

Higher-Lumen Fixed Downlight

New Construction, Remodel
4" Aperture, 0-10V



- Radically simplifies configuration in the field
- Efficiently produces up to 3000 lm of superior lighting at 90+ CRI
- Wide range of interoperable lighting options including lumen, color temperature, and beam angle
- Integrated Twist & Lock driver for easy maintenance
- Connect the power and driver with a simple snap, no tools required

Application New Construction, Remodel		Aperture 4" Commercial	
Delivered Lumens 1500 lm (20W), 2000 lm (28W), 2500 lm (37W), 3000 lm (40W)		Color Quality 90+ CRI, 2-step SDCM	
Color Temperature 2700K 3000K 3500K 4000K		Optics Narrow Spot (15°) Spot (25°) Flood (40°) Wide Flood (60°)	
Input Voltage 120/277V		Dimming 0-10V 1%	
Trims Standard Round Beveled, Hyperbolic, Pinhole, Low Profile, Wall Wash, Decorative, Flangeless		Trim Finish White, Black, Clear Diffuse, Warm Diffuse, Black w/ White Flange, Clear Diffuse w/ White Flange, Warm Diffuse w/ White Flange, Custom	
Standards		Guarantee 50,000 hrs 5 years	Additional Options Lutron Hi-lume® Dimming, Emergency Lighting, Adjustable Lighting
Ratings UL Listed for Wet Location			



PRODUCT BUILDER

HOUSING use when on/off (non-dim) or 0-10V dimming is desired

PRODUCT CODE		APPLICATION		SHAPE		APERTURE		LUMENS		DRIVER		OPTION	
DCDH	DCD Series Housing	N	New Construction	R	Round	4	4" Aperture	[Blank]	All Options	[Blank]	Integrated, 0-10V (100% - 1%)	[Blank]	None
		R	Remodel										

MODULE

PRODUCT CODE		LUMENS		CRI		CCT		OPTICS	
DCD3M	DCD3 LED Module	15	1500 lm	9	90+ CRI	27	2700K	NS	Narrow Spot (15°)
		20	2000 lm			30	3000K	SP	Spot (25°)
		25	2500 lm			35	3500K	FL	Flood (40°)
		30	3000 lm			40	4000K	WF	Wide Flood (60°)

TRIM

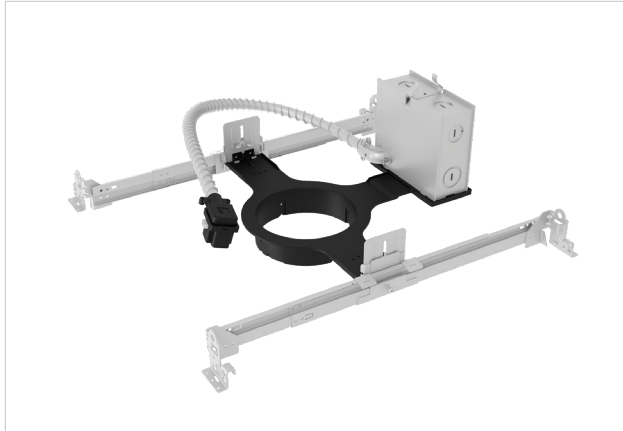
PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH		OPTION	
DCD3T	DCD3 Trim	R	Round	4	4" Aperture	S	Standard Round Beveled	WH	White	[Blank]	None
						H	Hyperbolic ¹	BK	Black	DOF	Decorative: Open, Frosted ^{1,4}
						P	Pinhole ¹	CD	Clear Diffuse	FL	Flangeless ^{1,5}
						L	Low Profile ^{1,2}	WD	Warm Diffuse		
						W	Wall Wash ³	BW	Black w/ White Flange		
								CW	Clear Diffuse w/ White Flange		
								WW	Warm Diffuse w/ White Flange		
								CC	Custom Color		

