

DRD Series

Modular Downlighting System

4" Square

Project:	Type:
Product Code:	Date:

V012523



Modular System Flexibility during and after installation with interchangeable modules, optics and trims

Quick Install Integrated driver and plug-and-play connection require no wiring

High Performance Precise lighting control without sacrificing stellar efficiency

Enhanced Dimming Smooth, flicker-free dimming down to 1%

OPTICAL

Module

Fixed, Adjustable

Delivered Lumens (Power)

750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W), 1500 lm (16.5W)

Color Quality

93+ CRI, 2-step SDCM

Color Temperature

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

Beam Spread

Narrow Spot (15°) General (90°+)
Spot (25°) Linear
Flood (40°) Soft Focus
Wide Flood (60°)

PHYSICAL

Aperture

4"

Application

New Construction, Remodel

Shape

Square

Ceiling Thickness

1/2" up to 1 3/4" (New Construction)
5/8" up to 1 1/4" (Remodel)

TRIMS

Aperture

4"

Shape

Square

Style

Beveled, Round on Square, Pinhole, Beveled Pinhole, Wall Wash, Decorative, Flangeless, Dead Front

Finish

White, Black, Bronze, Clear Diffused, Warm Diffused, Custom

ELECTRICAL & CONTROLS

Input Voltage

120 / 277V

1% Dimming

TRIAC/ELV, 0-10V, EcoSystem

RATINGS

Housing

- IC (Insulation Contact) Rated
- ASTM E283 Certified Air Tight
- Code compliant for use in fire-rated assemblies up to a maximum of 2-hours
- STC/IIC Sound Rated
- Chicago Plenum

Module and Trim

- UL Listed for Wet Location
(Fixed Module with Flanged Trim only)



PRODUCT BUILDER - TRIAC/ELV & 0-10V

M SERIES HOUSING

PRODUCT CODE		APPLICATION		SHAPE		RATING	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
M4	4" Housing	NC	New Construction	S	Square	S	Standard
		CP	Chicago Plenum ¹			F	Fire Rated
		LT	Low Profile TRIAC (3" Plenum) ²				
		LO	Low Profile 0-10V (3" Plenum) ²				
		RM	Remodel				

DRD 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"/>	
DRD2M	Fixed	07	750 lm	9	93+ CRI	27	2700K	GA	General Ambient (90°+) ³	[Blank]	Black	T	TRIAC/ELV
DRD4M	Adjustable	10	1000 lm			30	3000K	NS	Narrow Spot (15°) ⁵	W	White ⁶	O	0-10V
		12	1250 lm ³			35	3500K	SP	Spot (25°)				
		15	1500 lm ³			40	4000K	FL	Flood (40°)				
						3W	Warm Dim ⁴	WF	Wide Flood (60°) ³				
								LS	Linear Spread				
								SF	Soft Focus				

M SERIES TRIM

PRODUCT CODE		SHAPE		STYLE		FINISH		OPTION	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
M4T	4" Trim	S	Square	S	Beveled ³	WH	White	[Blank]	None
				Q	Round on Square	BK	Black	DCF	Decorative: Closed, Frosted ^{3,8,9,10,11}
				P	Pinhole ^{7,8}	BZ	Bronze	DCCF	Decorative: Closed, Clear, Frosted Inside ^{3,8,9,10,11}
				B	Beveled Pinhole ^{7,8}	CW	Clear Diffuse, White Flanged	FL	Flangeless ^{7,13}
				W	Wall Wash ^{2,3,11}	WW	Warm Diffuse, White Flanged	DF	Dead Front ^{3,9,10,12}
						CC	Custom Color		

M4XSMUD	Flangeless Mud Plate <i>(Required for Flangeless Trim drywall installation)</i>
M4KSTEMPLATE	Flangeless Wood Template <i>(Recommended for Flangeless Trim wood installation)</i>

¹ Only available in Standard rating

² Not available for 1500 lm

³ Only available in Fixed module

⁴ Only available in 1000 lm

⁵ Not available in Warm Dim CCT

⁶ Only available for Adjustable module

⁷ Only available in White, Black, Bronze or Custom Color finish

⁸ Only available for 750 lm or 1000 lm

⁹ Only available in White or Custom Color finish

¹⁰ Only available in Beveled style

¹¹ Only available for General Ambient beam spread

¹² Only available in 750 lm

¹³ Mudplate is required for all FL trims except for wood ceiling applications

PRODUCT BUILDER - ECOSYSTEM DIMMING OR EMERGENCY LIGHTING

M SERIES HOUSING

PRODUCT CODE		APPLICATION		SHAPE		RATING		LUMEN		DIMMING		OPTION	
M4	4" Housing	NC	New Construction	S	Square	S	Standard	07	750 lm	C	Lutron EcoSystem ¹	[Blank]	None
						F	Fire Rated	10	1000 lm	T	TRIAC/ELV for EM only	EM	EM Driver, Integrated Switch ¹³
								12	1250 lm	O	0-10V for EM only	ES	EM Driver, Remote Switch

DRD MODULE

PRODUCT CODE		LUMENS		CRI		CCT		BEAM SPREAD		FINISH		DIMMING	
DRD2M	Fixed	07	750 lm	9	93+ CRI	27	2700K	GA	General Ambient (90°+) ²	[Blank]	Black	A	Alternate
DRD4M	Adjustable	10	1000 lm			30	3000K	NS	Narrow Spot (15°) ⁴	W	White ⁵		
		12	1250 lm ²			35	3500K	SP	Spot (25°)				
						40	4000K	FL	Flood (40°)				
						3W	Warm Dim ³	WF	Wide Flood (60°) ²				
								LS	Linear Spread				
								SF	Soft Focus				

