

DRD2X & SurfaceFrame

Apex Series Shallow Recessed LED Downlight

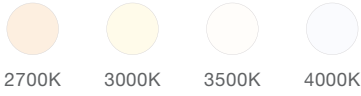







New Construction
DRDHNJO Octagonal Junction Box

Project:	Type:
Product Code:	Date:

Spec Sheet V-08.15.19



- High-end, architectural-grade illumination with up to 4000 candelas of focused light
- Precise, controlled optics put light exactly where you want it with 20°, 30° and 40° beam angles
- 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

Application New Construction		Aperture 4" Octagonal Junction Box	
Delivered Lumens 600 lm (10.0W), 750 lm (12.5W)		Color Quality 90+ CRI, 2-step SDCM	
Color Temperature  2700K 3000K 3500K 4000K		Optics  Spot (20°) Narrow Flood (30°) Flood (40°)	
Surround White, Black		Center Beam Candlepower 4000cd (Spot 750 lm)	
Input Voltage 120/277V	Dimming TRIAC/ELV 5%	Warm Dim Option  3000K – 1800K, 600 lm (12.0W), 93+ CRI, 3000cd	
Trim Surface Mount		Trim Finish White	
Housing Ratings  Code compliant for use in 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



Guarantee

50,000 hrs | 5 years

Additional Options

0-10V Dimming, Lutron Hi-lume® Dimming, Emergency Lighting, General Lighting



PRODUCT BUILDER

HOUSING

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

MODULE

PRODUCT CODE		LUMENS		CRI		CCT		OPTICS		SURROUND	
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DRD2X	Module	06	600 lm	9	90+ CRI	27	2700K	SP	Spot	WH	White
		07	750 lm			30	3000K	NF	Narrow Flood	BK	Black
						35	3500K	FL	Flood		
						40	4000K				

Warm Dim Option

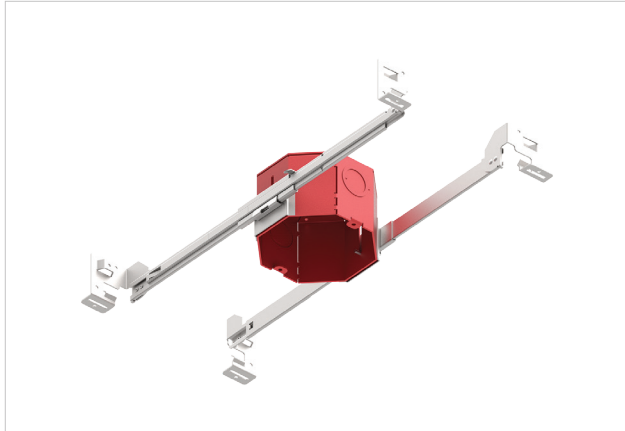
DRD2X	Module	06	600 lm	9	93+ CRI	3W	3000K - 1800K	SP	Spot	WH	White
								NF	Narrow Flood	BK	Black
								FL	Flood		

TRIM

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



HOUSING



SurfaceFrame

New Construction Octagonal Junction Box

DRDHNJO

SUMMARY

JUNCTION BOX: Equipped with (4) 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.

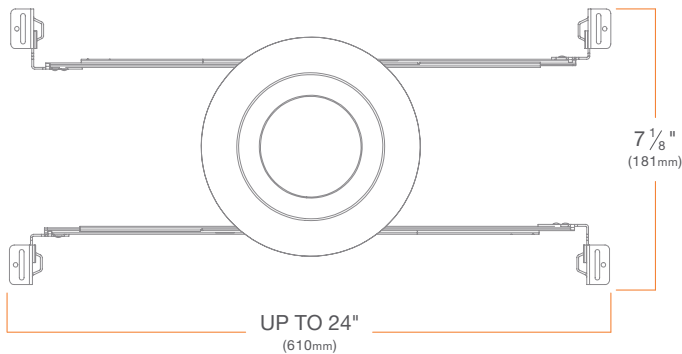
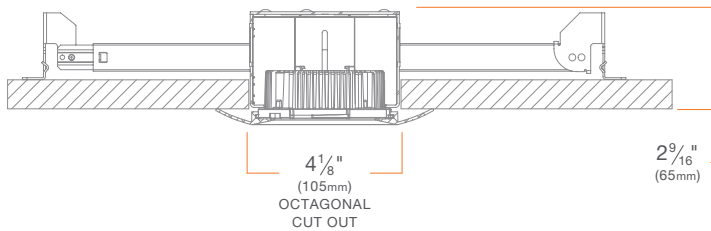
MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"

