

DRD4 & OneFrame

Adjustable Downlighting System

New Construction
Deep Junction Box

Project:	Type:
Product Code:	Date:

V051822



Fully Adjustable 360° directional aiming for complete light coverage

Precise Control Class leading 45° tilt with 15°, 25° or 40° field-changeable light distributions

Dim to Dark Smooth, flicker-free dimming down to 1% with centralized or local control

Fast Install Integrated drive, plug-and-play connection, and Twist & Lock Trims

Modular Design Flexibility during and after installation with interchangeable modules, shatterproof polycarbonate optics and trims

OPTICAL

Adjustment

360° directional aim, 45° tilt

Delivered Lumens (Power)

750 lm (9.7W), 1000 lm (12W)

Color Quality

93+ CRI, 2-step SDCM

Color Temperature

2700K 3000K 3500K
4000K Warm Dim (3000–1800K)

Beam Spread

Narrow Spot (15°) Linear (60° x 30°)
Spot (25°) Soft Focus
Flood (40°)

PHYSICAL

Application

New Construction, Poured Concrete

Aperture

4" Octagonal Deep Junction Box

Ceiling Thickness

½" up to 1¾"

TRIMS

Available Trims

Round Beveled, Hyperbolic, Pinhole, Beveled Pinhole, Flangeless

Trim Finish

White, Black, Silver, Custom

ELECTRICAL & CONTROLS

Input Voltage

120 / 277V

1% Dimming

TRIAC/ELV, 0-10V, Lutron EcoSystem

RATINGS

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 Damp Location



Declare.





PRODUCT BUILDER

ONEFRAME HOUSING

PRODUCT CODE		APPLICATION		APERTURE		DIMMING		OPTION	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DRDH	Housing	N	New Construction	JD	Deep Junction Box	[Blank]	Integrated	[Blank]	None
				JC	Deep Junction Box, Concrete Tight ¹	704	0-10V ² , 750 lm	EM	Emergency Battery ⁴ , Integrated Test Switch
						1004	0-10V ² , 1000 lm	EMS	Emergency Battery ⁴ , Remote Test Switch
						10OW4	0-10V ² , 1000 lm, Warm Dim		
						7C4	Lutron EcoSystem ³ , 750 lm		
						10C4	Lutron EcoSystem ³ , 1000 lm		
						10CW4	Lutron EcoSystem ³ , 1000 lm, Warm Dim		

DRD4 MODULE

PRODUCT CODE		LUMENS		CRI		CCT		BEAM SPREAD		FINISH		DIMMING	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DRD4M	Module	07	750 lm	9	93+ CRI	27	2700K	NS	Narrow Spot (15°) ⁶	[Blank]	Black	T	Integrated TRIAC/ELV
		10	1000 lm			30	3000K	SP	Spot (25°)	W	White		
						35	3500K	FL	Flood (40°)			O	Integrated 0-10V
						40	4000K	LS	Linear (60° x 30°)				
						3W	Warm Dim ⁵	SF	Soft Focus			A	Alternate for use with EM or Lutron EcoSystem

ONEFRAME TRIM

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH		OPTION	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DRD2T	Trim	R	Round	JD	Deep Junction Box	S	Beveled	WH	White	[Blank]	None
						H	Hyperbolic ⁷	BK	Black	FL	Flangeless ^{7,8}
						P	Pinhole ⁷	SW	Silver Reflector, White Flange	EM	Emergency ^{7,9}
						B	Beveled Pinhole ⁷	CC	Custom Color		

DRDHX-MUD-FL	Flangeless Mud Plate (Required with Flangeless Trim)
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¹ Only available in Integrated dimming

² Only available in Emergency Battery option

³ Lutron EcoSystem refers to LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black™

