

DCD2

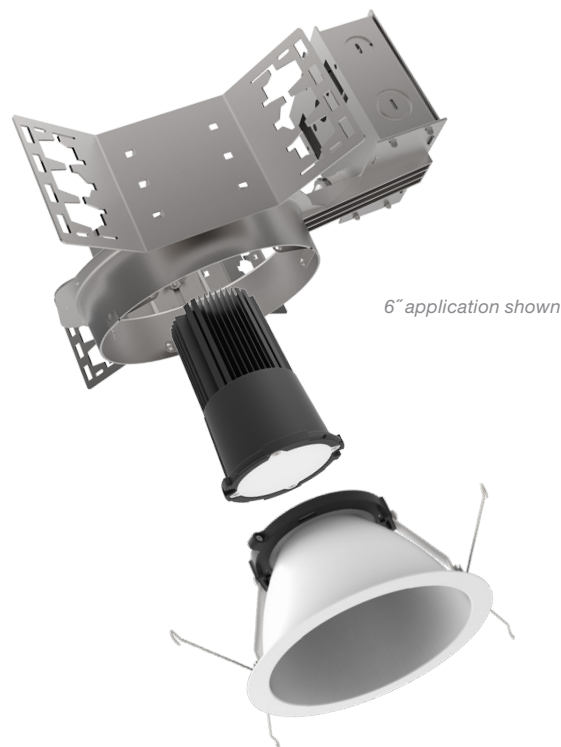
Commercial Recessed LED Downlight

Classic New Construction

4", 6", 8" Aperture

Project:	Type:
Product Code:	Date:

Spec Sheet V-04.15.18



- Commercial-grade downlight that complements high ceiling projects
- Up to 4000 lumens of architectural-grade light through 30°, 45°, and 60° beam options
- All DCDH new construction housings are UL Listed approved for use with DMF's advanced LED modules and available in 4", 6" or 8" apertures

Application Commercial New Construction		Aperture 4", 6", 8"
Delivered Lumens 1500 lm (23.7W), 2000 lm (31.0W), 3000 lm (43.8W), 4000 lm (48.3W)		Color Quality 90+ CRI, 2-step SDCM
Color Temperature  2700K  3000K  3500K  4000K		Optics  Narrow Flood (30°)  Flood (45°)  Wide Flood (60°)
Input Voltage 120/277V	Dimming 0-10V 1% Lutron Hi-lume® 1%	Emergency Lighting Optional emergency LED Driver for lighting up to 90 minutes in event of power failure
Trims Commercial		Trim Finish White, Alzak®, Custom
Standards  		Ratings  Wet location available
		Guarantee 50,000 hrs 5 years



PRODUCT BUILDER

HOUSING

PRODUCT CODE		APPLICATION		APERTURE		INPUT		DRIVER		OPTION	
DCDH	Housing	N	New Construction	4	4" Aperture	1	120V	15P	0-10V, 1500 lm	[Blank]	None
				6	6" Aperture	2	277V	20P	0-10V, 2000 lm	EM	Emergency Driver
				8	8" Aperture			30P	0-10V, 3000 lm		
								40P	0-10V, 4000 lm		
								15C	Lutron LDE1 ¹ , 1500 lm		
								20C	Lutron LDE1 ¹ , 2000 lm		
								30C	Lutron LDE1 ¹ , 3000 lm		
								15L	Lutron LTEA2W ² , 1500 lm		
								20L	Lutron LTEA2W ² , 2000 lm		
								30L	Lutron L3DA3W ² , 3000 lm		

MOUNTING

OPTION			
CC	Bar Hanger	CCA-16	Adjustable C-Channel 11" - 18"
LBH	Flat Bar Hanger 27"	CCA-24	Adjustable C-Channel 17" - 26"
LBH-24	Flat Bar Hanger 24"		

LED MODULE

PRODUCT CODE		LUMENS		CRI		CCT		OPTIC	
DCD2M	Module	15	1500 lm	9	90+ CRI	27	2700K	NF	Narrow Flood
		20	2000 lm			30	3000K	FL	Flood
		30	3000 lm			35	3500K	WF	Wide Flood
		40	4000 lm ³			40	4000K		

TRIM

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH	
DCD2T	Trim	R	Round	4	4" Aperture	S	Smooth	WH	White
				6	6" Aperture			AZ	Low Iridescent Reflector, White Flange
				8	8" Aperture			CC	Custom Color

¹ Lutron LDE1 Dimming refers to Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black™² Lutron LTEA2W Dimming refers to Lutron Hi-lume 1% 3-wire LED driver, 120V only³ Not compatible with Lutron Hi-Lume 1%

HOUSING



Classic Commercial Housing

4", 6", 8" New Construction

DCDHN

SUMMARY

MOUNTING FRAME: Die-cast aluminum.

