S Series
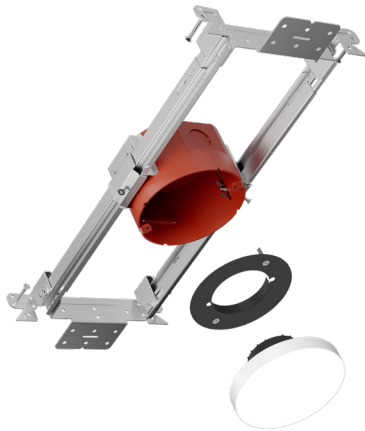
V040924

4" Surface Mount Downlight

F4NC 4" New Construction
Fire Rated Shallow Junction Box

- Thinnest-in-class S Series delivers the pure, smooth light and the elegant look of a high-end recessed downlight
- Features multiple ratings to meet the demands of a wide range of situations
- The 4" Round and Square lights match the appearance of recessed lights

INSTALLATION

Ceiling Thickness

SurfaceFrame: 0" up to 1 $^1/_2$"

SurfaceFrame (Emergency): $^1/_2$" up to 1 $^1/_4$"

Ceiling Material

Drywall

PHYSICAL

Housing

4" Round Junction Box

Application

New Construction

Shape

Round, Square

Finish

White

LIGHT OUTPUT & DISTRIBUTION

Module

Downlight

Lumens (Power)

750 lm (9.0W), 1000 lm (12.0W)

Color Quality

90+ CRI, <3-step SDCM

Color Temperature

- 2700K
- 3000K
- 3500K

Optics

General

POWER & CONTROLS

Input Voltage

120V only (TRIAC/ELV), 120/277V (0-10V)

Dimming

TRIAC/ELV (5%), 0-10V (1%)

Emergency Lighting

Optional Emergency LED Driver with integrated Test Switch for lighting up to 90 minutes in event of power failure

RATINGS & CERTIFICATIONS

Housing

- IC (Insulation Contact) Rated
- ASTM E283 Certified Air Tight
- Code compliant for use in fire-rated assemblies up to a maximum of 2-hours
- STC/IIC Sound Rated
- RoHS Compliant

Module

- UL Listed for Wet Location
- UL Closet Rating Compliant *(750 lm only)*

Additional Options

- Non-Conductive Dead Front

Warranty

5 year limited warranty; 50,000 hours

PRODUCT BUILDER - TRIAC/ELV, 0-10V

HOUSING

F4NC	4" New Construction Fire Rated Shallow Junction Box

MODULE

PRODUCT CODE		APERTURE		SHAPE		LUMENS		CRI		CCT		DRIVER	
DRD5S	Module	4	4" Aperture	R	Round	07	750 lm	9	90+ CRI	27	2700K	T	Integrated TRIAC/ELV, 120V only
				S	Square	10	1000 lm			30	3000K	O	Integrated 0-10V, 120/277V
										35	3500K	TDF	Integrated TRIAC/ELV, 120V only, Non-Conductive [1]
												ODF	Integrated 0-10V, 120/277V, Non-Conductive [1]

[1] Only available for Round shape, 750 lm, 2700K or 3000K CCT

PRODUCT BUILDER - EMERGENCY LIGHTING

HOUSING

PRODUCT CODE		DRIVER		OPTION	
F4NC	4" New Construction Fire Rated Shallow Junction Box	7O	0-10V, 750 lm	EM	EM Driver
		10O	0-10V, 1000 lm		

MODULE

PRODUCT CODE		APERTURE		SHAPE		LUMENS		CRI		CCT		DRIVER	
DRD5S	Module	4	4" Aperture	R	Round	07	750 lm	9	90+ CRI	27	2700K	EM	Emergency with Integrated Test Switch
				S	Square	10	1000 lm			30	3000K		
										35	3500K		

HOUSING

2⁹⁄₁₆"
(65mm)

4¹⁄₈"
(105mm)

7¹⁄₈"
(180mm)

