

DRD2X & SurfaceFrame Alt/EM

Apex Series Shallow Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting
DRDHNJO Octagonal Junction Box



















Emergency



Alternate Dimming

Spec Sheet V-08.15.19

- High-end, architectural-grade illumination with up to 4000 candelas of focused light
- Maintains all the standard SurfaceFrame ratings
- Offers enhanced dimming protocol compatibility including 0-10V and Lutron Hi-Lume® 1%
- Can provide lighting for more than 90 minutes after power failure - enough to meet common safety regulations like NFPA 101

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 <div> 2700K</div> <div> 3000K</div> <div> 3500K</div> <div> 4000K</div>		Optics <div> Spot (20°)</div> <div> Narrow Flood (30°)</div> <div> Flood (40°)</div>	
Surround White, Black	Center Beam Candlepower 4000cd (Spot 750 lm)	Dimming 0-10V 1%, Lutron Hi-lume® 1%	Input Voltage 120/277V
Warm Dim Option <div> 3000K – 1800K, 600 lm (12.0W), 93+ CRI, 3000cd</div>		Emergency Lighting Option Emergency LED Driver for lighting up to 90 minutes in event of power failure	
Trim Surface Mount		Trim Finish White	
Housing Ratings <div><div> Code compliant for use in fire-rated assemblies up to a maximum of 2-hours</div><div> STC/IIC Sound Rated</div><div> ASTM E283 Certified Air Tight</div><div> IC (Insulation Contact) Rated</div></div>			Module Ratings <div><div> UL Listed for Wet Location</div></div>
Standards <div><div> JA8 Title 24</div><div> ENERGY STAR</div><div> LISTED</div></div>		Guarantee 50,000 hrs 5 years	
		Additional Options TRIAC/ELV Dimming, General Lighting	



DRD2X & SurfaceFrame Alt/EM

Apex Series Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

PRODUCT BUILDER

HOUSING

PRODUCT CODE		APPLICATION		APERTURE		DRIVER		OPTION	
<div></div>		<div></div>		<div></div>		<div></div>		<div></div>	
DRDH	Housing	N	New Construction	JO	Octagonal Junction Box	6OX	0-10V, 600 lm	EM	EM Driver
						6OW	0-10V, 600 lm, Warm Dim		
						7OX	0-10V, 750 lm		
						6CX	Lutron LDE1 ¹ , 600 lm		
						6CW	Lutron LDE1 ¹ , 600 lm, Warm Dim		
						7CX	Lutron LDE1 ¹ , 750 lm		
						6LX	Lutron LTEA2W ² , 600 lm		
						6LW	Lutron LTEA2W ² , 600 lm, Warm Dim		
						7LX	Lutron LTEA2W ² , 750 lm		

MODULE

PRODUCT CODE		LUMENS		CRI		CCT		OPTICS		SURROUND		DRIVER	
<div></div>		<div></div>		<div></div>		<div></div>		<div></div>		<div></div>		<div></div>	
DRD2X	Module	06	600 lm	9	90+ CRI	27	2700K	SP	Spot	WH	White	A	Alternate
		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	A Alternate
					NF Narrow Flood	BK Black	
					FL Flood		

TRIM

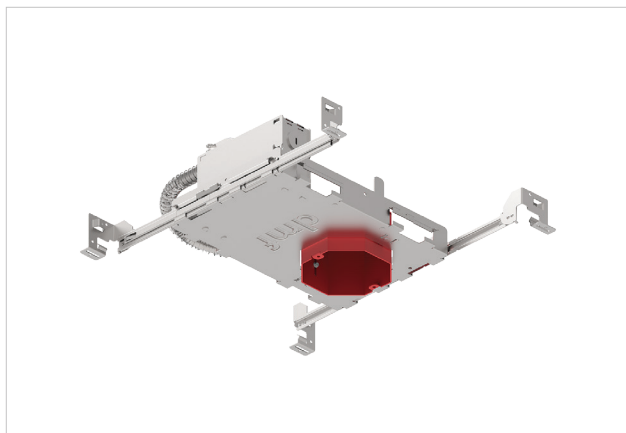
PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH	
<div></div>		<div></div>		<div></div>		<div></div>		<div></div>	
DRD2T	Trim	R	Round	J	Junction Box	S	Surface Mount	WH	White

