

DRD2X



Apex Series Shallow Recessed LED Downlight Retrofit Junction Box

Project:	Type:
Product Code:	Date:

Spec Sheet V-02.28.19



- 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
- Engineered to install into a wide range of junction boxes

Application Retrofit	Aperture 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°)
Module Finish White, Black	Center Beam Candlepower 4000cd (Spot 750 lm)
Input Voltage 120/277V	Dimming TRIAC/ELV 5%
Trims Round	Trim Finish White

Standards



Ratings



UL Listed for Wet location

Guarantee

50,000 hrs | 5 years



PRODUCT BUILDER

MODULE

PRODUCT CODE		LUMENS		CRI		CCT		OPTICS		SURROUND	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
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				

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

ADAPTER

PRODUCT CODE	
<input type="text"/>	
DRD2X-4SJ-PLATE	Junction Box Mounting Adapters

MODULE


DRD2X

Apex Series LED Module

DRD2X

SUMMARY

LED: Cree® LED

DELIVERED LUMENS: 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

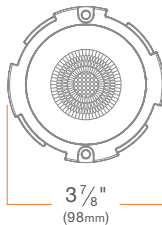
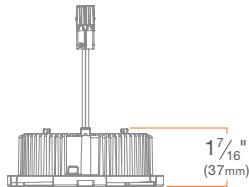
TOTAL HARMONIC DISTORTION: Less than 20%

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


TRIM



Junction Box Trims

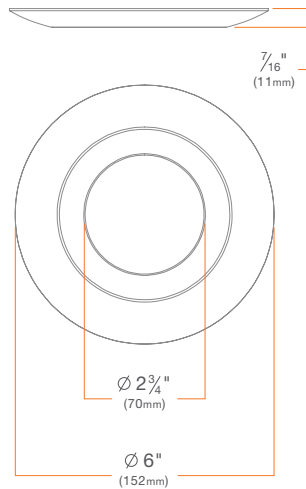
Shallow Recessed LED Downlight Trims

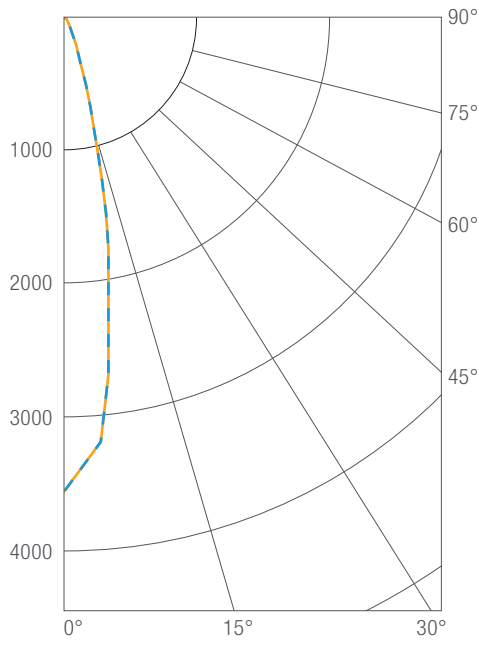
DRD2TRJ

SUMMARY

CONSTRUCTION: Die-cast aluminum**INSTALLATION:** Twist & Lock

Junction Box Trim

DRD2TRJSWH

PHOTOMETRY
DRD2X 750 lm, 90 CRI, 3000K, Spot, White DRD2X07930SPWH
Junction Box Trim Round, White DRD2TRJSWH


cd — C0 - C180 — C90 - C270 732 lm

Luminous Intensity

Gamma	C 0°
0.0°	3569
5.0°	3203
10.0°	1981
15.0°	908
20.0°	397
25.0°	195
30.0°	111
35.0°	75
40.0°	53
45.0°	36
50.0°	26
55.0°	20
60.0°	14
65.0°	8
70.0°	4
75.0°	1
80.0°	0
85.0°	1
90.0°	0