14 ½" TO 24" *
(368mm to 610mm)
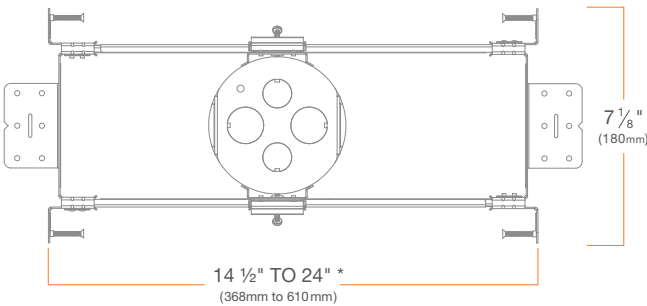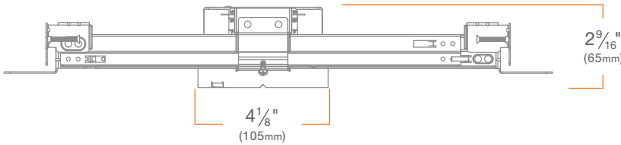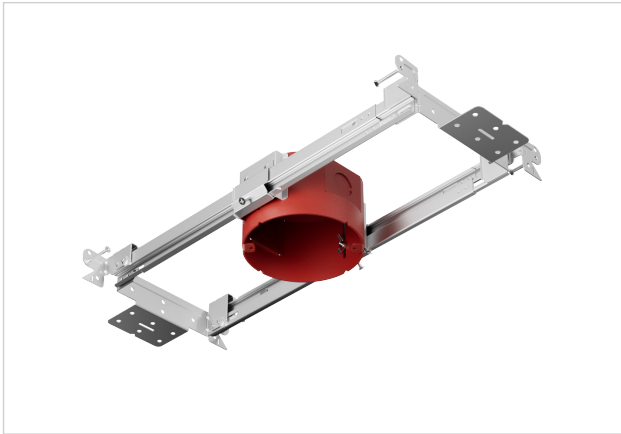
Can be field cut to minimum 7 ½" (191mm)

SurfaceFrame
4" New Construction Fire Rated Junction Box
F4NC

SUMMARY

JUNCTION BOX: Equipped with (4) ½" trade size knockouts (two side, two top) to allow straight conduit runs. Approved for 6 (three in, three out) #12 AWG 70°C through wiring conductors.

MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"
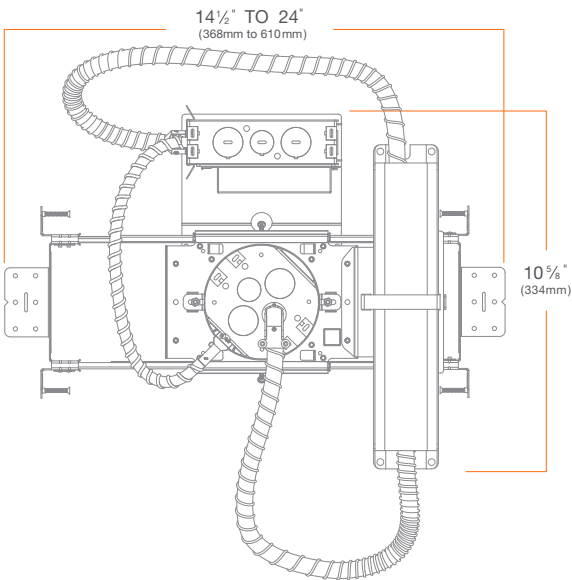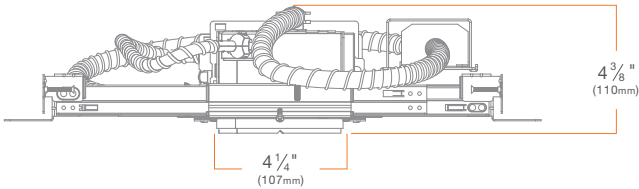
CEILING: 0 to 1 ½"

CUTOUT: 4 ³⁄₁₆" (106mm) round opening

LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated

WARRANTY: 5 year limited warranty

EMERGENCY HOUSING

SurfaceFrame

4" New Construction Fire Rated Junction Box
with Emergency Lighting
F4NC

SUMMARY

JUNCTION BOX: Equipped with (4) ½" trade size knockouts (two side, two top) to allow straight conduit runs. Approved for 6 (three in, three out) #12 AWG 70°C through wiring conductors.