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: Butterfly brackets adjust 4" vertically and accept 1/2" EMT, linear flat bars and "C" channels

CEILING: 1/2" up to 1"

CUTOUT: 5 1/8" (4" frame-in kit), 7" (6" frame-in kit), 8 9/16" (8" frame-in kit)

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

MAX INPUT CURRENT (120V): 0.20 amps, 0.26 amps, 0.37 amps, 0.40 amps

MAX INPUT CURRENT (120V): 0.10 amps, 0.12 amps, 0.16 amps, 0.17 amps

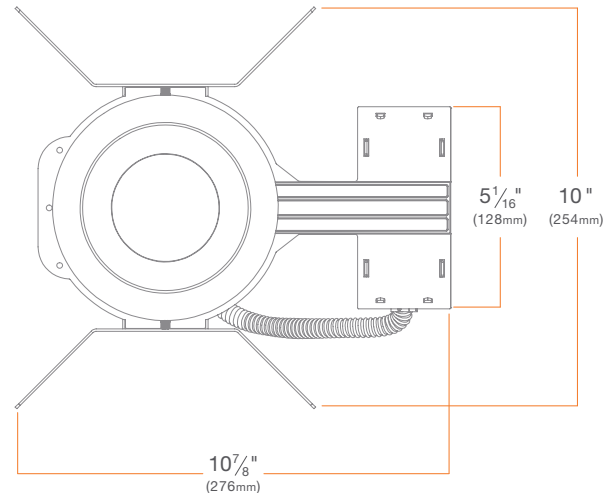
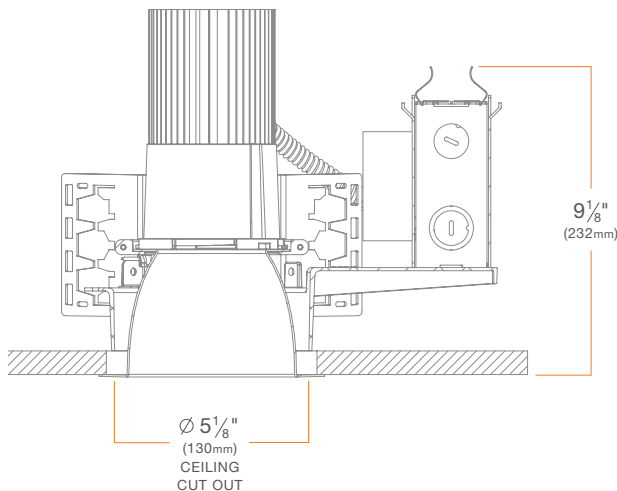
POWER FACTOR: Greater than 0.9