⁴ Only available in 0-10V or Lutron EcoSystem dimming

⁵ Only available in 1000 lm

⁶ Not available in Warm Dim CCT

⁷ Only available in White or Custom Color finish

⁸ Requires DRDHX-MUD-FL Mud Plate

⁹ Only available in Beveled style

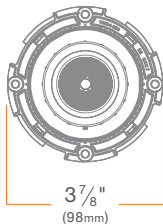
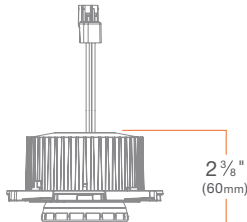


PRODUCT BUILDER

OPTICS ACCESSORIES

PRODUCT CODE	
<input type="text"/>	
DRD4X-NS	Narrow Spot (15°)
DRD4X-SP	Spot (25°)
DRD4X-FL	Flood (40°)
DRD4X-LS	Linear Spread (60° x 30°)
DRD4X-SF	Soft Focus
DRD4X-OP	Optics Kit: Narrow Spot (15°), Spot (25°), Flood (40°), Linear Spread (60° x 30°), Soft Focus

MODULE



DRD4

Adjustable Downlight

DRD4M

SUMMARY

ADJUSTMENT: 360° directional aim, 45° tilt**SLOPE CEILING COMPATIBILITY:** Up to 45°**LED CHIP:** Cree**DELIVERED LUMENS (w Trim):** 750 lm (9.7W), 1000 lm (12.0W)**EFFICACY:** 82 lm/W**COLOR QUALITY:** 93+ CRI, 2-step SDCM**CCT:** 2700K, 3000K, 3500K, 4000K**BEAM SPREAD:** Narrow Spot (15°), Spot (25°), Flood (40°), Linear Spread (60° x 30°), Soft Focus**CONNECTOR:** PowerPlug® Luminaire Disconnect Model 182**INPUT VOLTAGE:** 120/277V, 50/60Hz**DIMMING:** Down to less than 1% for TRIAC/ELV at 120V, 0-10V or Lutron EcoSystem at 120/277V**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 Damp Location, cULus Listed, Declare**LIFETIME:** 50,000 hours at 70% lumen maintenance**WARRANTY:** 5 year limited warranty

WARM DIM OPTION

LED: Bridgelux LED, **DELIVERED LUMENS (w Trim):** 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

*Excludes Pinhole Trims

HOUSING



OneFrame

New Construction
Deep Junction Box
DRDHNJD

SUMMARY

JUNCTION BOX: Equipped with (8) trade size knockouts (four concentric side ($\frac{3}{4}" + \frac{1}{2}"$), two concentric top ($\frac{3}{4}" + \frac{1}{2}"$), two $\frac{1}{2}"$ top) and (4) Romex knockouts (top) to allow straight conduit runs. Approved for 8 (four in, four out) #12 AWG 70°C.

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

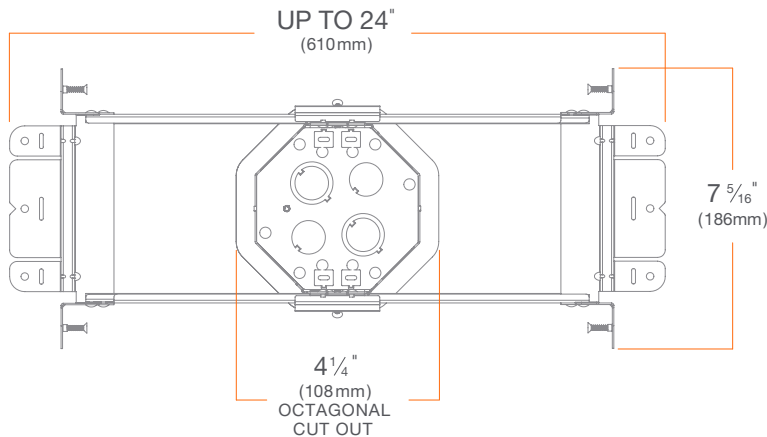
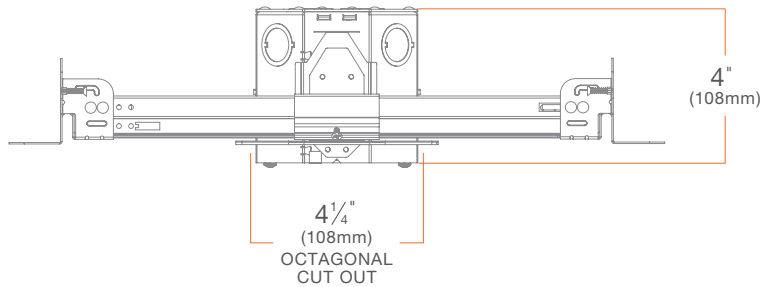
CEILING: $\frac{1}{2}"$ up to $1 \frac{3}{4}"$