M SERIES TRIM

PRODUCT CODE		SHAPE		STYLE		FINISH		OPTION	
M4T	4" Trim	S	Square	S	Beveled ²	WH	White	[Blank]	None
				Q	Round on Square	BK	Black	DCF	Decorative: Closed, Frosted ^{2,7,8,9,10}
				P	Pinhole ^{6,7}	BZ	Bronze	DCCF	Decorative: Closed, Clear, Frosted Inside ^{2,7,8,9,10}
				B	Beveled Pinhole ^{6,7}	CW	Clear Diffuse, White Flanged	FL	Flangeless ⁶
				W	Wall Wash ^{2,10}	WW	Warm Diffuse, White Flanged	DF	Dead Front ^{2,8,9,11}
						CC	Custom Color	EM	Integrated Test Switch ^{9,12,13}

M4XSMUD	Flangeless Mud Plate <i>(Required for Flangeless Trim drywall installation)</i>
M4KSTEMPLATE	Flangeless Wood Template <i>(Recommended for Flangeless Trim wood installation)</i>

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

² Only available in Fixed module

³ Only available in 1000 lm

⁴ Not available in Warm Dim CCT

⁵ Only available for Adjustable module

⁶ Only available in White, Black, Bronze or Custom Color finish

⁷ Only available for 750 lm or 1000 lm

⁸ Only available in White or Custom Color finish

⁹ Only available in Beveled style

¹⁰ Only available for General Ambient beam spread

¹¹ Only available for 750 lm

¹² Only available in White, Clear Diffuse, Warm Diffuse or Custom Color finish

¹³ Integrated Test Switch option required for both housing and trim

PRODUCT BUILDER

OPTICS ACCESSORIES

PRODUCT CODE	
<input type="text"/>	
DRD2X-GA	Fixed Conversion Kit: DRD2 Module to General Ambient (90°+)
DRD2X-NS	Fixed Narrow Spot (15°)
DRD2X-SP	Fixed Spot (25°)
DRD2X-FL	Fixed Flood (40°)
DRD2X-WF	Fixed Wide Flood (60°)
DRD2X-LS	Fixed Linear Spread (40° x 20°)
DRD2X-SF	Fixed Soft Focus
DRD2X-OP	Fixed Optics Kit: Narrow Spot (15°), Spot (25°), Flood (40°), Wide Flood (60°), Linear Spread (40° x 20°), Soft Focus
DRD4X-NS	Adjustable Narrow Spot (15°)
DRD4X-SP	Adjustable Spot (25°)
DRD4X-FL	Adjustable Flood (40°)
DRD4X-LS	Adjustable Linear Spread (60° x 30°)
DRD4X-SF	Adjustable Soft Focus
DRD4X-OP	Adjustable Optics Kit: Narrow Spot (15°), Spot (25°), Flood (40°), Linear Spread (60° x 30°), Soft Focus

MODULE



DRD2

Fixed Downlight

DRD2M

SUMMARY

LED CHIP: Cree

DELIVERED MODULE LUMENS: 750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W), 1500 lm (16.5W)

EFFICACY: 79 lm/W, 80 lm/W, 87 lm/W, 90 lm/W

COLOR QUALITY: 93+ CRI, 2-step SDCM

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

BEAM SPREAD: General Ambient (90°+), Narrow Spot (15°), Spot (25°), Flood (40°), Wide Flood (60°), Linear Spread (40° x 20°), 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): 0.130 amps

MAX INPUT CURRENT (277V): 0.065 amps

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

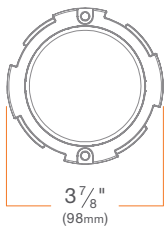
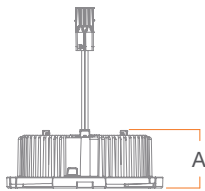
AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

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 (flanged trims only), UL Certified US-CA, Declare

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty



Measurements	A
Standard	1 7/16" [37 mm]
1500 lm	2" [50 mm]

WARM DIM OPTION

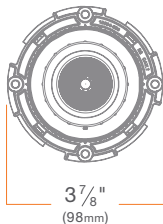
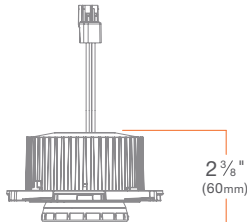
LED: Bridgelux LED, **DELIVERED MODULE LUMENS:** 1000 lm (12.0W),

EFFICACY: 83 lm/W, **CCT RANGE:** 3000K - 1800K, **MAX INPUT**

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

* Refer to ENERGY STAR Certified light fixtures database

MODULE

**DRD4**

Adjustable Downlight

DRD4M

SUMMARY

ADJUSTMENT: 360° directional aim, 45° tilt**SLOPE CEILING COMPATIBILITY:** up to 45° tilt**LED CHIP:** Cree**DELIVERED MODULE LUMENS:** 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):** 0.130 amps**MAX INPUT CURRENT (277V):** 0.065 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, UL Certified US-CA, Declare**LIFETIME:** 50,000 hours at 70% lumen maintenance**WARRANTY:** 5 year limited warranty

WARM DIM OPTION

LED: Bridgelux LED, **DELIVERED MODULE LUMENS):** 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

* Refer to ENERGY STAR Certified light fixtures database

HOUSING



M Series

New Construction

SUMMARY

JUNCTION BOX: Equipped with 12 knockouts: four 1/2" trade size knockouts on side, two 3/4" and two 1/2" trade size knockouts on top and four romex knockouts on top. 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 1/4"

