

DRD2 & SurfaceFrame

Shallow Recessed LED Downlight

New Construction
DRDHNJO Octagonal Junction Box



- Features multiple ratings to meet the demands of a wide range of situations
- Ultra-low profile allows it to install in as little as 2" of ceiling space when 5/8" drywall is used
- DRD2 combines the performance of a premium light engine with an intelligent design that makes it simple to install, maintain or replace

Application New Construction		Aperture 4" Octagonal Junction Box	
Delivered Lumens 750 lm (10.8W), 1000 lm (12.8W), 1250 lm (14.3W)		Color Quality 93+ CRI, 2-step SDCM	
Color Temperature 2700K 3000K 3500K 4000K Warm Dim (3000–1800K)		Optics Narrow Spot (15°) Spot (25°) Flood (40°) Wide Flood (60°) General (90°+) Linear Soft Focus	
Input Voltage 120/277V		1% Dimming TRIAC/ELV, 0-10V	
Trims Round		Trim Finish White	
Housing Ratings Code compliant for use in appropriate fire-rated assemblies up to a maximum of 2-hours STC/IIC Sound Rated ASTM E283 Certified Air Tight IC (Insulation Contact) Rated			Module Ratings UL Listed for Wet Location
Standards JA8 TITL 24 ENERGY STAR UL CERTIFIED US-CA		Guarantee 50,000 hrs 5 years	



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New Construction

DRDHNJO Octagonal Junction Box

PRODUCT BUILDER

HOUSING

PRODUCT CODE		APPLICATION		APERTURE	
DRDH	Housing	N	New Construction	JO	Octagonal Junction Box

DRD2 LED MODULE

PRODUCT CODE		LUMENS		CRI		CCT		BEAM SPREAD		DIMMING	
DRD2M	Module	7	750 lm	9	93+ CRI	27	2700K	GA	General Ambient (90°+)	T	TRIAC/ELV
		10	1000 lm			30	3000K	NS	Narrow Spot (15°) ⁶	O	0-10V
		12	1250 lm			35	3500K	SP	Spot (25°)		
						40	4000K	FL	Flood (40°)		
						3W	Warm Dim ¹	WF	Wide Flood (60°) ⁴		
								LS	Linear Spread		
								SF	Soft Focus		

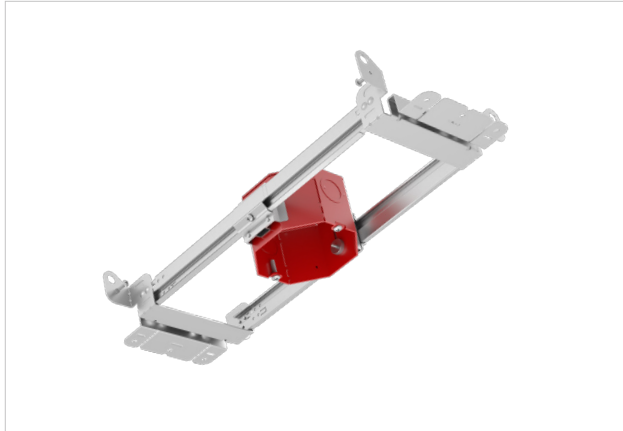
TRIM

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH	
DRD2T	Trim	R	Round	J	Junction Box	S	Standard	WH	White

¹ Only available in 1000 lm



HOUSING



SurfaceFrame

New Construction Octagonal Junction Box

DRDHNJO

SUMMARY

JUNCTION BOX: Equipped with (4) $\frac{1}{2}$ " 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.

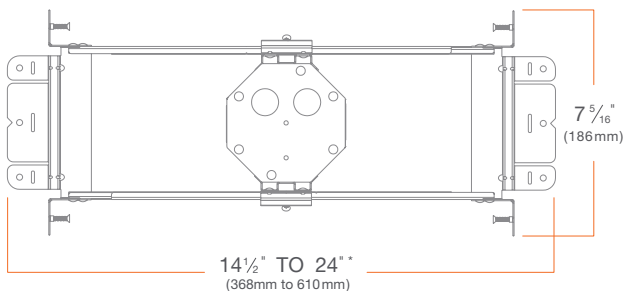
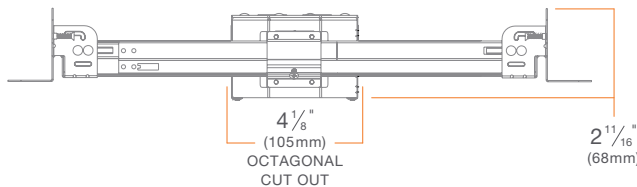
MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"