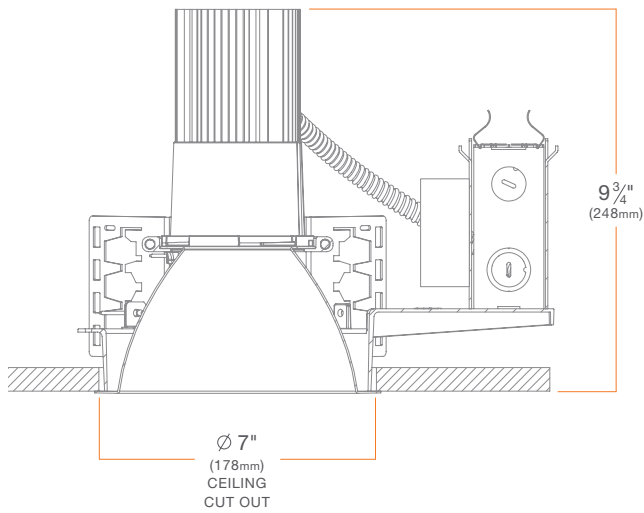
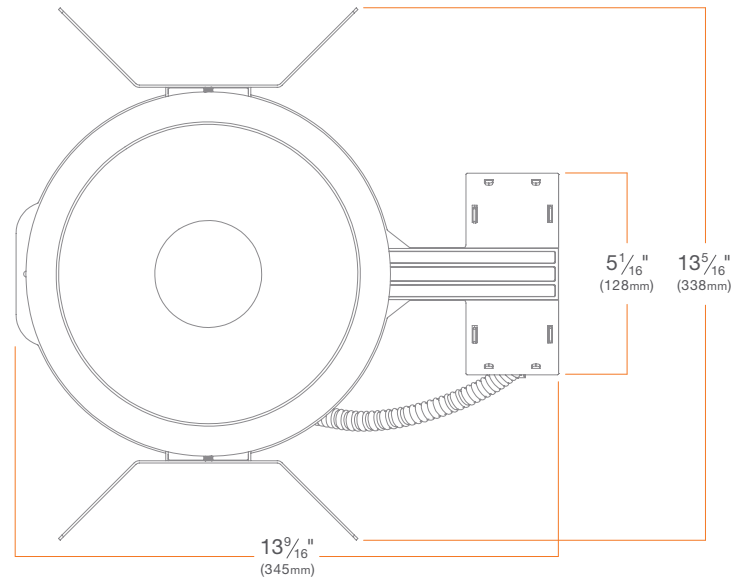
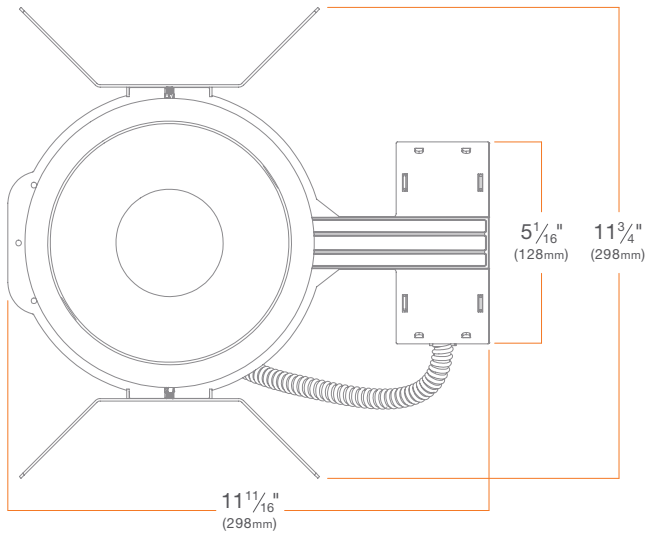
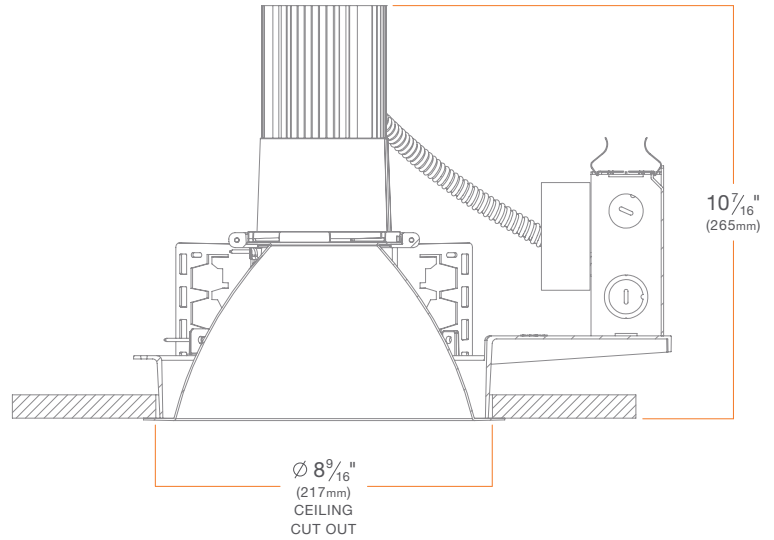
TOTAL HARMONIC DISTORTION: Less than 20%

LISTINGS: Non-IC rated

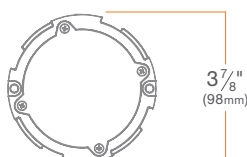
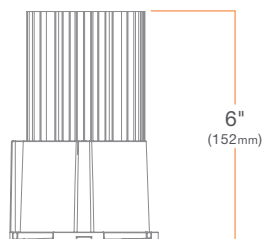
WARRANTY: 5 year limited warranty