CUTOUT: $4 \frac{1}{4}"$ (108mm) octagonal opening

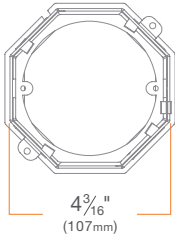
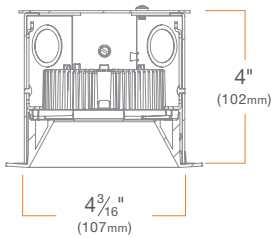
LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated.

MAINTENANCE: Fully accessible from below the ceiling for inspection and maintenance.

WARRANTY: 5 year limited warranty



HOUSING - Concrete Tight



OneFrame

Concrete Tight

Deep Junction Box

DRDHNJC

- Designed for high rise structures that require steel and concrete for reinforcement
- Features spot-welded areas and adaptations for poured concrete applications

SUMMARY

JUNCTION BOX: Equipped with (4) trade size concentric knockouts ($\frac{3}{4}" + \frac{1}{2}"$) to allow straight conduit runs. Approved for 8 (four in, four out) #12 AWG 90°C.

MOUNTING: (2) external tabs for wood, steel or concrete form mounting

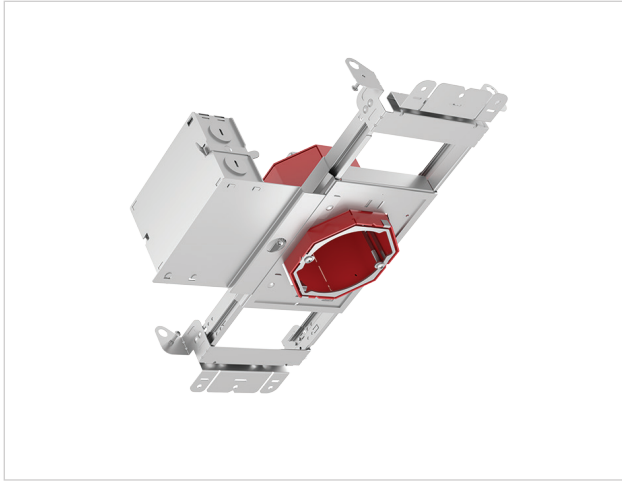
COVER: Removable top cover for easy access to electrical wiring work prior to concrete pour

APPLICATION: Poured deck (floor) high-rise new construction

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

WARRANTY: 5 year limited warranty

HOUSING - Emergency Lighting or Lutron EcoSystem Dimming



OneFrame

Emergency Lighting or Lutron EcoSystem Dimming
Deep Junction Box

DRDHNJD

- Offers compatible dimming with Emergency Lighting or Lutron EcoSystem Hi-Lume® 1% protocol

SUMMARY

JUNCTION BOX: Equipped with (2) trade size concentric top knockouts ($\frac{3}{4}$ " + $\frac{1}{2}$ ") to allow straight conduit runs. Approved for 2 (one in, one out) #12 AWG 70°C.