CEILING: $\frac{1}{2}$ " up to $1\frac{3}{4}$ "

CUTOUT: $4\frac{1}{8}$ " (105mm) octagonal opening

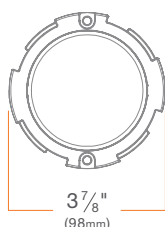
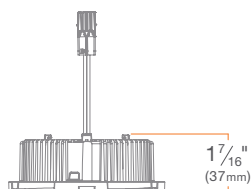
LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated

WARRANTY: 5 year limited warranty



* Can be field cut to minimum $7\frac{1}{2}$ " (191mm)

MODULE



DRD2

General LED Module

DRD2M

SUMMARY

LED: Cree® LED**DELIVERED LUMENS (w Trim):** 750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W)**EFFICACY:** 79 lm/W, 80 lm/W, 87 lm/W**COLOR QUALITY:** 93+ CRI, 2-step SDCM**CCT:** 2700K, 3000K, 3500K, 4000K**BEAM SPREAD:** General Ambient (90°+), Narrow Spot (15°), Spot (25°), Flood (40°), Wide Flood (60°), Linear Spread (40° x 20°), Soft Focus**CONNECTOR:** PowerPlug® Luminaire Disconnect Model 182**DIMMING:** Down to less than 1% for TRIAC/ELV at 120V, 0-10V at 120/277V**INPUT VOLTAGE:** 120/277V, 50/60Hz**MAX INPUT CURRENT (120V):** 0.090 amps, 0.107 amps**MAX INPUT CURRENT (277V):** 0.042 amps, 0.050 amps**POWER FACTOR:** Greater than 0.9**TOTAL HARMONIC DISTORTION:** Less than 20%**AMBIENT OPERATING TEMPERATURE:** -20°C to 40°C**PHOTOMETRIC TESTING:** Tested in accordance to IESNA LM-79-2008**LISTINGS:** ENERGY STAR® qualified *, California Title 24 2016 JA8 compliant, UL Listed for Wet Location, cULus Listed**LIFETIME:** 50,000 hours at 70% lumen maintenance**WARRANTY:** 5 year limited warranty

WARM DIM OPTION

LED: Bridgelux LED **DELIVERED MODULE LUMENS:** 1000 lm (12.0W) **EFFICACY:** 83 lm/W **CCT RANGE:** 3000K - 1800K, **MAX INPUT CURRENT (120V):** 0.11 amps **MAX INPUT CURRENT (277V):** 0.047 amps

* Refer to ENERGY STAR Certified light fixtures database

TRIM



SurfaceFrame Trim

Shallow Recessed Trim

DRD2T

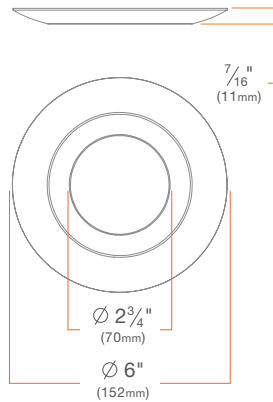
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

Round

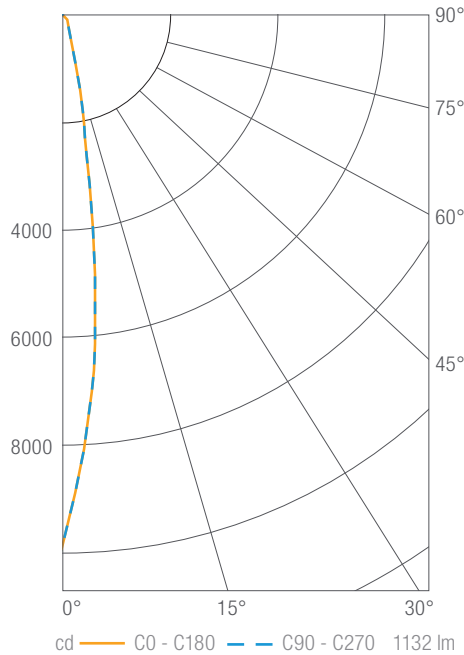
DRD2TRJSWH



PHOTOMETRY

DRD2 1000 lm, 3000K, Narrow Spot

DRD2M10930NS



Luminous Intensity

Gamma	C 0°
0°	9823
5°	6600
10°	2335
15°	734
20°	357
25°	244
30°	195
35°	159
40°	116
45°	85
50°	61
55°	42
60°	28
65°	16
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	906	80
0-40	1004	89
0-60	1110	98
0-90	1131	100
0-180	1132	100

