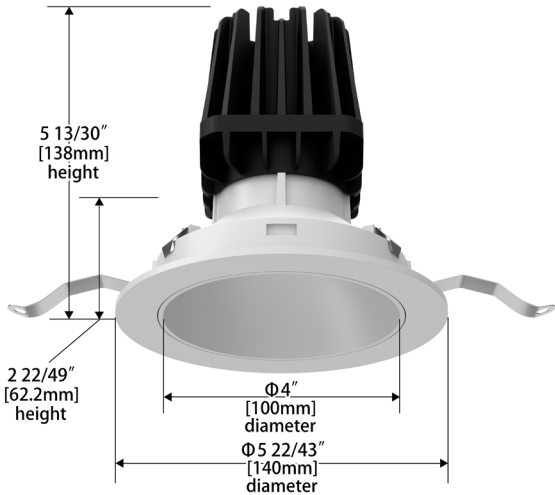
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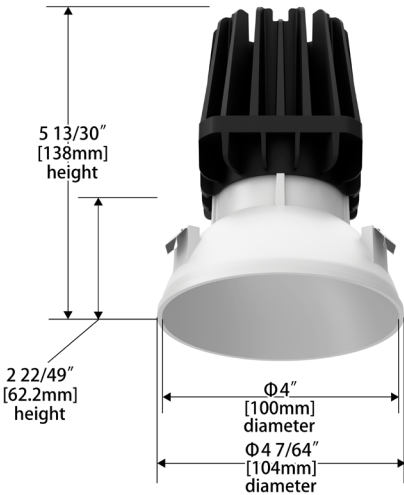
Location:

DIMENSIONAL DIAGRAMS

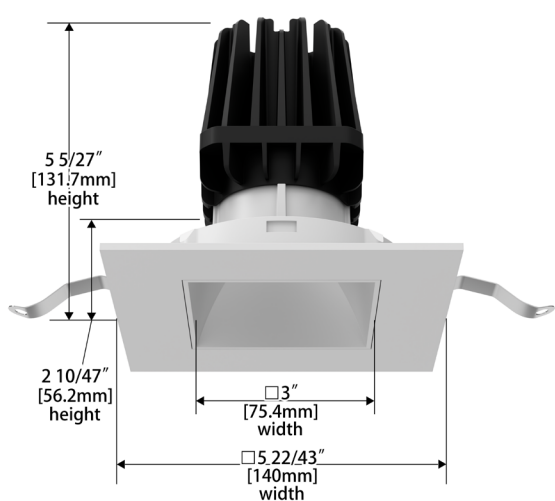
Round Trim (R4FRDT)



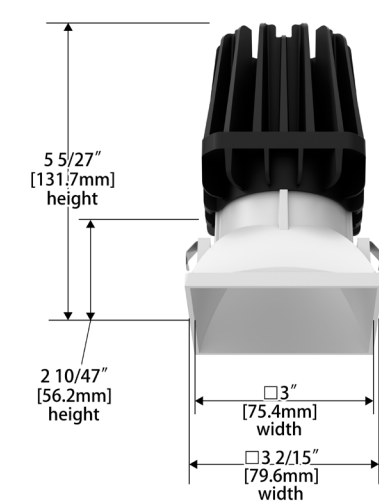
Round Trimless (R4FRDL)



Square Trim (R4FSDT)



Square Trimless (R4FSDL)



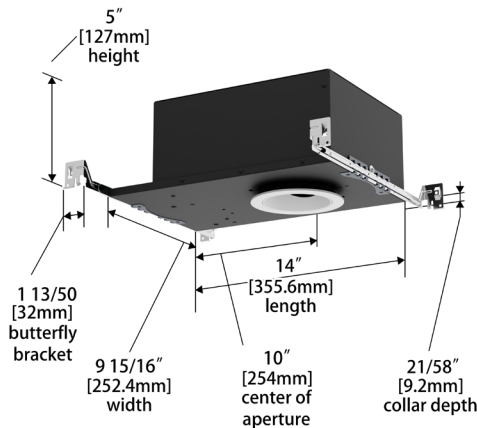
FQ Tunable White
4" Downlight

R4FRDT | R4FRDL | R4FSDT | R4FSDL

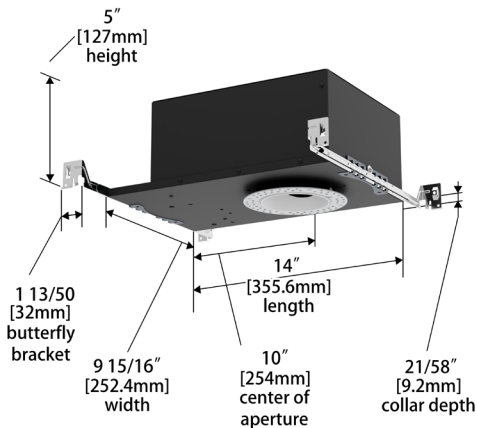
Fixture Type: _____
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DIMENSIONAL DIAGRAMS