CEILING: 1/2" up to 1 3/4"

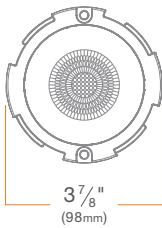
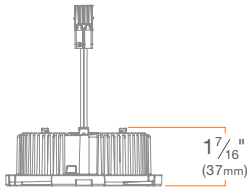
CUTOUT: 4 1/8" (105mm) octagonal opening

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



MODULE



DRD2X

Apex Series LED Module

DRD2X

SUMMARY

LED: Cree® LED

DELIVERED LUMENS (w Trim): 600 lm (10.0W), 750 lm (12.5W)

EFFICACY: 60 lm/W

COLOR QUALITY: 90+ CRI, 2-step SDCM

CCT: 2700K, 3000K, 3500K, 4000K

OPTICS: Spot (20°), Narrow Flood (30°), Flood (40°)

SURROUND: White, Black

CENTER BEAM CANDLEPOWER: 4000cd (Spot 750 lm)

CONNECTOR: PowerPlug® Luminaire Disconnect Model 182

DIMMING: Down to less than 5% for TRIAC/ELV at 120V

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 LUMENS (w Trim):** 600 lm (12.0W),

EFFICACY: 50 lm/W, **COLOR QUALITY:** 93+ CRI, **CCT RANGE:** 3000K

- 1800K, **CENTER BEAM CANDLEPOWER:** 3000cd (Spot), **MAX INPUT**

CURRENT (120V): 0.11 amps, **MAX INPUT CURRENT (277V):** 0.047 amps



TRIM



SurfaceFrame Trim

Junction Box

DRD2TRJ

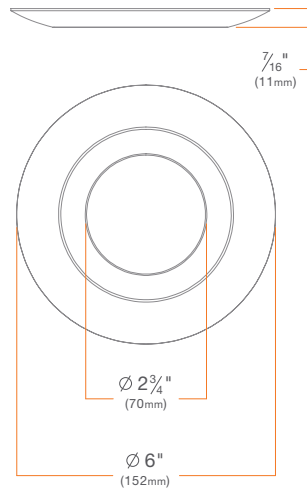
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