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

CUTOUT: 4" (102mm) square opening

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

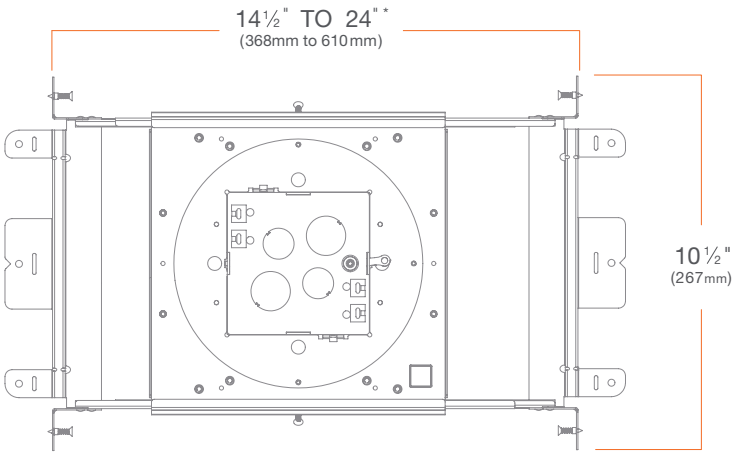
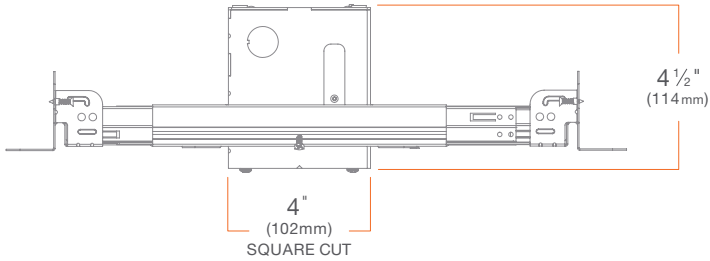
WARRANTY: 5 year limited warranty

ALTERNATE DIMMING SPECIFICATIONS

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%

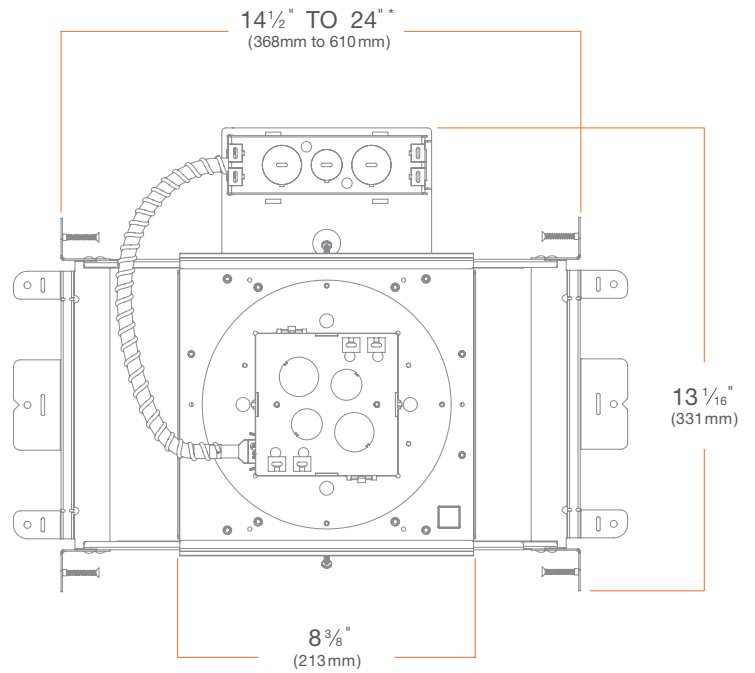
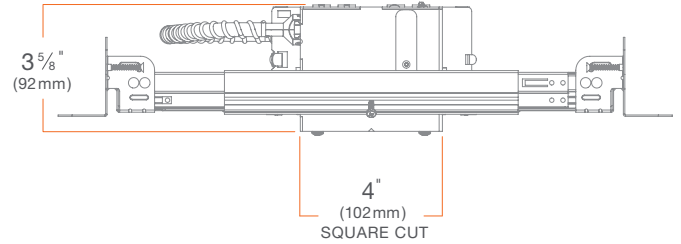
New Construction

- M4NCSS (Standard)
- M4NCSE (Fire Rated)
- M4CPSS (Chicago Plenum)



Low-Profile

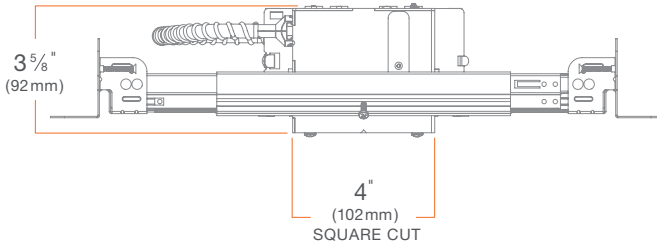
- M4LTSS (Standard, TRIAC/ELV)
- M4LTSF (Fire Rated, TRIAC/ELV)
- M4LOSS (Standard, 0-10V)
- M4LOSF (Fire Rated, 0-10V)



* Can be field cut to minimum 10" (254mm)

