

DRD2 & SurfaceFrame

Shallow Recessed LED Downlight

New Construction








DRDHNJO Octagonal Junction Box



Project:	Type:
Product Code:	Date:

Spec Sheet V-09.23.21

- 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)	Color Quality 93+ CRI, 2-step SDCM
Color Temperature  2700K 3000K 3500K 4000K	Optics  General
Input Voltage 120/277V	Dimming TRIAC/ELV 5%
Trims Round	Trim Finish White
Housing Ratings  Code compliant for use in appropriate fire-rated assemblies up to a maximum of 2-hours  STC/IC 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



PRODUCT BUILDER

HOUSING

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

DRD2 LED MODULE

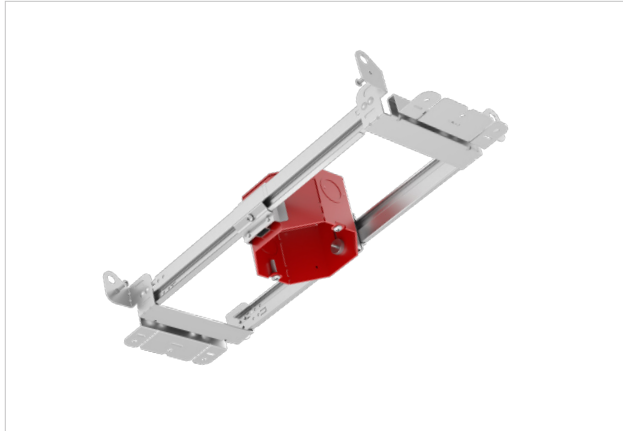
PRODUCT CODE		LUMENS		CRI		CCT	
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DRD2M	Module	7	750 lm	9	93+ CRI	27	2700K
		10	1000 lm			30	3000K
						35	3500K
						40	4000K

TRIM

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DRD2T	Trim	R	Round	J	Junction Box	S	Standard	WH	White



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.

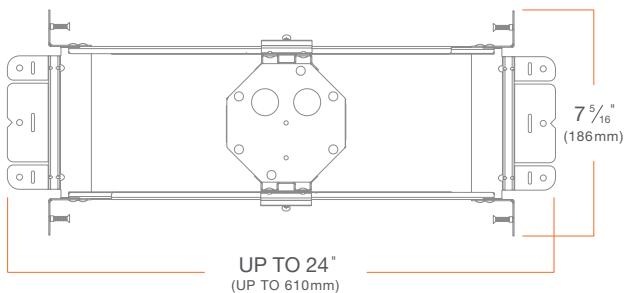
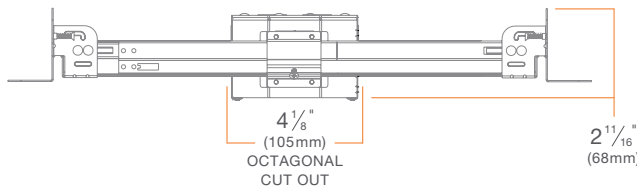
MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"

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

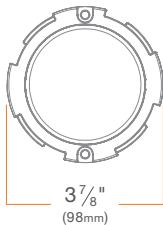
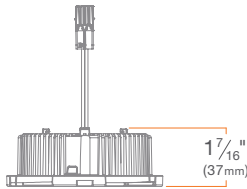
CUTOUT: $4\frac{1}{8}$ " (105mm) octagonal opening

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



MODULE



DRD2

General LED Module

DRD2M

SUMMARY

LED: Cree® LED

MODULE LUMENS: 890 lm (10.8W), 1090 lm (12.8W)

DELIVERED LUMENS (w Trim): 750 lm (10.8W), 1000 lm (12.8W)

EFFICACY: 80 lm/W, 85 lm/W

COLOR QUALITY: 93+ CRI, 2-step SDCM

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

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

TRIM



SurfaceFrame Trim

Shallow Recessed Trim

DRD2T

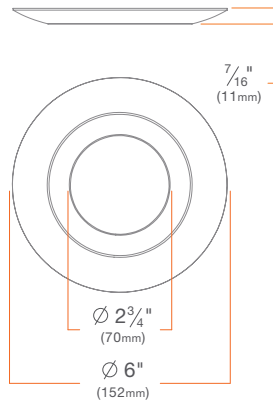
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