4" Commercial New Construction

DCDHN4


HOUSING
6" Commercial New Construction
DCDHN6

8" Commercial New Construction
DCDHN8


MODULE



DCD2

Commercial LED Module

DCD2M

SUMMARY

LED: Cree® LED

DELIVERED LUMENS: 1500 lm (23.7W), 2000 lm (31.0W), 3000 lm (43.8W), 4000 lm (48.3.8W)

EFFICACY: 63 lm/W, 65 lm/W, 68 lm/W, 66 lm/W

COLOR QUALITY: 90+ CRI, 2-step SDCM

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

OPTICS: Narrow Flood (30°), Flood (45°), Wide Flood (60°)

HEAT SINK: Forged and extruded heat sink with pressed copper heat pipes and Dual Phase Cooling™ technology

CONNECTOR: PowerPlug® Luminaire Disconnect Model 182

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

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

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

PHOTOMETRIC TESTING: Tested in accordance to IESNA LM-79-2008

LISTINGS: ENERGY STAR® qualified, California Title 24 2016 compliant, UL Listed for Wet location, cULus Listed

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty

TRIM



Classic Commercial Trims

4", 6", 8" Aperture

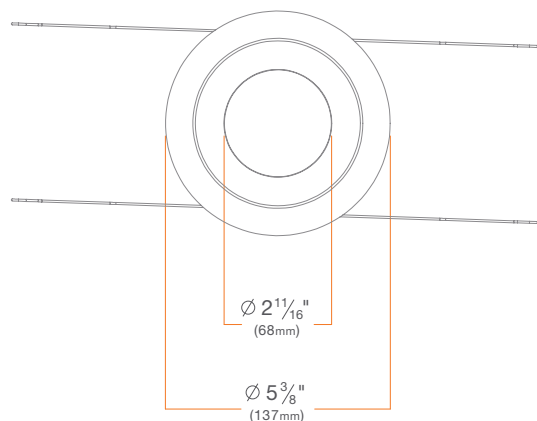
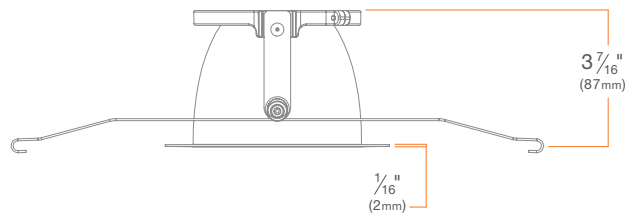
DCD2T

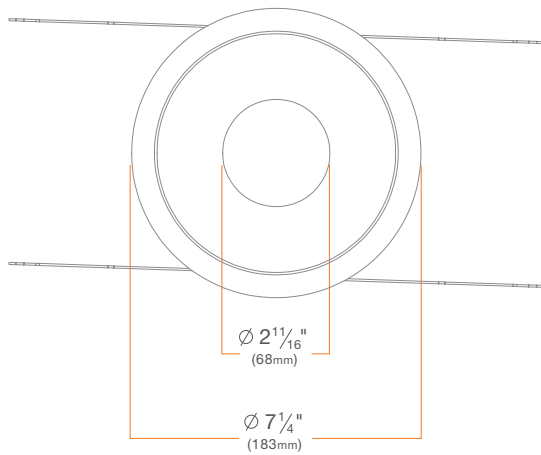
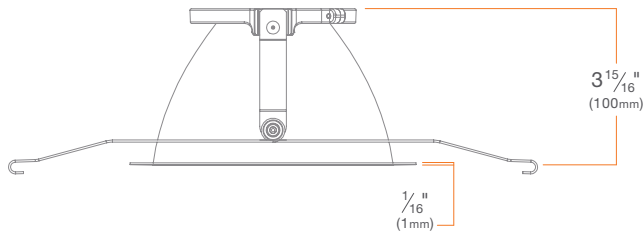
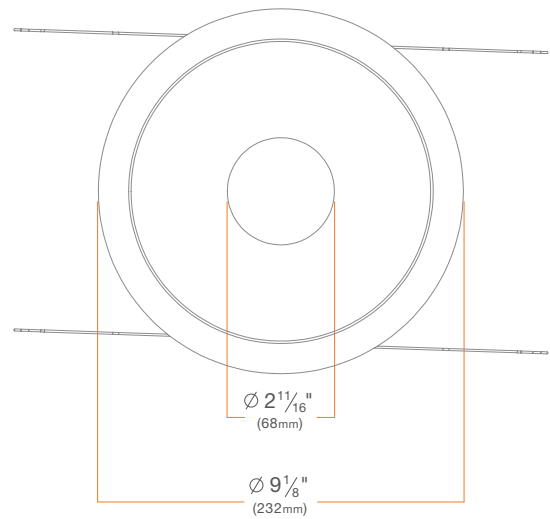
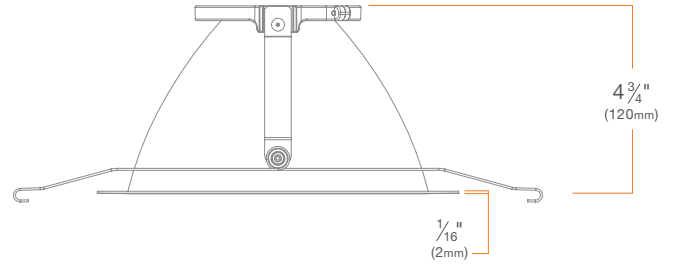
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