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: $4\frac{1}{4}$ " (108mm) 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

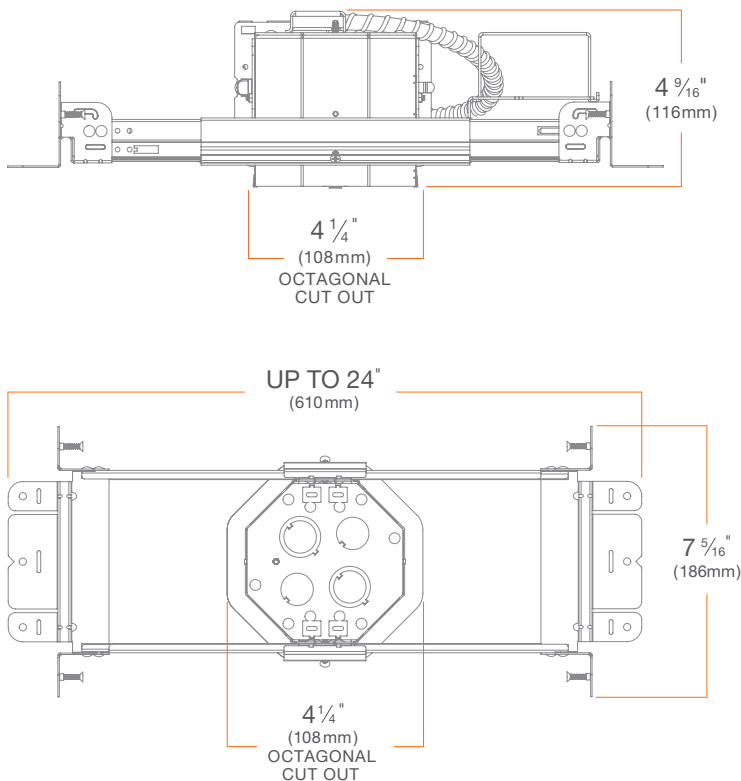
MAX INPUT CURRENT (120V): 0.090 amps (750 lm), 0.107 amps (1000 lm), 0.11 amps (1000 lm Warm Dim)

MAX INPUT CURRENT (277V): 0.042 amps (750 lm), 0.050 amps (1000 lm), 0.047 amps (1000 lm Warm Dim)

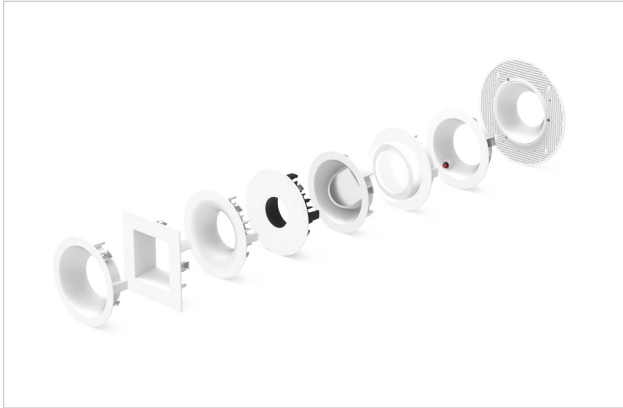
POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

WARRANTY: 5 year limited warranty



TRIM



OneFrame Trims

Recessed LED Downlight Trims

DRD2T

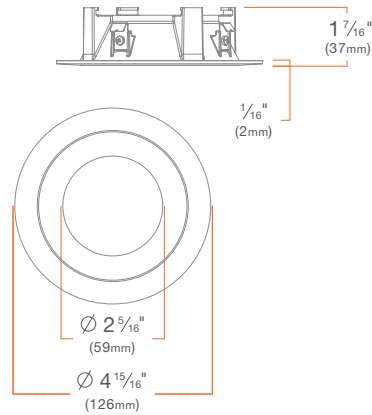
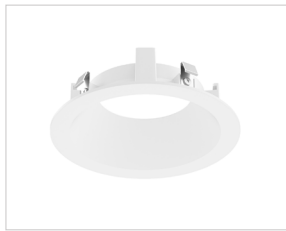
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock (flanged trims only)