DCDHX-MUD-FL Flangeless Mud Plate (Required with Flangeless Trim)¹ Only available in White or Custom Color finish² Not available in Flangeless³ Requires Wide Flood optics⁴ Only available in Standard style⁵ Requires DCDHX-MUD-FL Mud Plate

ADDITIONAL ACCESSORIES

DCD3X-NS	Narrow Spot Lens (15°)	DCD3X-FL	Flood Lens (40°)
DCD3X-SP	Spot Lens (25°)	DCD3X-WF	Wide Flood Lens (60°)

HOUSING

**DCD Frame**

New Construction, Remodel

DCDH

SUMMARY

JUNCTION BOX: Galvanized steel. Equipped with (4) 1/2" and (2) 3/4" knockouts with pryout slots to allow straight conduit runs. Approved for 8 (four-in, four-out) #12 AWG 70 through wire conductors

MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1" (New Construction). 4 tempered steel clamps secure housing to existing ceiling (Remodel).

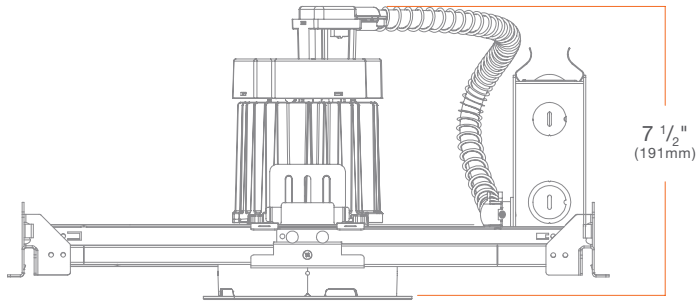
CEILING: 1/2" up to 1 1/4"

CUTOUT: 4 3/4" (121mm) (New Construction), 5" (127mm) (Remodel) circular opening.

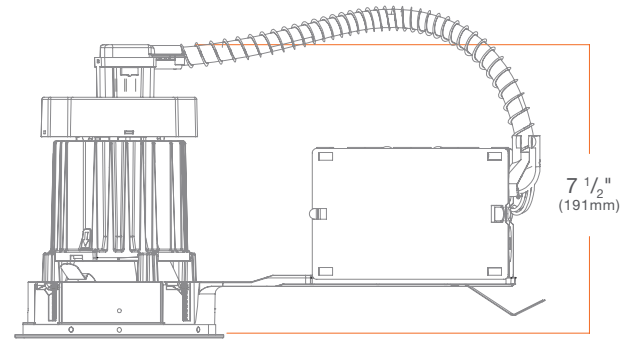
WARRANTY: 5 year limited warranty

HOUSING

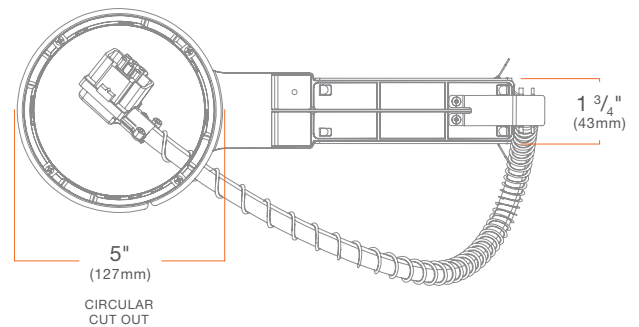
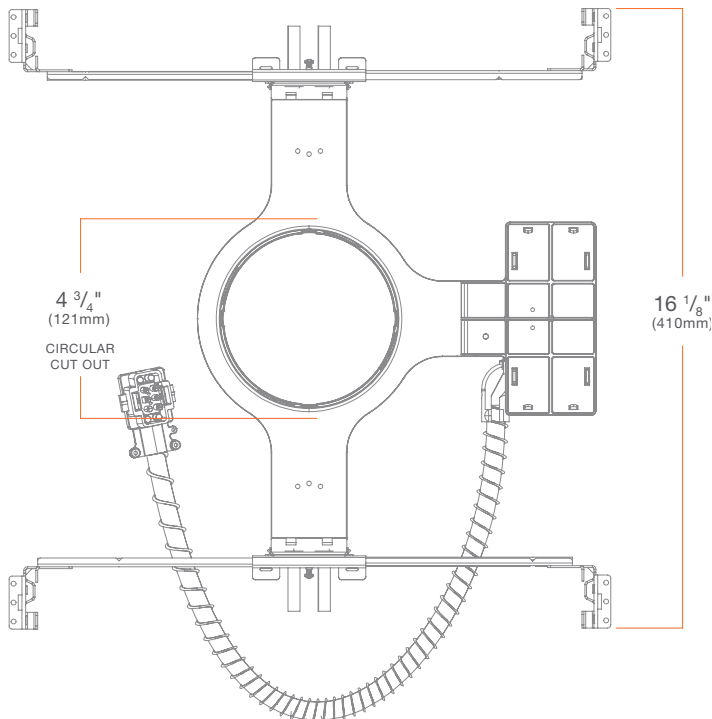
New Construction Housing