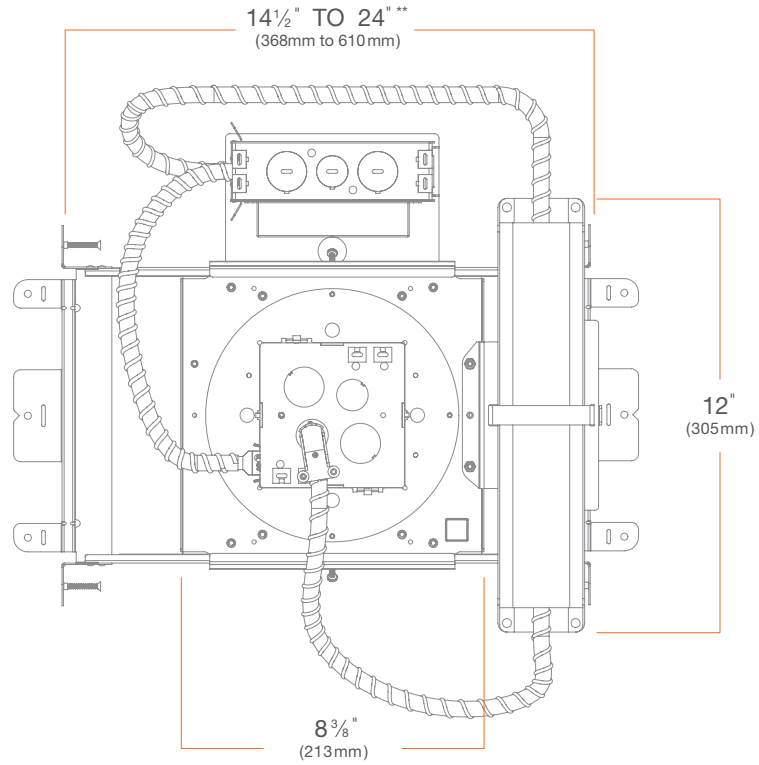
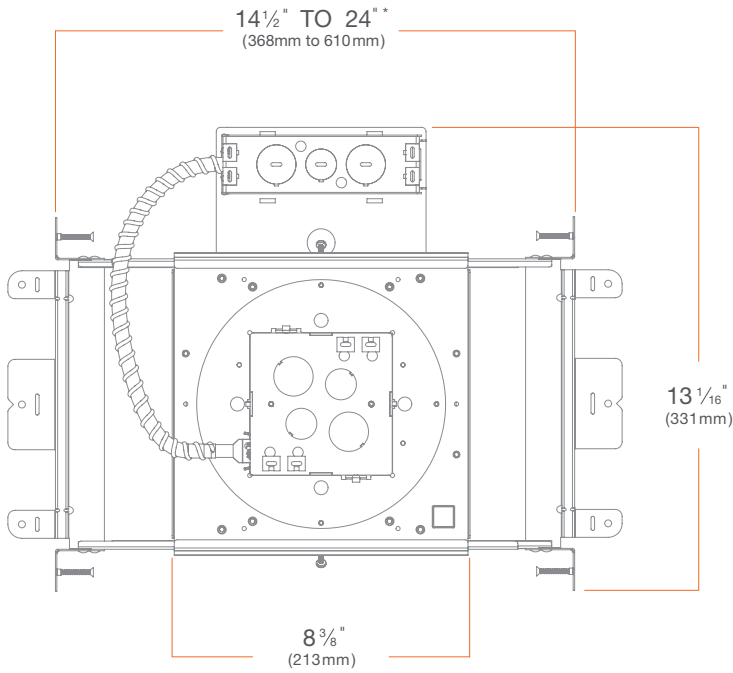
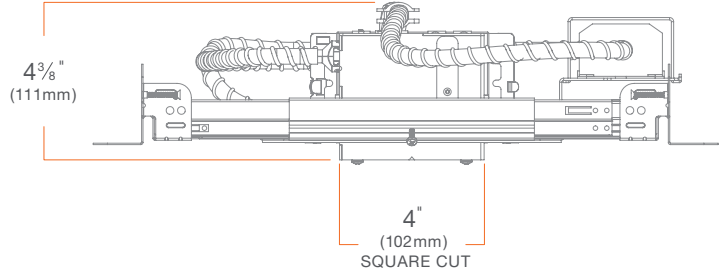
EcoSystem

- M4NCSSxxC (Standard)
- M4NCSSFxxC (Fire Rated)



Emergency Lighting

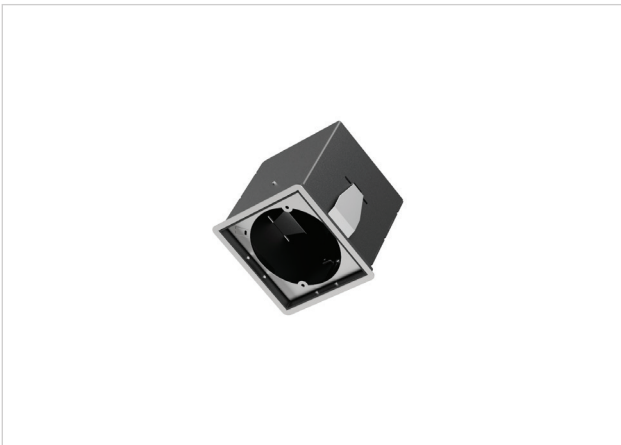
- M4NCSSxxxEM (Standard)
- M4NCSSFxxxEM (Fire Rated)



* Can be field cut to minimum 10" (254mm)

** Can be field cut to minimum 13" (330mm)

HOUSING



M Series

Remodel

M4RMSS (Standard)

M4RMSF (Fire Rated)

SUMMARY

JUNCTION BOX: Equipped with 8 knockouts: four 1/2" trade size knockouts on side, two 3/4" and two 1/2" trade size knockouts on top and four romex knockouts on top. Approved for 8 (four in, four out) #12 AWG 70°C.