Surface Mount Trim

DRD2TRJSWH

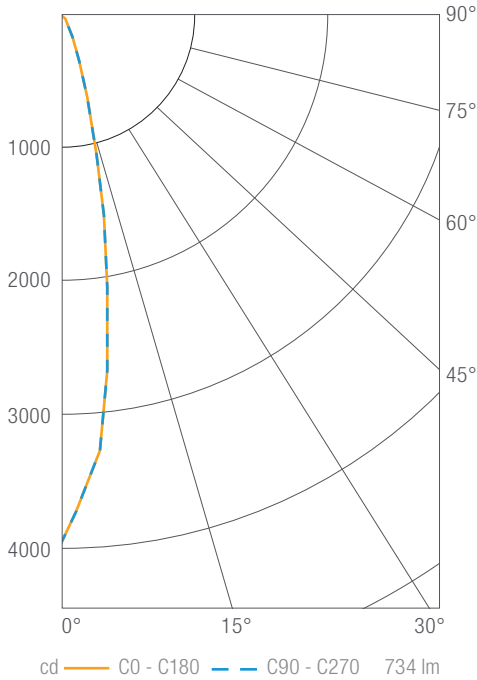




PHOTOMETRY

DRD2X 750 lm, 3000K, Spot, White DRD2X07930SPWH

Surface Mount Trim White DRD2TRJSWH



Luminous Intensity

Gamma	C 0°
0°	3949
5°	3303
10°	1934
15°	877
20°	387
25°	183
30°	111
35°	79
40°	56
45°	37
50°	21
55°	11
60°	7
65°	3
70°	3
75°	3
80°	1
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	640	87
0-40	689	94
0-60	728	99
0-90	734	100
0-180	734	100

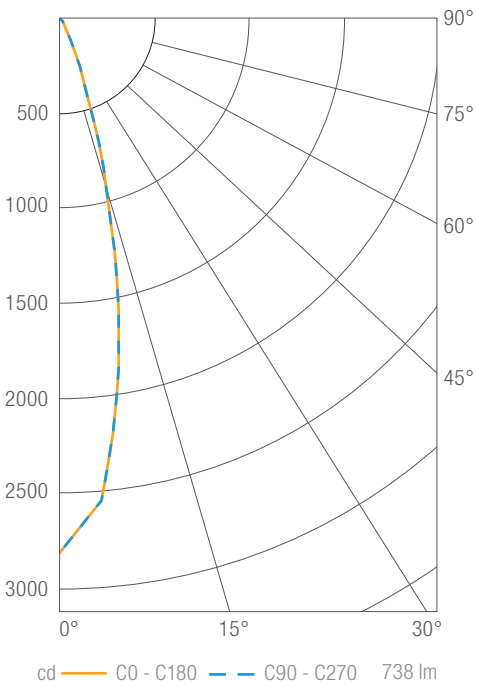
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	439	1.0'
6.0'	110	2.1'
9.0'	49	3.1'
12.0'	27	4.1'

Beam Angle: 20°

DRD2X 750 lm, 3000K, Narrow Flood, White DRD2X07930NFWH

Surface Mount Trim White DRD2TRJSWH



Luminous Intensity

Gamma	C 0°
0°	2827
5°	2575
10°	1845
15°	1032
20°	499
25°	213
30°	119
35°	76
40°	53
45°	38
50°	24
55°	15
60°	7
65°	5
70°	4
75°	3
80°	1
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	636	86
0-40	687	93
0-60	729	99
0-90	738	100
0-180	738	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	314	1.4'
6.0'	79	2.7'
9.0'	35	4.1'
12.0'	20	5.4'

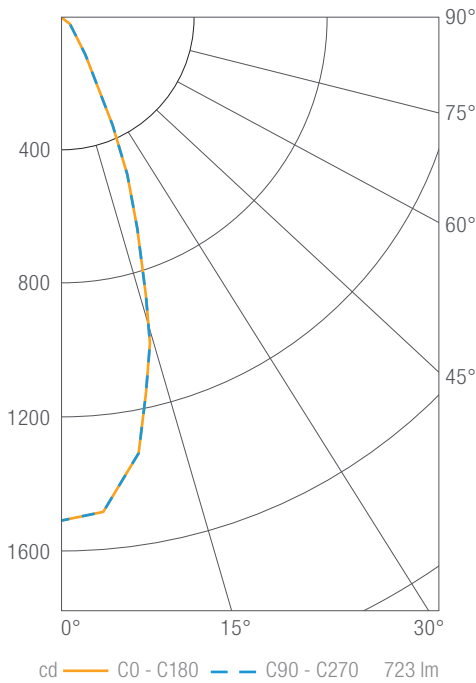
Beam Angle: 26°



PHOTOMETRY

DRD2X 750 lm, 90 CRI, 3000K, Flood, White DRD2X07930FLWH

Surface Mount Trim White DRD2TRJSWH



Luminous Intensity

Gamma	C 0°
0°	1514
5°	1495
10°	1336
15°	1010
20°	634
25°	347
30°	183
35°	102
40°	62
45°	38
50°	21
55°	11
60°	6
65°	5
70°	3
75°	2
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	599	83
0-40	673	93
0-60	715	99
0-90	723	100
0-180	723	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	168	2.1'
6.0'	42	4.1'
9.0'	19	6.2'
12.0'	11	8.2'