DCDHNR4


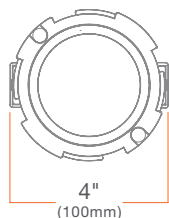
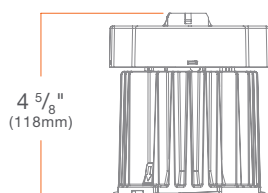
Remodel Housing

DCDHRR4


NOTE: Total height varies depending on trim. Standard Round Beveled Trim shown.
Minimum height (Low Profile Trim): 5 7/8" (149mm). Maximum height (Wall Wash Trim): 9 1/4" (235mm).



MODULE

**DCD3**

Higher-Lumen LED Module

DCD3M

SUMMARY

LED: Cree® LED**DELIVERED LUMENS (w Trim):** 1500 lm (20W), 2000 lm (28W), 2500 lm (37W), 3000 lm (40W)**EFFICACY:** 86 lm/W, 79 lm/W, 72 lm/W, 82 lm/W**COLOR QUALITY:** 90+ CRI, 2-step SDCM**CCT:** 2700K, 3000K, 3500K, 4000K**OPTICS:** Narrow Spot (15°), Spot (25°), Flood (40°), Wide Flood (60°)**CONNECTOR:** Proprietary 6-pin, Molex AC connector**DIMMING:** Down to less than 1% for 0-10V**INPUT VOLTAGE:** 120/277V, 50/60Hz**MAX INPUT CURRENT (120V):** 0.35 amps**MAX INPUT CURRENT (277V):** 0.15 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*Refer to ENERGY STAR Certified List for details

TRIM


DCD3 Trims

Recessed LED Downlight Trims

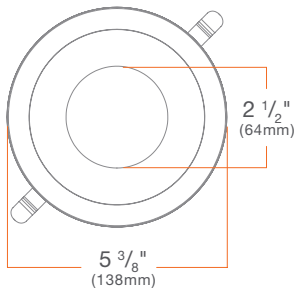
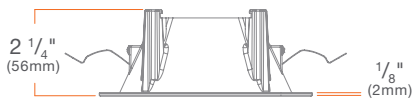
DCD3T

SUMMARY

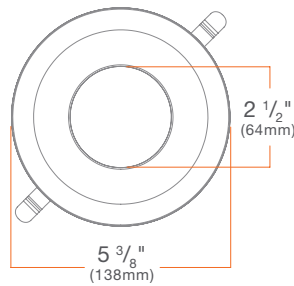
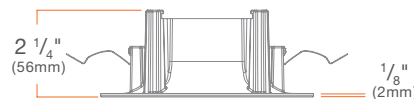
CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock (flanged trims only)

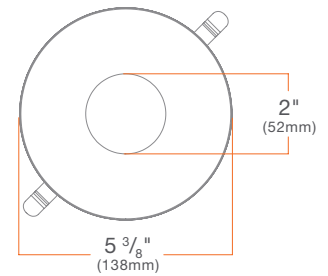
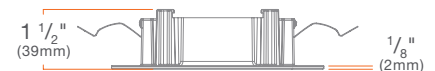
Standard Round Beveled Trim