¹ Lutron LDE1 refers to Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black™

² Lutron LTEA2W refers to Lutron Hi-lume 1% 2-wire LED driver, 120V only



HOUSING



SurfaceFrame

Octagonal Junction Box with Alternate Dimming and/or Emergency Lighting

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

INPUT VOLTAGE: 120/277V, 50/60Hz

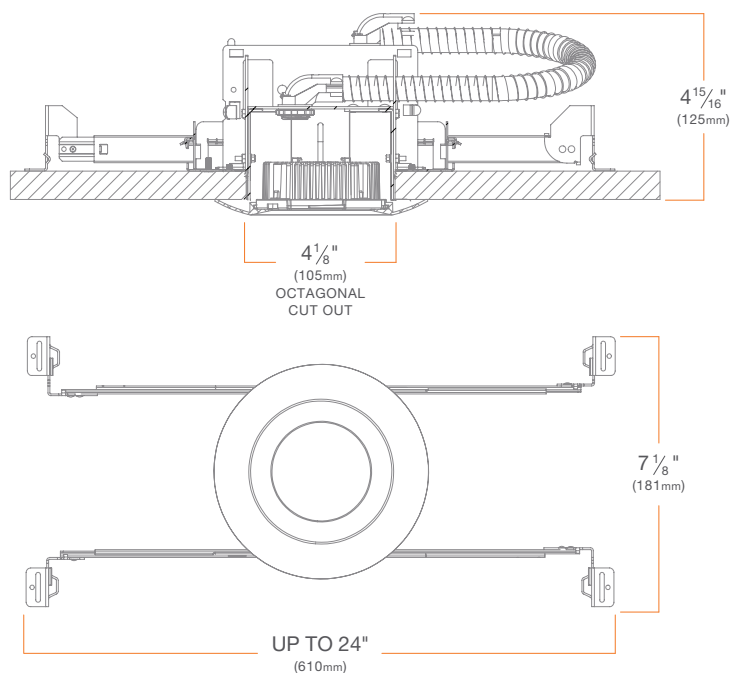
MAX INPUT CURRENT (120V): 0.090 amps (600 lm), 0.107 amps (750 lm), 0.11 amps (600 lm Warm Dim)

MAX INPUT CURRENT (277V): 0.042 amps (600 lm), 0.050 amps (750 lm), 0.047 amps (600 lm Warm Dim)

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

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 102

DIMMING: Down to less than 1% for 0-10V or Lutron Hi-lume® 1%

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

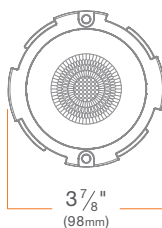
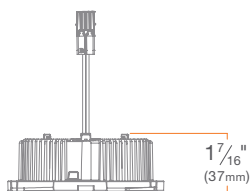
AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

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 (flanged and non-EM trims only), 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)



TRIM



SurfaceFrame Trim

Junction Box

DRD2TRJ

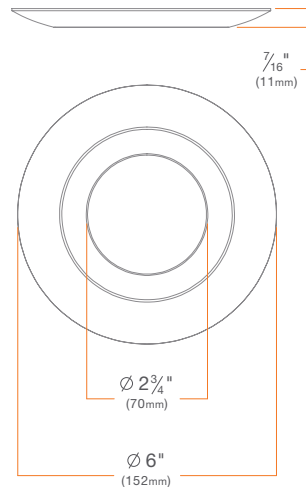
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