Beam Angle: 38°

Lumen Scaling

DRD2X06 (600 lm)	DRD2X07 (750 lm)
0.80	1.00

CCT Scaling

DRD2X07927 (2700K)	DRD2X07930 (3000K)	DRD2X07935 (3500K)	DRD2X07940 (4000K)
0.93	1.00	1.00	1.07

**DIMMER COMPATIBILITY****Recommended Phase-control Dimmers** (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2X06	Max Load DRD2X07
Control 4	Control 4	C4-APD120	10	9
Cooper	Decorator	DLC03P, DAL06P	25	20
Legrand	Adorne	ADTP703TU	35	30
Lutron	Caseta	PD-6WCL	12	10
	CL Series	AYCL-153, CTCL-153, DVCL-153, LGCL-513, SCL-153, TGCL-513	12	10
	CL Series	AYCL-253, DVCL-253	20	15
	Grafik Eye 3000	QSGR-3P	30	25
	Grafik Sys / Homeworks	RPM-4A	25	20
	Grafik Sys / Homeworks	RPM-4U	30	25
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	12	10
	Maestro Wireless	MRF2-6ELV, MRF2-6CL	12	10
	Radio RA	RRD-6NA, RRD-6CL, RRD-6D	12	10

Compatible Phase-control Dimmers¹ (Dims down to 20% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2X06	Max Load DRD2X07
Cooper	Slide	SLC03P, SAL06P	25	20
Legrand	Harmony	H703PTU, HCL453P	30	25
Leviton	IllumaTech Slide	IPE04	25	20
	SureSlide	6621, 6674	10	10
Lutron	Diva	DV-600	12	10
	Maestro	MA-600	12	9
	Maestro ELV	MAELV-600, MSCELV-600	35	30
	Maestro Wireless	MRF2-6ND	12	10
	Power Booster	PHPM-PA, PPHM-WBX	25	20
Philips	Sunrise	SR400RPC120, ZP260QEW	20	15
Watt Stopper	Digital Light Management	LMRC-221	160	150
	Dimming Sensor	PW-100D	14	12

¹ Dimmer compatibility reflects performance compatibility only. Please reference your local codes for application.

**DIMMER COMPATIBILITY****Recommended Phase-control Dimmers - Warm Dim** (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load
Cooper	Decorator	DAL06P, DLC03P	20
	Slide	SLC03P	20
Leviton	Sure Slide	6621, 6631	10
Lutron	Diva CL	DVCL-153P	10
	Diva CL	DVCL-253P	15
	Grafik	GTJ-150-WH	10
	Maestro	MRF2-6ND	10
	Maestro CL	MACL-153	10
	Maestro CL	MA-PRO-WH	15
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	10
	Radio RA	RRD-6NA, RRD-6ND	10
	Skylark	SELV-300P	20



SurfaceFrame Options

Shallow Recessed LED Downlight

DRD2 & SurfaceFrame

DRDHNJO Octagonal Junction Box

DRD2 & SurfaceFrame Alt/EM

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

Apex Series Shallow Recessed LED Downlight

DRD2X & SurfaceFrame

DRDHNJO Octagonal Junction Box

DRD2X & SurfaceFrame Alt/EM

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

Surface Mount LED Downlight

DRD5S & SurfaceFrame

DRDHNJO Octagonal Junction Box

DRD5S & SurfaceFrame Alt/EM

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box