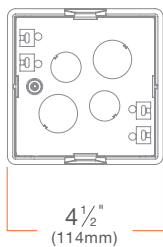
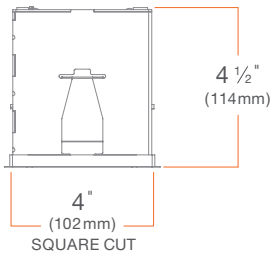
MOUNTING: Pre-installed mounting spring clips

CEILING: 5/8" up to 1 1/4"

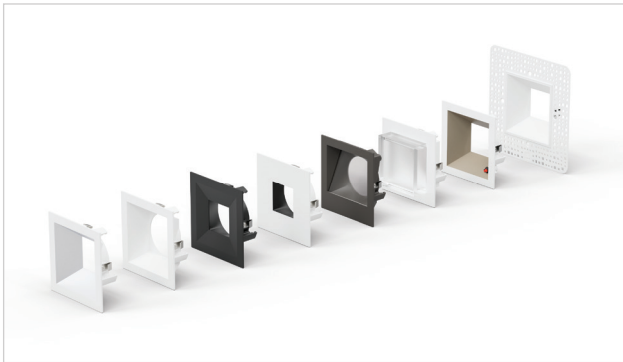
CUTOUT: 4" (102mm) square opening

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

WARRANTY: 5 year limited warranty



TRIMS



M Series

4" Square Trims

M4TS

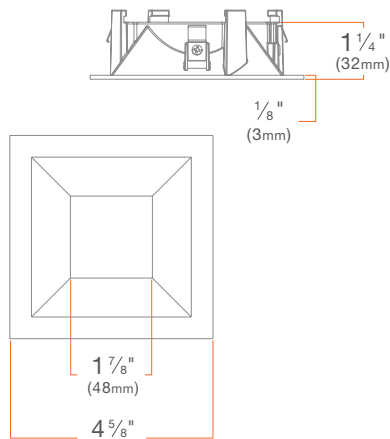
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