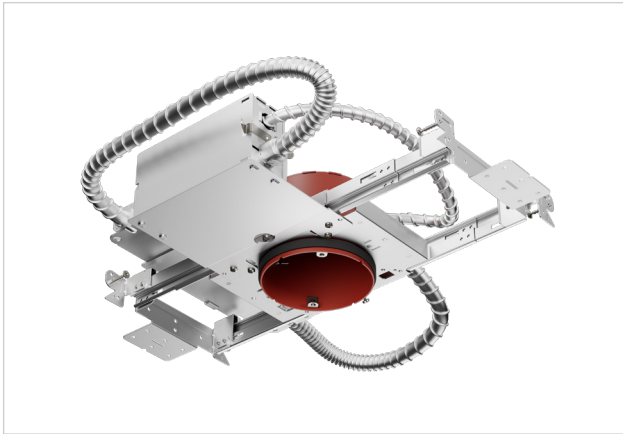**MOUNTING:** Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"
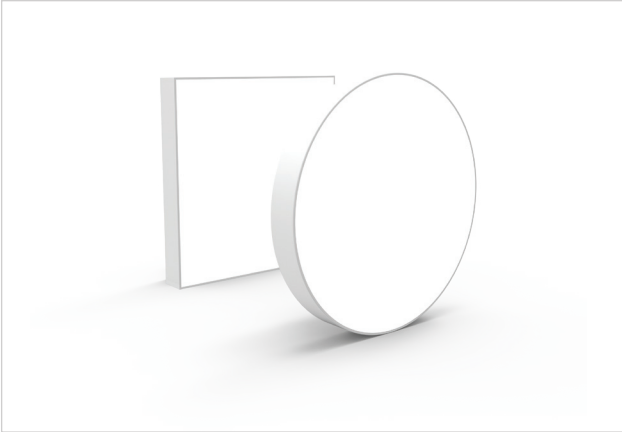
CEILING: ½" up to 1 ¼"

CUTOUT: 4 $^3/_{16}$" (106mm) round opening

LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated

WARRANTY: 5 year limited warranty

4 $^3/_8$" (110mm)

4 $^1/_4$" (107mm)

14½" TO 24" (368mm to 610mm)

10 $^5/_8$" (334mm)

Can be field cut to minimum 9" (229mm)

MODULE

DRD5S

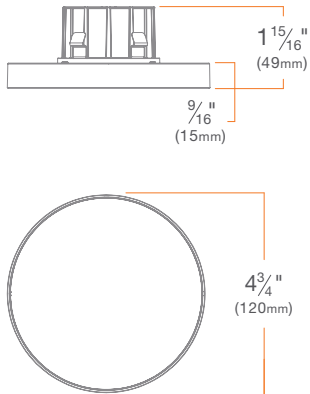Surface Mount LED Module
DRD5S4R, DRD5S4S

SUMMARY

LED: Optimized LED array

SHAPE: 4" Round, 4" Square

MODULE LUMENS: 750 lm (9.0W), 1000 lm (12.0W)

COLOR QUALITY: 90+ CRI, less than 3-step SDCM

CCT: 2700K, 3000K, 3500K

INPUT VOLTAGE: 120V only (TRIAC/ELV), 120/277V (0-10V)

**DIMMING: Down to less than 5% for TRIAC/ELV at 120V, 1% for 0-10V at 120/277V

MAX INPUT CURRENT (120V): 0.075 amps, 0.1047 amps

MAX INPUT CURRENT (277V): 0.034 amps, 0.047 amps

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

EMERGENCY LIGHTING: Optional Emergency LED Driver with Integrated Test Switch for lighting up to 90 minutes in event of power failure

PHOTOMETRIC TESTING: Tested in accordance to IESNA LM-79-2008

LISTINGS: ENERGY STAR® Qualified*, California Title 24 2016-2022 JA8-E Compliant, UL Listed for Wet Location, UL Closet Rating compliant (750 lm only), UL Certified US·CA

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty

* Refer to ENERGY STAR Certified light fixtures database
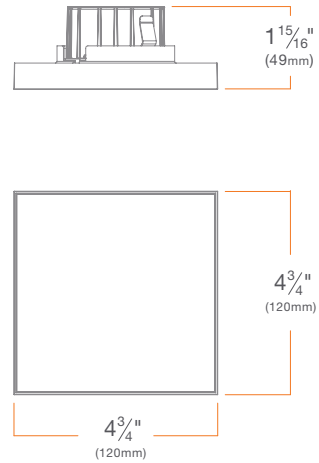*** Visit rb.gy/8xj3e to learn more*

MODULE

4" Round

DRD5S4R

1 15/16 " (49mm)

9/16 " (15mm)

4 3/4 " (120mm)

4" Square

DRD5S4S

1 15/16 " (49mm)

4 3/4 " (120mm)

4 3/4 " (120mm)

4" Round with EM Test Switch

DRD5S4R EM

1 15/16 " (49mm)

9/16 " (15mm)

4 3/4 " (120mm)

5 1/4 " (134mm)
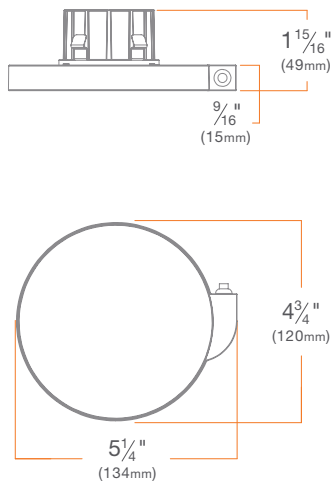
4" Square with EM Test Switch