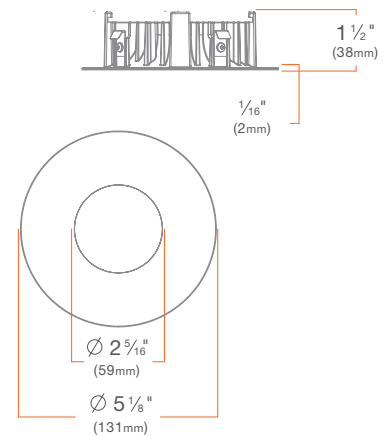
Beveled Trim

DRD2TRJDSWH



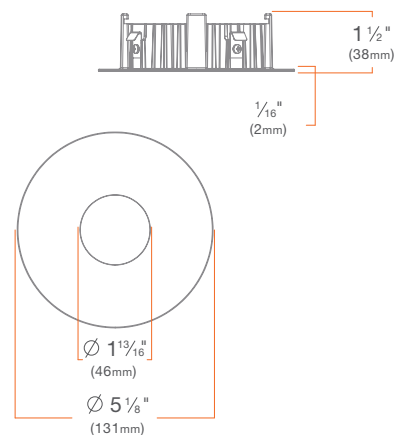
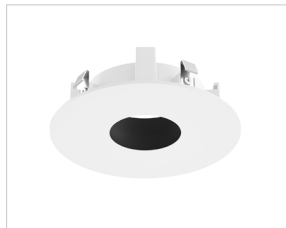
Hyperbolic Trim

DRD2TSJDHWH



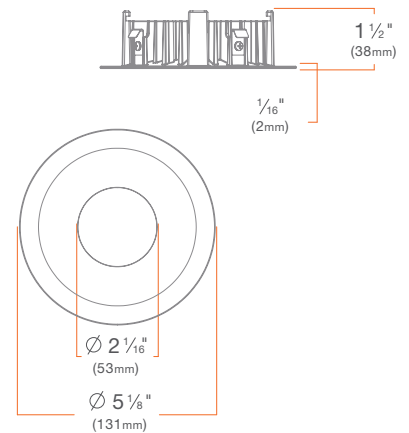
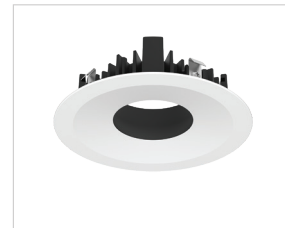
Pinhole Trim