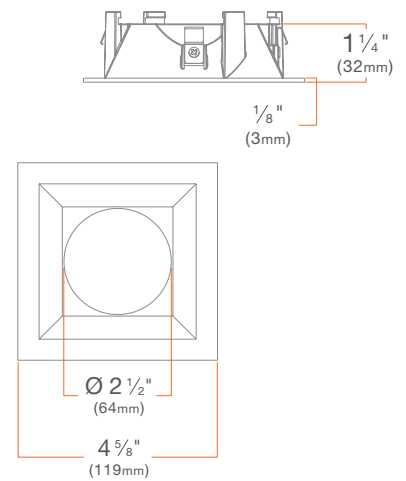
Beveled Trim

M4TSSWH



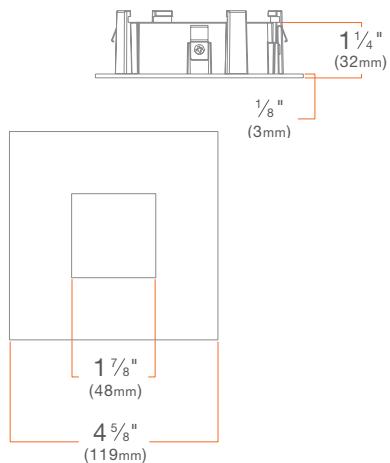
Round on Square Trim

M4TSQWH



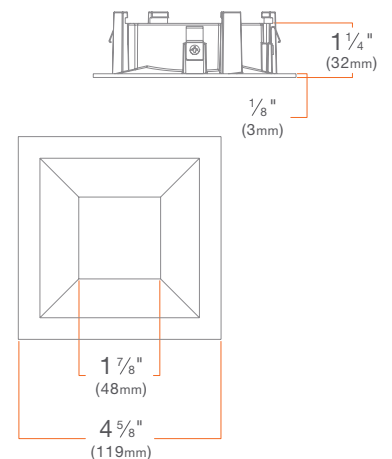
Pinhole Trim

M4TSPWH



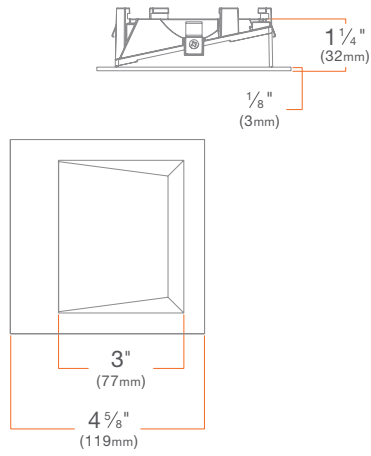
Beveled Pinhole Trim

M4TSBWH



Wall Wash Trim

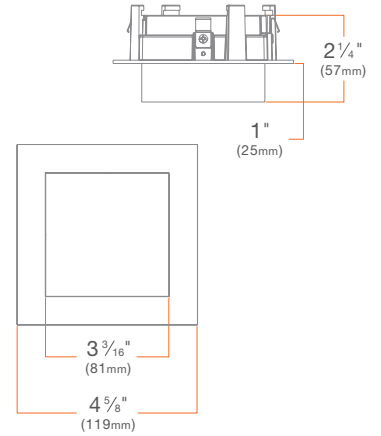
Round: **M4TSWWH**



Decorative Closed Trim

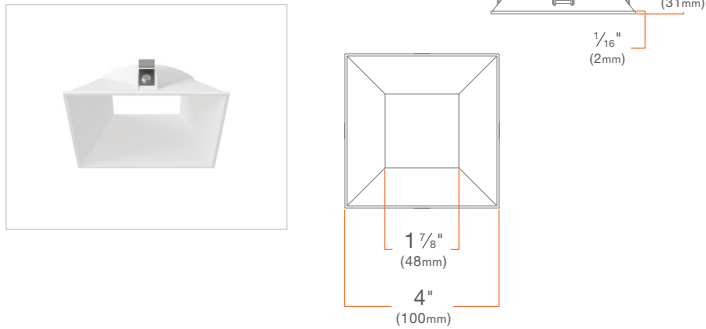
Frosted: **M4TSSWHDCF**

Clear, Frosted Sides: **M4TSSWHDCCF**



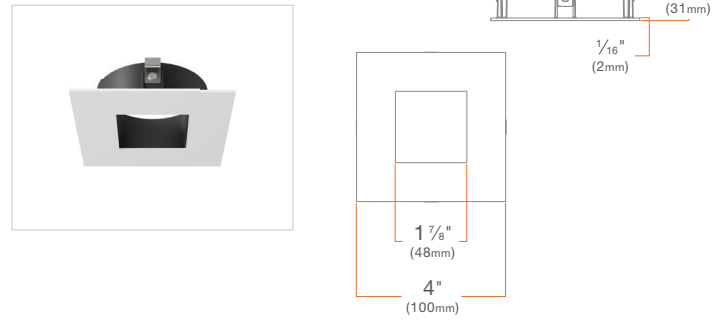
Beveled Flangeless Trim Insert

M4TSSWHFL



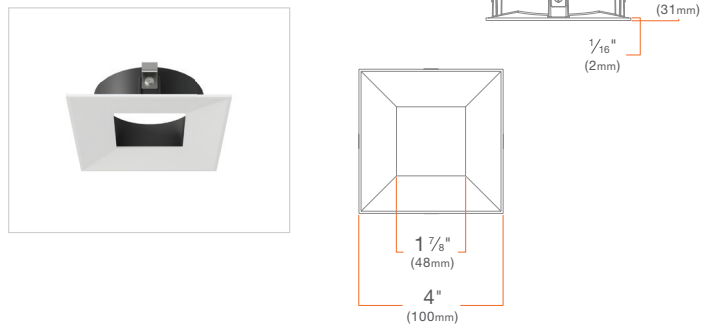
Pinhole Flangeless Trim Insert

M4TSPWHFL



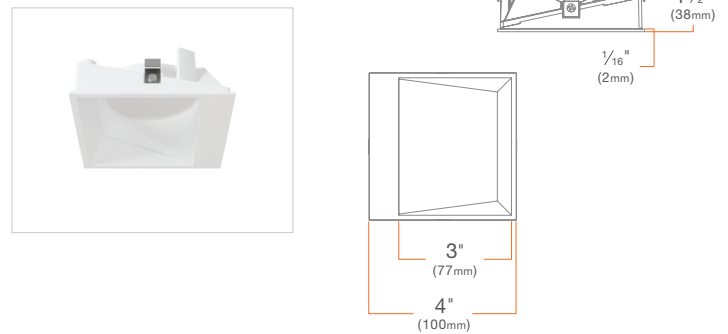
Beveled Pinhole Flangeless Trim Insert

M4TSBWHFL



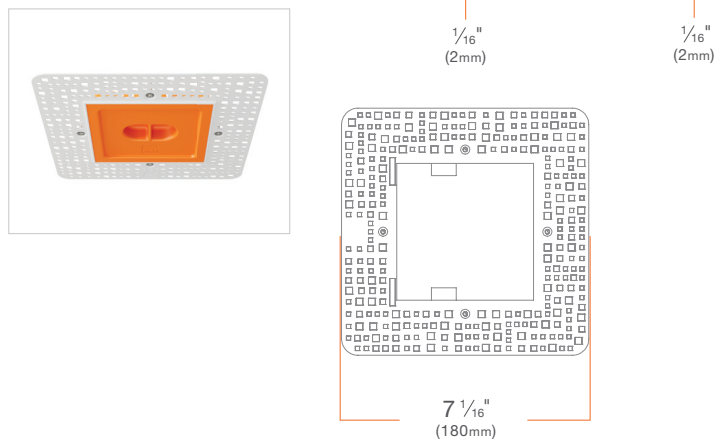
Wall Wash Flangeless Trim Insert

M4TSWWHFL



Flangeless Mud Plate

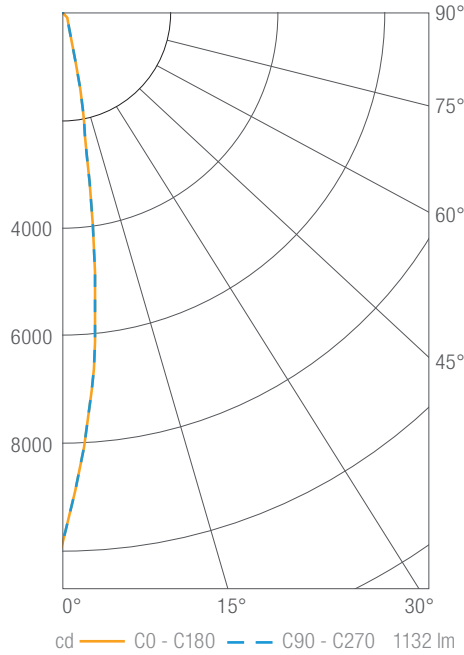
M4XSMUD



PHOTOMETRY

DRD2 1000 lm, 3000K, Narrow Spot

DRD2M10930NS



Luminous Intensity

Gamma	C 0°
0°	9823
5°	6600
10°	2335
15°	734
20°	357
25°	244
30°	195
35°	159
40°	116
45°	85
50°	61
55°	42
60°	28
65°	16
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	906	80
0-40	1004	89
0-60	1110	98
0-90	1131	100
0-180	1132	100