DRD5S4S EM

1 15/16 " (49mm)

9/16 " (15mm)

4 3/4 " (120mm)

5 3/8 " (137mm)
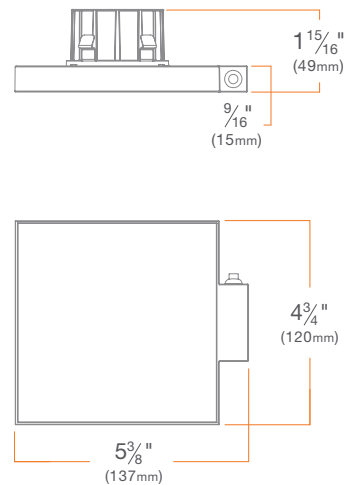
PHOTOMETRY

DRD5S 4" Round, 750 lm, 90 CRI, 3000K DRD5S4R07930

cd ─── C0 - C180 ─ ─ C90 - C270 744 lm
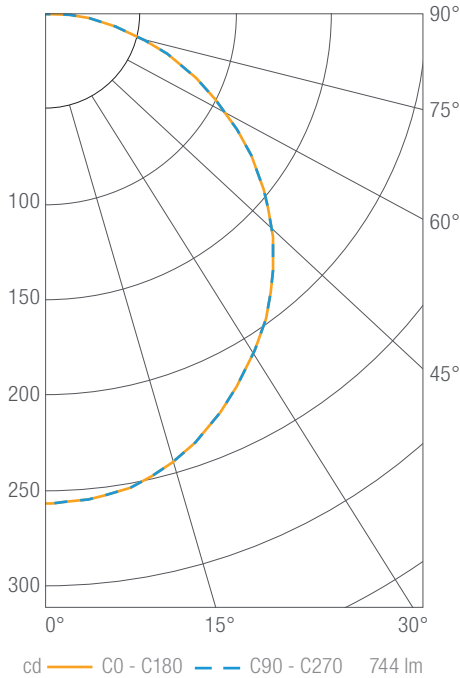
Luminous Intensity

Gamma	C 0˚
0°	258
5°	256
10°	253
15°	247
20°	237
25°	226
30°	213
35°	200
40°	185
45°	169
50°	151
55°	132
60°	113
65°	93
70°	73
75°	54
80°	35
85°	18
90°	6

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	199	27
0-40	324	44
0-60	573	77
0-90	744	100
0-180	744	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	29	8.8'
6.0'	7	17.7'
9.0'	3	26.5'
12.0'	2	35.3'

Beam Angle: 112°

DRD5S 4" Round, 1000 lm, 90 CRI, 3000K DRD5S4R10930

cd ─── C0 - C180 ─ ─ C90 - C270 1027 lm
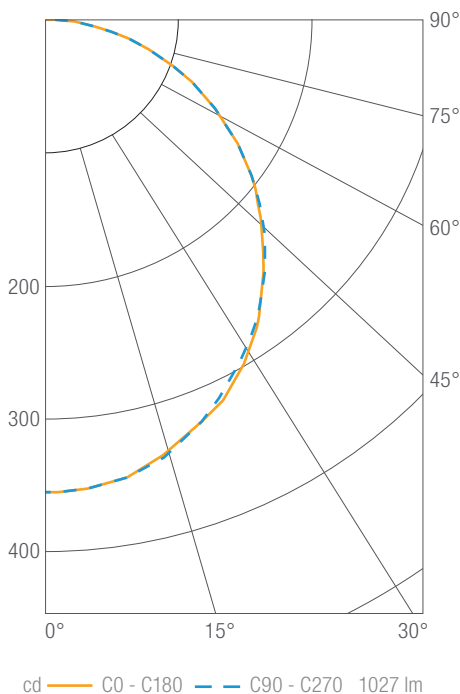
Luminous Intensity

Gamma	C 0˚
0°	356
5°	354
10°	349
15°	340
20°	327
25°	312
30°	294
35°	276
40°	255
45°	233
50°	209
55°	183
60°	155
65°	128
70°	101
75°	74
80°	48
85°	25
90°	9

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	274	27
0-40	447	44
0-60	790	77
0-90	1027	100
0-180	1027	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	40	8.8'
6.0'	10	17.7'
9.0'	4	26.5'
12.0'	2	35.3'

Beam Angle: 112°