DCD3TR4SWH


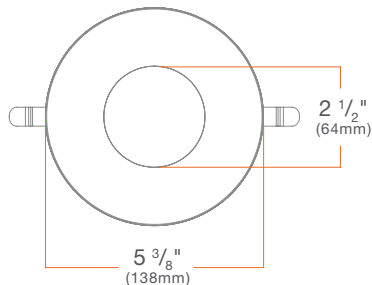
Hyperbolic Trim

DCD3TR4HWH


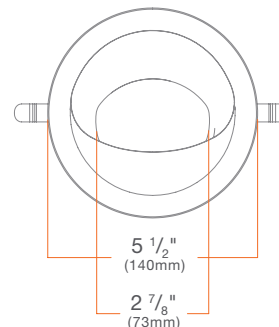
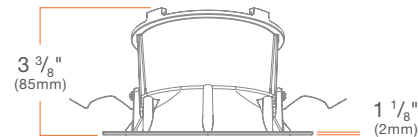
Pinhole Trim

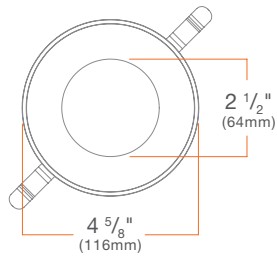
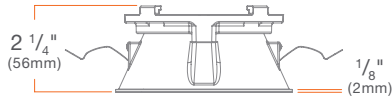
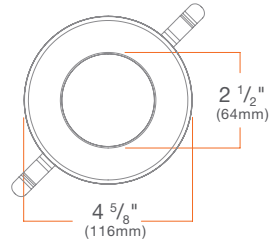
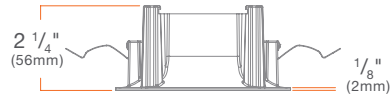
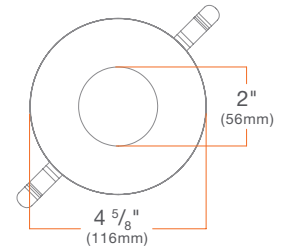
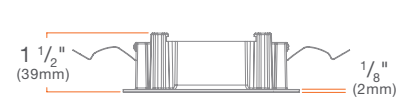
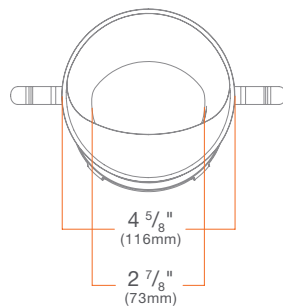
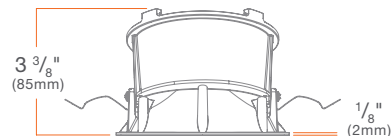
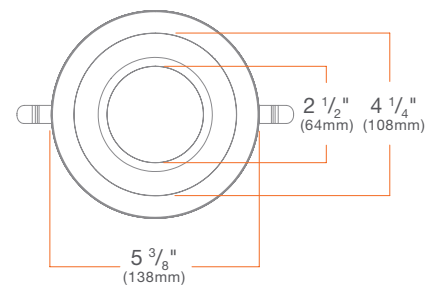
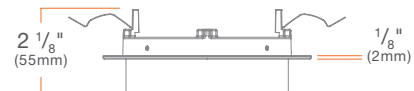
DCD3TR4PWH