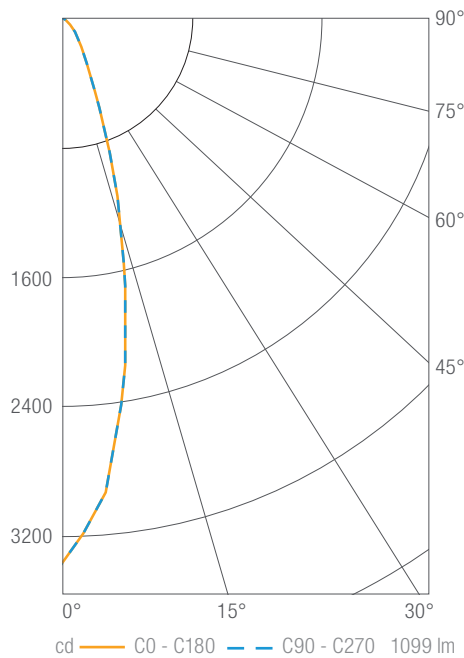
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	1091	0.7'
6'	273	1.5'
9'	121	2.2'
12'	68	2.9'

Beam Angle: 14°

DRD2 1000 lm, 3000K, Spot

DRD2M10930SP



Luminous Intensity

Gamma	C 0°
0°	3366
5°	2967
10°	2203
15°	1391
20°	775
25°	419
30°	248
35°	167
40°	119
45°	87
50°	62
55°	43
60°	26
65°	15
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	862	78
0-40	971	88
0-60	1078	98
0-90	1098	100
0-180	1099	100

Illuminance Chart

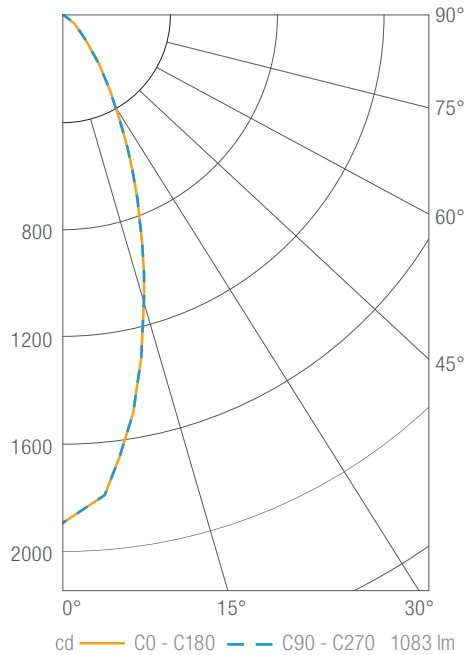
Distance from LED	Foot Candles	Diameter
3'	374	1.4'
6'	93	2.8'
9'	42	4.2'
12'	23	5.6'

Beam Angle: 26°

PHOTOMETRY

DRD2 1000 lm, 3000K, Flood

DRD2M10930FL



Luminous Intensity

Gamma	C 0°
0°	1890
5°	1792
10°	1503
15°	1161
20°	849
25°	589
30°	391
35°	256
40°	162
45°	107
50°	74
55°	51
60°	30
65°	18
70°	8
75°	5
80°	3
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	760	70
0-40	925	85
0-60	1058	98
0-90	1081	100
0-180	1083	100

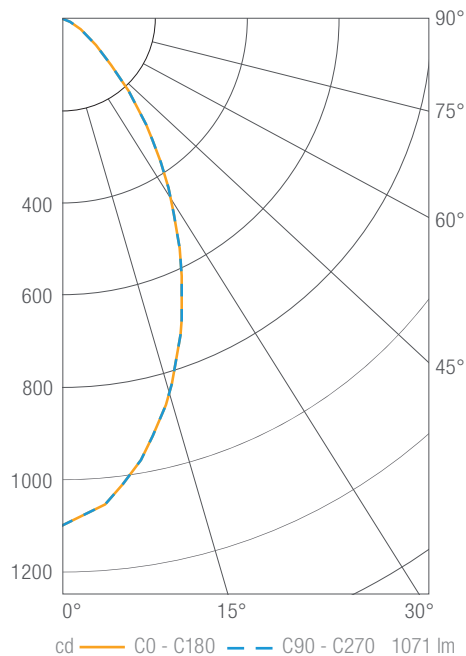
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	210	2.0'
6'	52	4.0'
9'	23	6.0'
12'	13	8.0'

Beam Angle: 37°

DRD2 1000 lm, 3000K, Wide Flood

DRD2M10930WF



Luminous Intensity

Gamma	C 0°
0°	1100
5°	1058
10°	973
15°	866
20°	743
25°	609
30°	478
35°	361
40°	252
45°	161
50°	102
55°	68
60°	41
65°	24
70°	11
75°	6
80°	4
85°	2
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	620	58
0-40	845	79
0-60	1037	97
0-90	1069	100
0-180	1071	100

Illuminance Chart

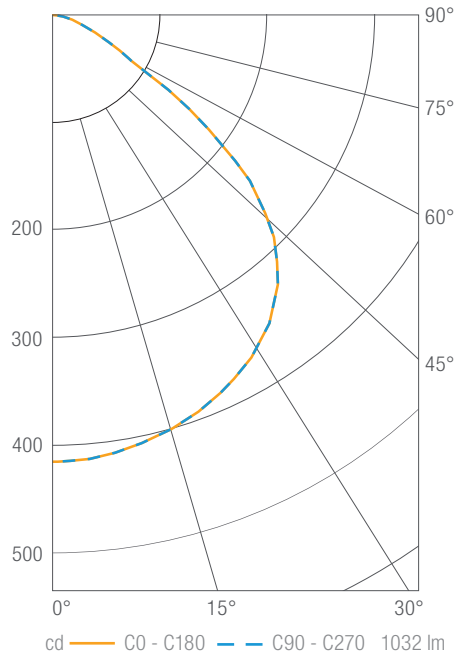
Distance from LED	Foot Candles	Diameter
3'	122	3.1'
6'	31	6.2'
9'	14	9.3'
12'	8	12.3'