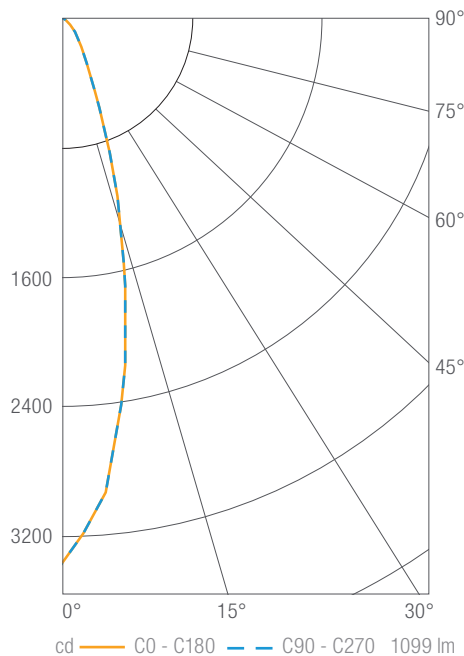
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	1091	0.7'
6'	273	1.5'
9'	121	2.2'
12'	68	2.9'

Beam Angle: 14°

DRD2 1000 lm, 3000K, Spot

DRD2M10930SP



Luminous Intensity

Gamma	C 0°
0°	3366
5°	2967
10°	2203
15°	1391
20°	775
25°	419
30°	248
35°	167
40°	119
45°	87
50°	62
55°	43
60°	26
65°	15
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	862	78
0-40	971	88
0-60	1078	98
0-90	1098	100
0-180	1099	100

Illuminance Chart

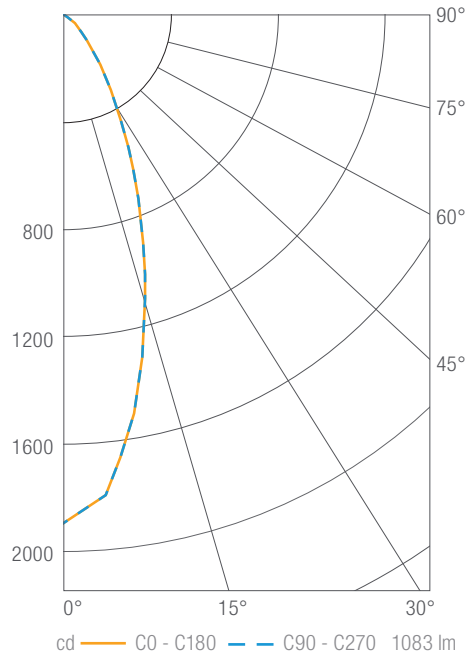
Distance from LED	Foot Candles	Diameter
3'	374	1.4'
6'	93	2.8'
9'	42	4.2'
12'	23	5.6'

Beam Angle: 26°

PHOTOMETRY

DRD2 1000 lm, 3000K, Flood

DRD2M10930FL



Luminous Intensity

Gamma	C 0°
0°	1890
5°	1792
10°	1503
15°	1161
20°	849
25°	589
30°	391
35°	256
40°	162
45°	107
50°	74
55°	51
60°	30
65°	18
70°	8
75°	5
80°	3
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	760	70
0-40	925	85
0-60	1058	98
0-90	1081	100
0-180	1083	100

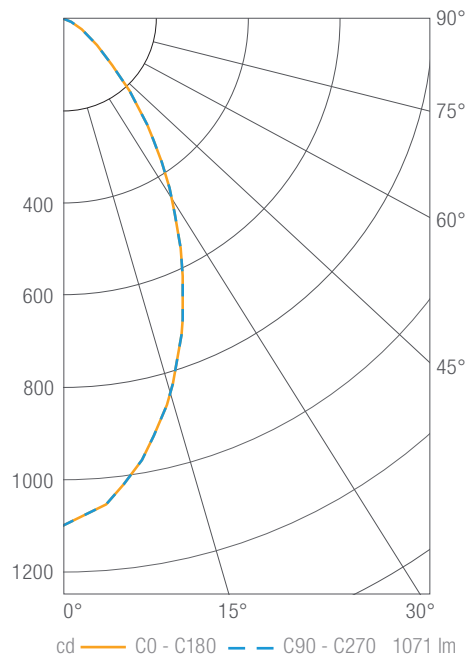
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	210	2.0'
6'	52	4.0'
9'	23	6.0'
12'	13	8.0'