DRD2TRJDPWH



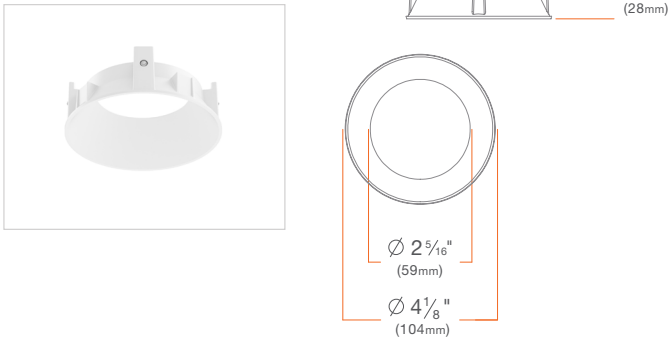
Beveled Pinhole Trim

DRD2TRJDBWH



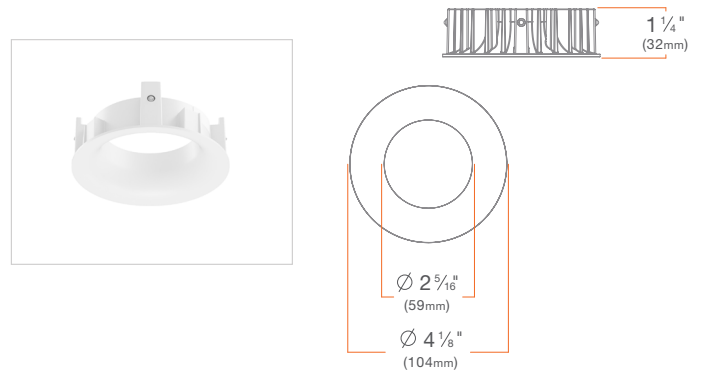
Round Flangeless Trim Insert

DRD2TRJDSWHFL



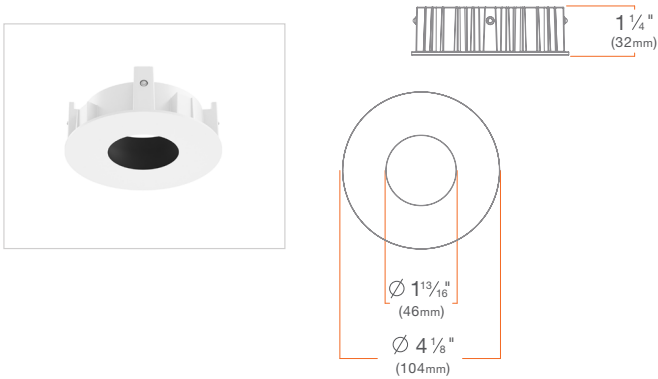
Hyperbolic Flangeless Trim Insert

DRD2TRJDHWHFL



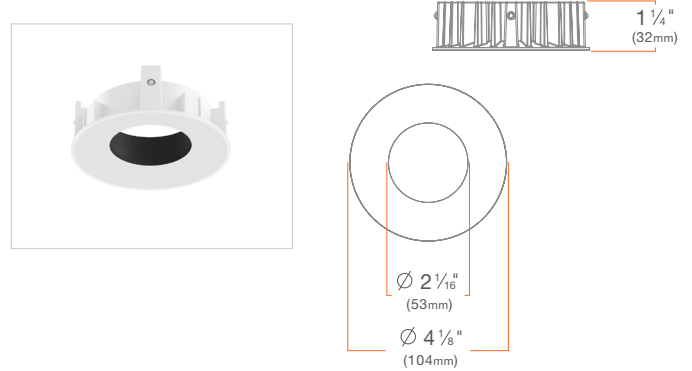
Pinhole Flangeless Trim Insert

DRD2TRJDPWHFL



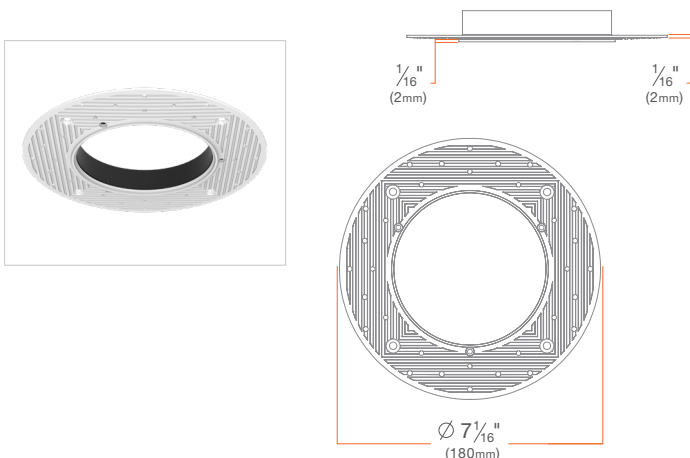
Beveled Pinhole Flangeless Trim Insert

DRD2TRJDBWHFL

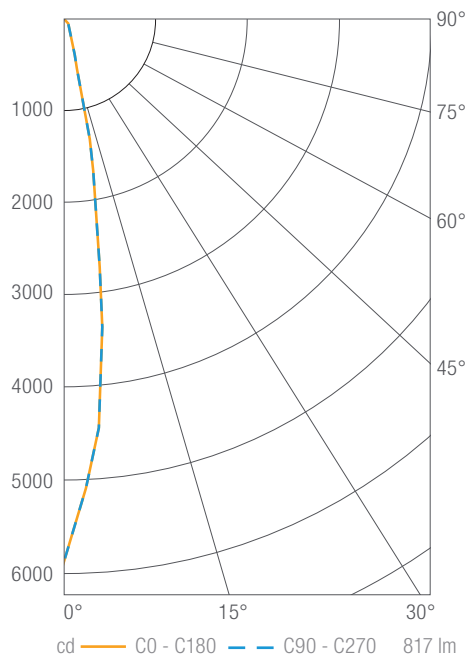


Flangeless Mud Plate

DRDHX-MUD-FL



PHOTOMETRY

DRD4 750 lm, 3000K, Narrow Spot**DRD4M07930NS**

Luminous Intensity

Gamma	C 0°
0°	5897
5°	4418
10°	1911
15°	561
20°	280
25°	165
30°	117
35°	87
40°	69
45°	57
50°	47
55°	38
60°	31
65°	23
70°	16
75°	10
80°	4
85°	1
90°	0