Beam Angle: 55°

PHOTOMETRY

DRD2 1000 lm, 3000K, General Ambient

DRD2M10930GA



Luminous Intensity

Gamma	C 0°
0°	416
5°	415
10°	410
15°	403
20°	394
25°	382
30°	369
35°	351
40°	327
45°	291
50°	240
55°	162
60°	84
65°	54
70°	33
75°	21
80°	12
85°	6
90°	1

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	333	32
0-40	557	54
0-60	942	91
0-90	1024	99
0-180	1032	100

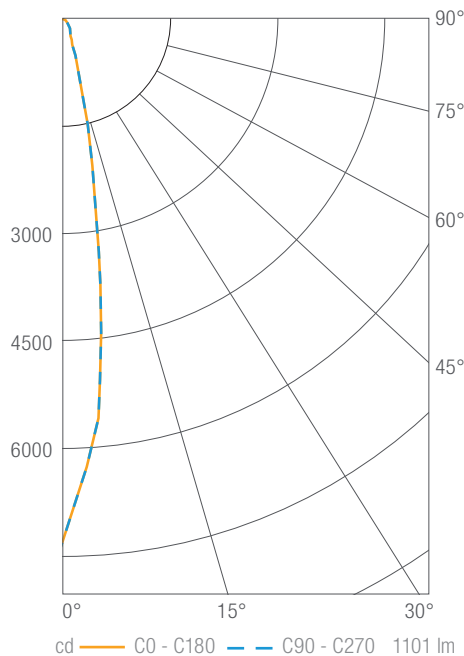
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	46	7.8'
6'	12	15.5'
9'	5	23.3'
12'	3	31.1'

Beam Angle: 100°

DRD2 1000 lm, 3000K, Soft Focus

DRD2M10930SF



Luminous Intensity

Gamma	C 0°
0°	7280
5°	5603
10°	2489
15°	875
20°	381
25°	247
30°	194
35°	161
40°	122
45°	90
50°	64
55°	45
60°	28
65°	16
70°	7
75°	4
80°	2
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	868	79
0-40	968	88
0-60	1078	98
0-90	1100	100
0-180	1101	100

Illuminance Chart

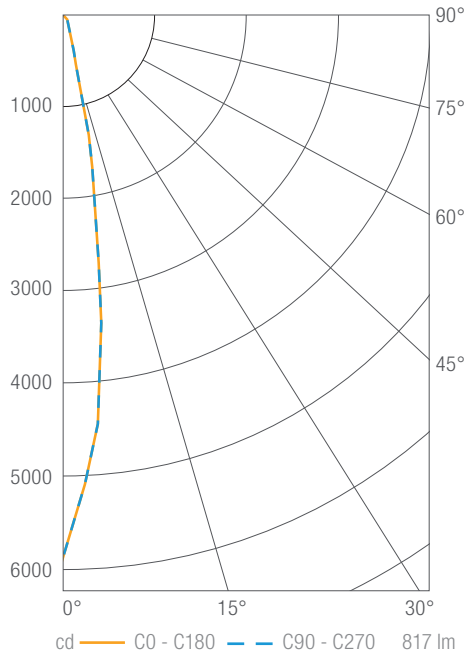
Distance from LED	Foot Candles	Diameter
3'	809	0.9'
6'	202	1.7'
9'	90	2.6'
12'	51	3.4'

Beam Angle: 16°

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

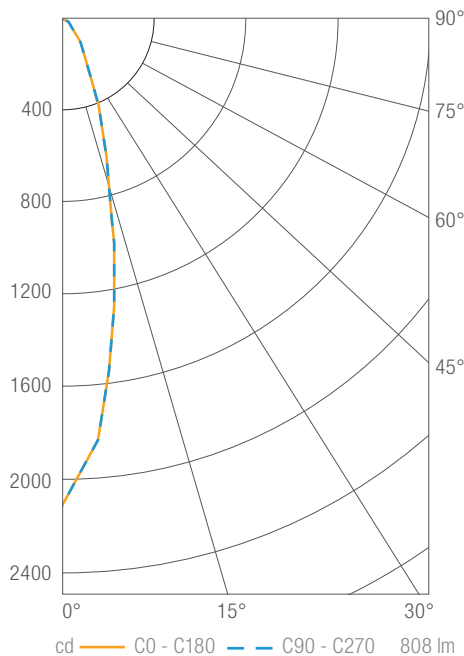
Illuminance Chart

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

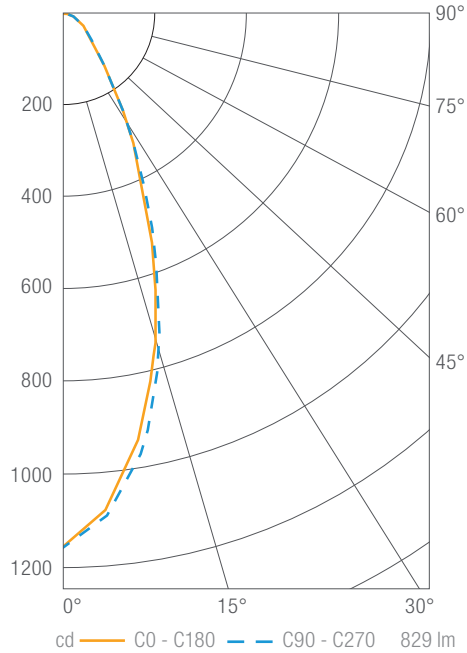
Distance from LED	Foot Candles	Diameter
3'	234	1.3'
6'	58	2.6'
9'	26	3.9'
12'	15	5.2'

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°