Low Profile Trim

DCD3TR4LWH


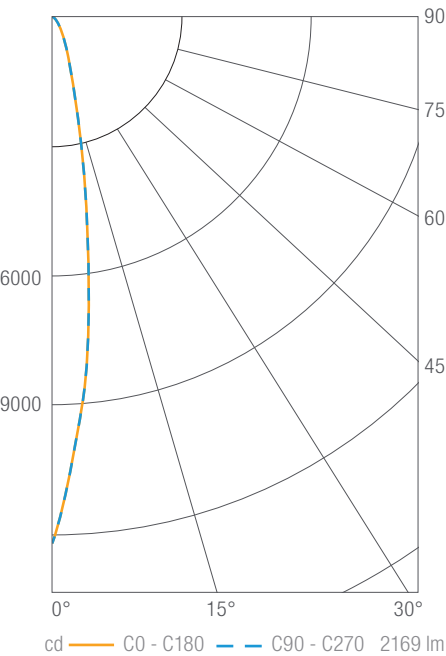
Wall Wash Trim

DCD3TR4WWH


TRIM
**Round Flangeless
Trim Insert**
DCD3TR4SWHFL

**Hyperbolic Flangeless
Trim Insert**
DCD3TR4HWHFL

**Pinhole Flangeless
Trim Insert**
DCD3TR4PWHFL

**Wall Wash Flangeless
Trim Insert**
DCD3TR4WWHFL

**Decorative
Open Trim**
DCD3TR4SWHDOF


PHOTOMETRY

DCD3 2000 lm, 3500K, Narrow Spot DCD3M20935NS / Low Profile Trim White DCD3TR4LWH



Luminous Intensity

Gamma	C 0°
0°	11621
5°	7961
10°	4148
15°	2145
20°	1136
25°	714
30°	440
35°	293
40°	212
45°	161
50°	125
55°	88
60°	74
65°	51
70°	39
75°	18
80°	8
85°	2
90°	0

Values in candela

Zonal Lumen Summary

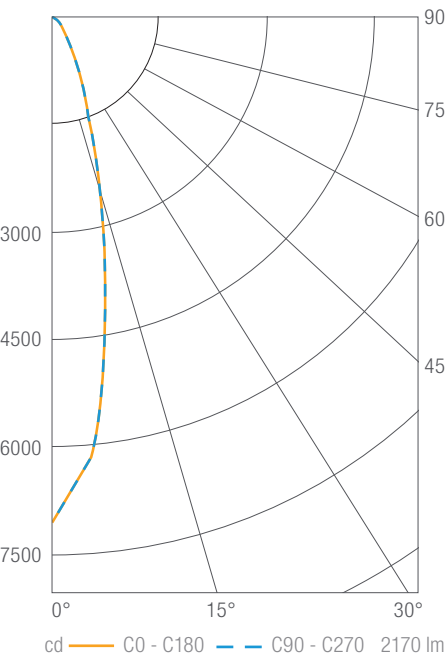
Zone	Lumens	Luminaire %
0-30	1678	77
0-40	1875	86
0-60	2085	96
0-90	2169	100
0-180	2169	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	1360	0.7'
6'	340	1.5'
9'	151	2.2'
12'	85	2.9'

Beam Angle: 15°

DCD3 2000 lm, 3500K, Spot DCD3M20935SP / Low Profile Trim White DCD3TR4LWH



Luminous Intensity

Gamma	C 0°
0°	6824
5°	5842
10°	4001
15°	2339
20°	1302
25°	785
30°	496
35°	340
40°	238
45°	174
50°	128
55°	100
60°	77
65°	60
70°	40
75°	23
80°	8
85°	3
90°	0

Values in candela

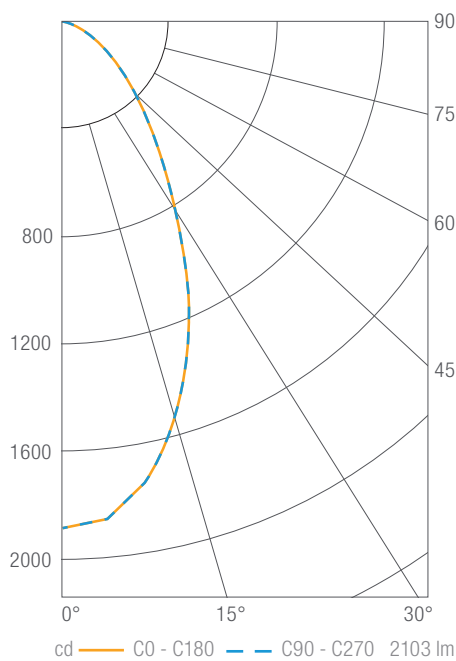
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	1606	74
0-40	1837	85
0-60	2078	96
0-90	2170	100
0-180	2170	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	783	1.2'
6'	196	2.3'
9'	87	3.5'
12'	49	4.7'