Surface Mount Trim

DRD2TRJSWH





DRD2X & SurfaceFrame Alt/EM

Apex Series Recessed LED Downlight

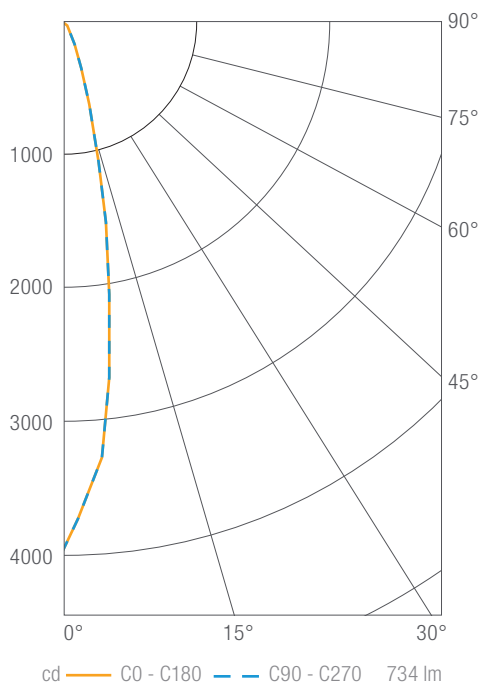
Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

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

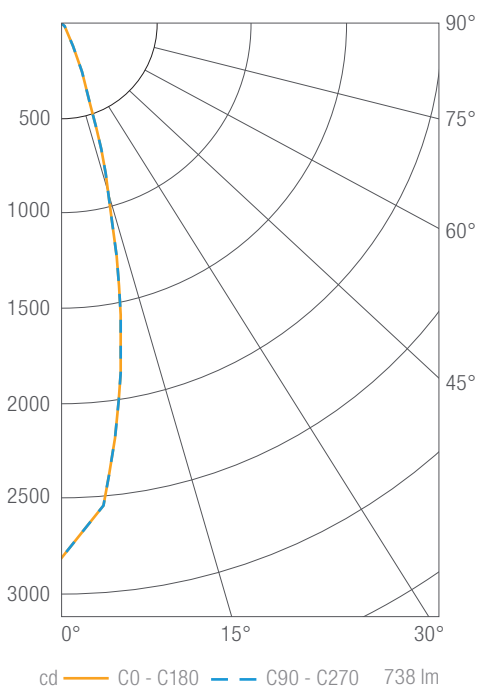
Illuminance Chart

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°



DRD2X & SurfaceFrame Alt/EM

Apex Series Recessed LED Downlight

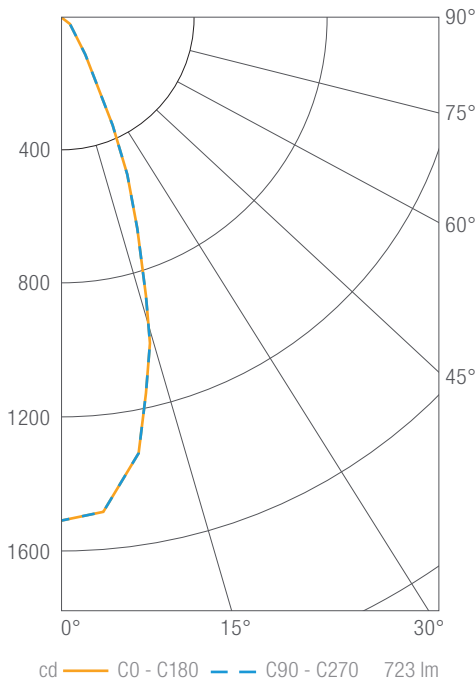
Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

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



DRD2X & SurfaceFrame Alt/EM

Apex Series Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

0-10V DIMMER COMPATIBILITY

Recommended 0-10V Dimmers (Dims down to 1% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2X06	Max Load DRD2X07
Legrand	Titan	CD4FB	80	65
Leviton	IllumaTech	IP710-DLZ	40	30
Lithonia	Synergy	ISD BC	35	30
Lutron	Diva	DVTV	60	50
	Nova	NFTV	60	50
	Nova	NTSTV-DV	60	50
	PowPak	RMJ-5T-DV	60	50



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