Beam Angle: 37°

DRD2 1000 lm, 3000K, Wide Flood

DRD2M10930WF



Luminous Intensity

Gamma	C 0°
0°	1100
5°	1058
10°	973
15°	866
20°	743
25°	609
30°	478
35°	361
40°	252
45°	161
50°	102
55°	68
60°	41
65°	24
70°	11
75°	6
80°	4
85°	2
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	620	58
0-40	845	79
0-60	1037	97
0-90	1069	100
0-180	1071	100

Illuminance Chart

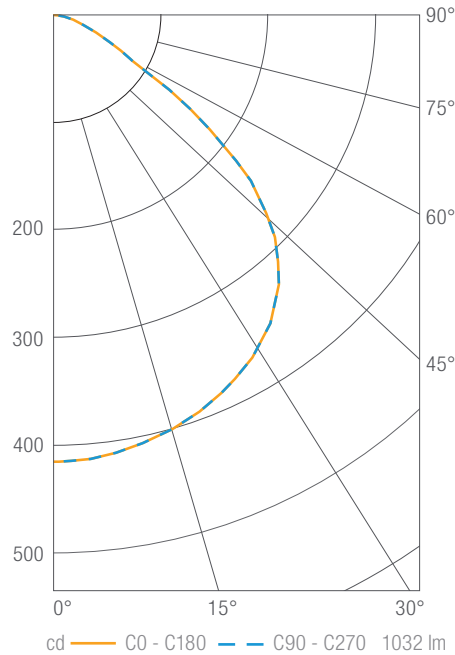
Distance from LED	Foot Candles	Diameter
3'	122	3.1'
6'	31	6.2'
9'	14	9.3'
12'	8	12.3'

Beam Angle: 55°

PHOTOMETRY

DRD2 1000 lm, 3000K, General Ambient

DRD2M10930GA



Luminous Intensity

Gamma	C 0°
0°	416
5°	415
10°	410
15°	403
20°	394
25°	382
30°	369
35°	351
40°	327
45°	291
50°	240
55°	162
60°	84
65°	54
70°	33
75°	21
80°	12
85°	6
90°	1

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	333	32
0-40	557	54
0-60	942	91
0-90	1024	99
0-180	1032	100

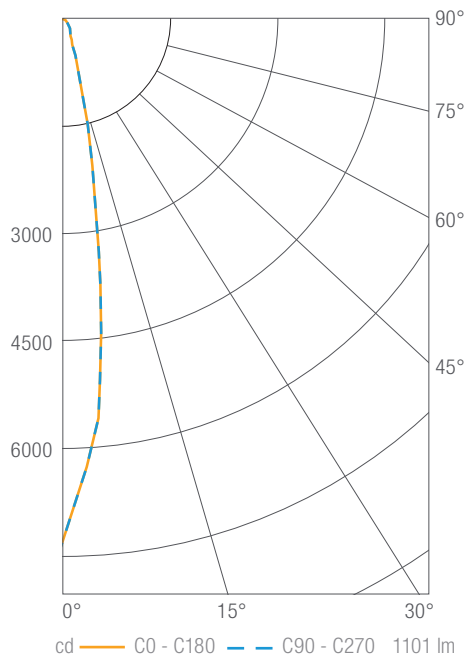
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	46	7.8'
6'	12	15.5'
9'	5	23.3'
12'	3	31.1'

Beam Angle: 100°

DRD2 1000 lm, 3000K, Soft Focus

DRD2M10930SF



Luminous Intensity

Gamma	C 0°
0°	7280
5°	5603
10°	2489
15°	875
20°	381
25°	247
30°	194
35°	161
40°	122
45°	90
50°	64
55°	45
60°	28
65°	16
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	868	79
0-40	968	88
0-60	1078	98
0-90	1100	100
0-180	1101	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	809	0.9'
6'	202	1.7'
9'	90	2.6'
12'	51	3.4'

Beam Angle: 16°