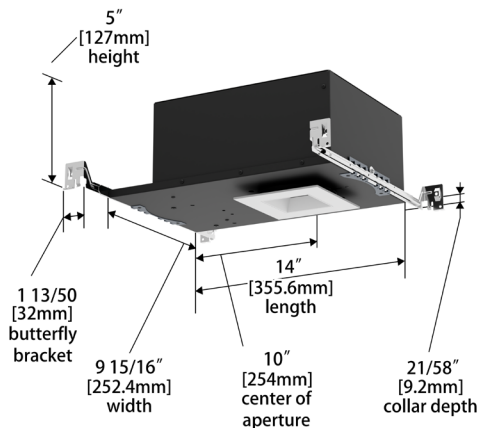
New Construction - Round Trim



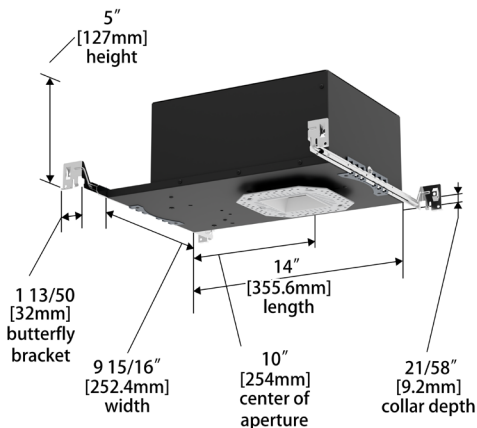
New Construction - Round Trimless



New Construction - Square Trim



New Construction - Square Trimless



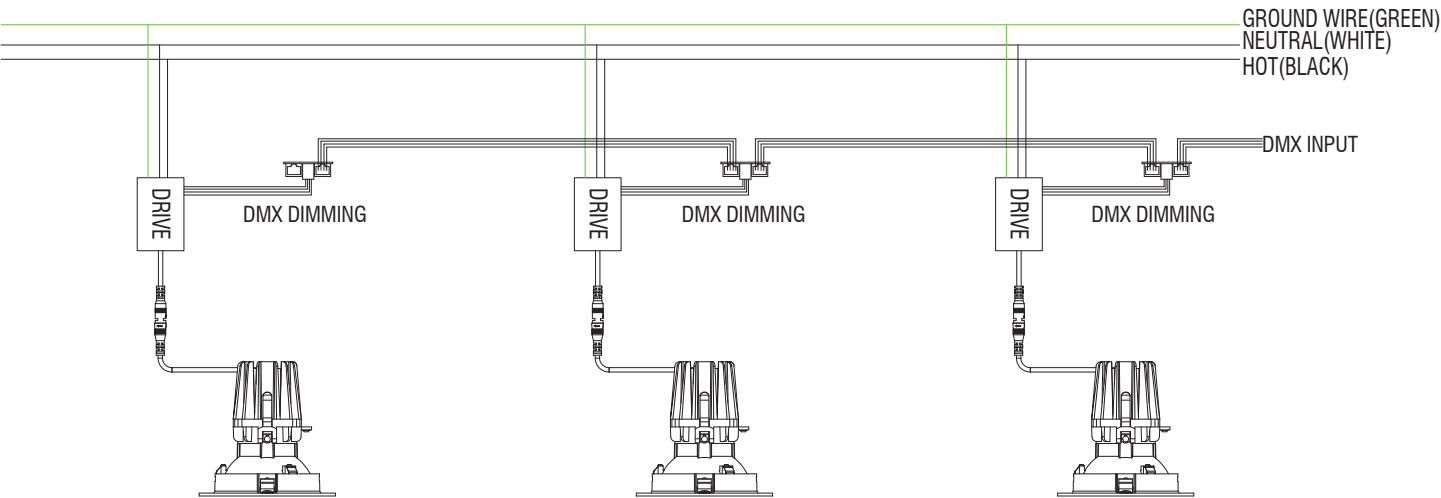
FQ Tunable White
4" Downlight

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WIRING DIAGRAMS

DMX512-A



2CH 0-10V