Beam Angle: 24°

PHOTOMETRY
DCD3 2000 lm, 3500K, Flood DCD3M20935FL / Low Profile Trim White DCD3TR4LWH

Luminous Intensity

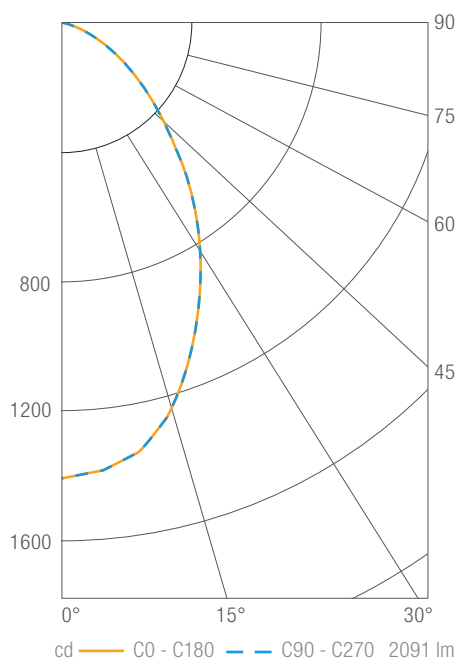
Gamma	C 0°
0°	1879
5°	1802
10°	1664
15°	1462
20°	1230
25°	1001
30°	779
35°	606
40°	464
45°	344
50°	248
55°	189
60°	130
65°	96
70°	66
75°	38
80°	21
85°	3
90°	0

Values in candela
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	1067	51
0-40	1466	70
0-60	1933	92
0-90	2103	100
0-180	2103	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	209	2.9'
6'	52	5.9'
9'	23	8.8'
12'	13	11.7'

Beam Angle: 54°
DCD3 2000 lm, 3500K, Wide Flood DCD3M20935WF / Low Profile Trim White DCD3TR4LWH

Luminous Intensity

Gamma	C 0°
0°	1426
5°	1379
10°	1304
15°	1192
20°	1053
25°	919
30°	796
35°	665
40°	537
45°	417
50°	314
55°	231
60°	163
65°	116
70°	79
75°	50
80°	26
85°	6
90°	2

Values in candela
Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	911	44
0-40	1340	64
0-60	1898	91
0-90	2092	100
0-180	2092	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	157	0.3'
6'	39	8.6'
9'	17	12.9'
12'	10	17.2'

Beam Angle: 68°



PHOTOMETRY

Lumen Scaling

DCD3M15 (1500 lm)	DCD3M20 (2000 lm)	DCD3M25 (2500 lm)	DCD3M30 (3000 lm)
0.75	1.00	1.25	1.50

CCT Scaling

DCD3M20927 (2700K)	DCD3M20930 (3000K)	DCD3M20935 (3500K)	DCD3M20940 (4000K)
0.91	0.96	1.00	1.03

DIMMER COMPATIBILITY

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

Brand	Series	Model Number	Max Load
Cooper	Decorator	DAL06P, DLC03P	20
	Slide	SLC03P	20
Leviton	Sure Slide	6621, 6631	10
Lutron	Diva CL	DVCL-153P	10
	Diva CL	DVCL-253P	15
	Grafik	GTJ-150-WH	10
	Maestro	MRF2-6ND	10
	Maestro CL	MACL-153	10
	Maestro CL	MA-PRO-WH	15
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	10
	Radio RA	RRD-6NA, RRD-6ND	10
	Skylark	SELV-300P	20