Round

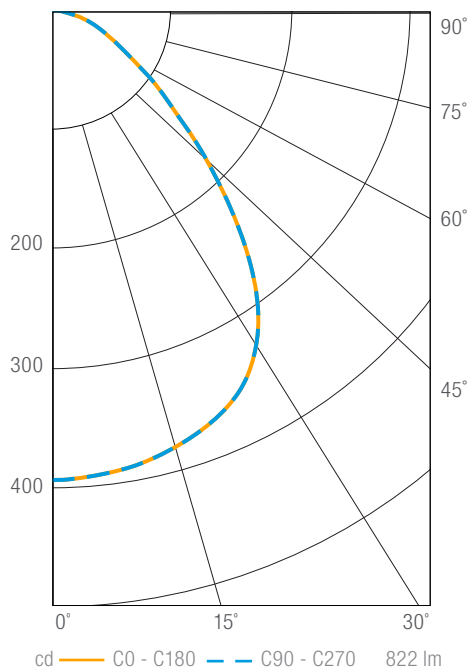
DRD2TRJSWH



PHOTOMETRY

DRD2 750 lm, 93 CRI, 3000K **DRD2M7930**

Round Trim White **DRD2TRJSWH**



Luminous Intensity

Gamma	C 0°
0°	393
5°	391
10°	388
15°	381
20°	372
25°	360
30°	338
35°	301
40°	248
45°	190
50°	140
55°	101
60°	73
65°	54
70°	39
75°	25
80°	11
85°	0
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	310	38
0-40	496	60
0-60	738	90
0-90	822	100
0-180	822	100

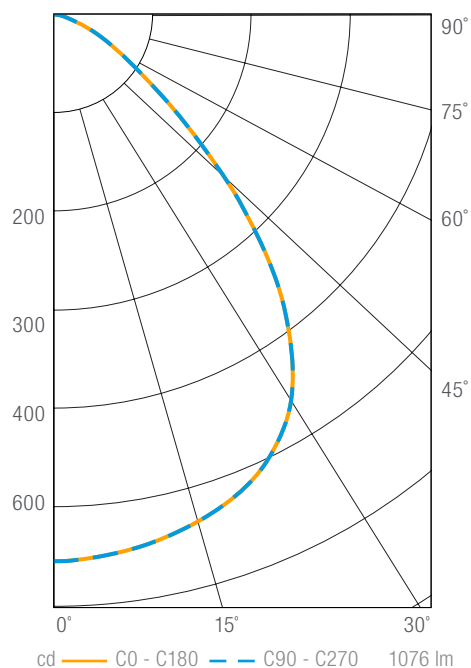
Illuminance Chart

Distance from LED	Foot Candles	Diameter
2.5'	63	4.9'
5.0'	16	10.0'
7.5'	7	14.7'
9.0'	5	17.6'

Beam Angle: 70°

DRD2 1000 lm, 93 CRI, 3000K **DRD2M10930**

Round Trim White **DRD2TRJSWH**



Luminous Intensity

Gamma	C 0°
0°	554
5°	551
10°	545
15°	536
20°	523
25°	504
30°	473
35°	422
40°	350
45°	262
50°	177
55°	115
60°	76
65°	49
70°	27
75°	13
80°	6
85°	2
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	435	41
0-40	697	65
0-60	1007	94
0-90	1076	100
0-180	1076	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
2.5'	89	4.9'
5.0'	22	9.7'
7.5'	10	14.6'
9.0'	7	17.5'

Beam Angle: 63°

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

Brand	Series	Model Number	Max Load DRD2M7	Max Load DRD2M10
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 DRD2M7	Max Load DRD2M10
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, PHPM-WBX	25	20
	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.



SurfaceFrame Options

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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