Values in candela

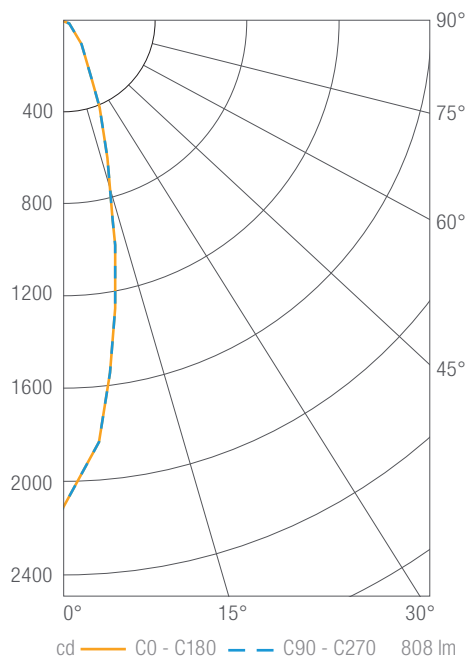
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	645	79
0-40	701	86
0-60	781	96
0-90	817	100
0-180	817	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	655	0.8'
6'	164	1.7'
9'	73	2.5'
12'	41	3.3'

Beam Angle: 16°

DRD4 750 lm, 3000K, Spot**DRD4M07930SP**

Luminous Intensity

Gamma	C 0°
0°	2105
5°	1826
10°	1282
15°	800
20°	497
25°	310
30°	201
35°	137
40°	98
45°	73
50°	57
55°	45
60°	35
65°	23
70°	12
75°	5
80°	3
85°	2
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	573	71
0-40	668	83
0-60	773	96
0-90	808	100
0-180	808	100

Illuminance Chart

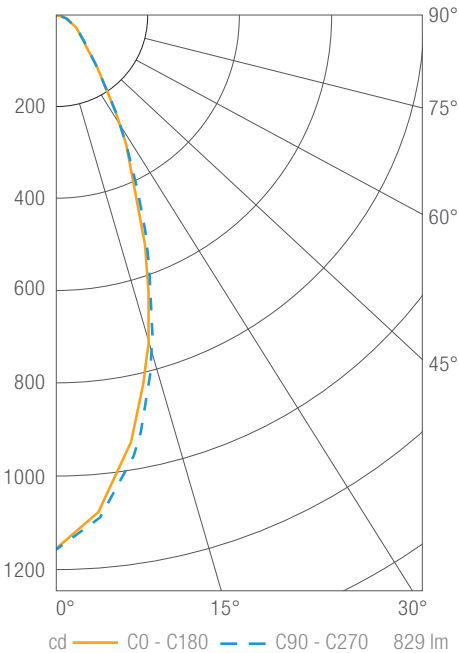
Distance from LED	Foot Candles	Diameter
3'	234	1.3'
6'	58	2.6'
9'	26	3.9'
12'	15	5.2'

Beam Angle: 28°

PHOTOMETRY

DRD4 750 lm, 3000K, Flood

DRD4M07930FL



Luminous Intensity

Gamma	C 0°
0°	1158
5°	1081
10°	941
15°	765
20°	576
25°	414
30°	288
35°	192
40°	130
45°	96
50°	76
55°	61
60°	49
65°	38
70°	28
75°	18
80°	10
85°	4
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	510	62
0-40	633	76
0-60	766	92
0-90	829	100
0-180	829	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	129	2.2'
6'	32	4.5'
9'	14	6.7'
12'	8	9.0'

Beam Angle: 41°