Values in candela

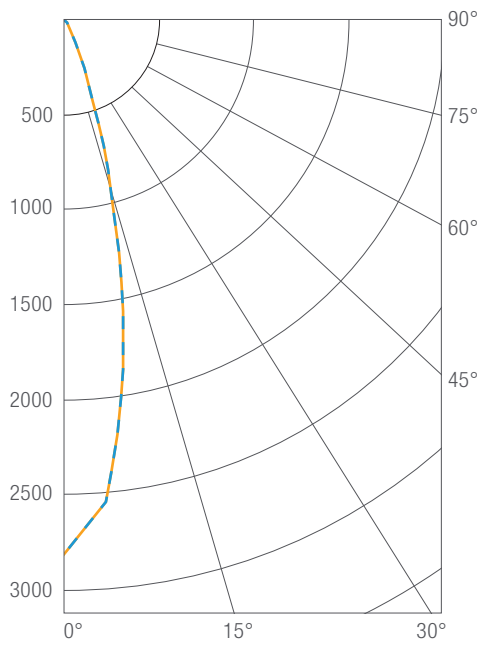
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	630	86
0-40	677	93
0-60	722	99
0-90	732	100
0-180	732	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	397	1.1'
6.0'	99	2.2'
9.0'	44	3.3'
12.0'	25	4.4'

Beam Angle: 20°

DRD2X 750 lm, 90 CRI, 3000K, Narrow Flood, White DRD2X07930NFWH
Junction Box Trim Round, White DRD2TRJSWH


cd — C0 - C180 — C90 - C270 735 lm

Luminous Intensity

Gamma	C 0°
0.0°	2814
5.0°	2546
10.0°	1818
15.0°	1002
20.0°	451
25.0°	202
30.0°	102
35.0°	59
40.0°	39
45.0°	28
50.0°	20
55.0°	15
60.0°	10
65.0°	7
70.0°	5
75.0°	3
80.0°	0
85.0°	0
90.0°	0

Values in candela

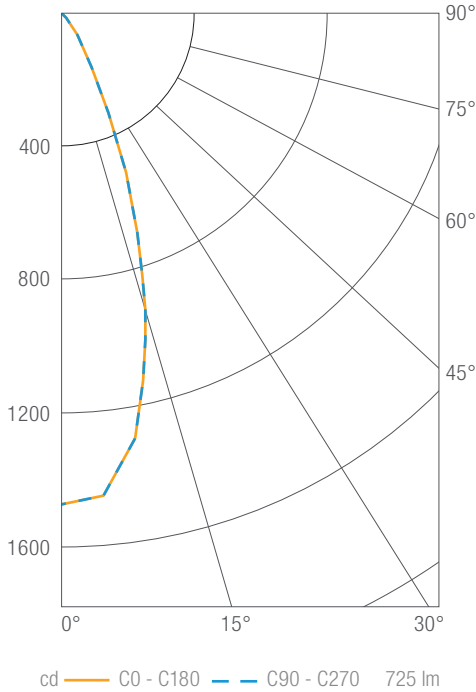
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	649	87
0-40	693	93
0-60	731	98
0-90	743	100
0-180	743	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	313	1.5'
6.0'	78	2.9'
9.0'	35	4.4'
12.0'	20	5.8'

Beam Angle: 28°

PHOTOMETRY
DRD2X 750 lm, 90 CRI, 3000K, Flood, White DRD2X07930FLWH
Junction Box Trim Round, White DRD2TRJSWH

Luminous Intensity

Gamma	C 0°
0.0°	1474
5.0°	1454
10.0°	1295
15.0°	989
20.0°	632
25.0°	346
30.0°	180
35.0°	95
40.0°	55
45.0°	38
50.0°	28
55.0°	20
60.0°	15
65.0°	11
70.0°	6
75.0°	3
80.0°	2
85.0°	0
90.0°	0

Values in candela
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	584	81
0-40	655	90
0-60	708	98
0-90	725	100
0-180	725	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	164	2.1'
6.0'	41	4.1'
9.0'	18	6.2'
12.0'	10	8.3'

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
	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.