4" Commercial Trim

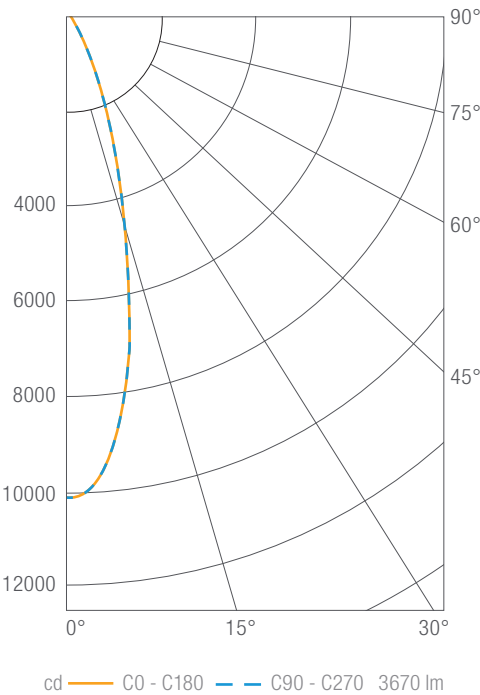
DCD2TR4


TRIM
6" Commercial Trim
DCD2TR6

8" Commercial Trim
DCD2TR8




PHOTOMETRY

DCD2 4000 lm, 3500K, Narrow Flood DCD2M40835NF
6" Trim Smooth, White DCD2TR6SWH



Luminous Intensity	
Gamma	C 0°
0°	10183
5°	9616
10°	7424
15°	4871
20°	3266
25°	2193
30°	999
35°	251
40°	128
45°	118
50°	97
55°	79
60°	70
65°	52
70°	48
75°	0
80°	0
85°	0
90°	0

Values in candela

Zonal Lumen Summary

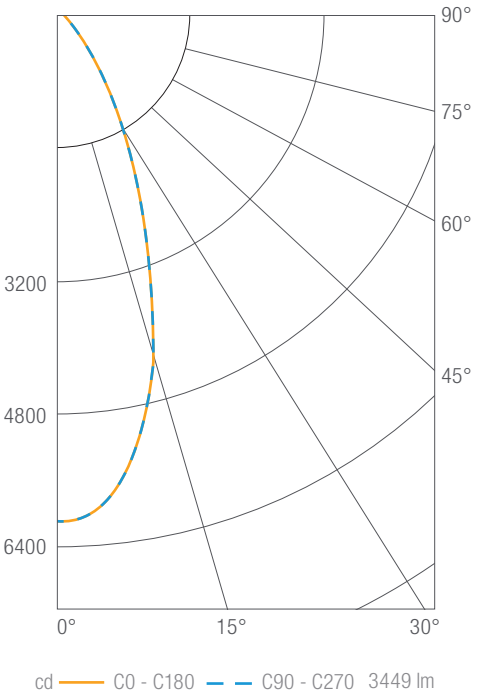
Zone	Lumens	Luminaire %
0-30	3196	87
0-40	3442	94
0-60	3603	98
0-90	3670	100
0-180	3670	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
6.0'	283	3.1'
9.0'	126	4.7'
12.0'	71	6.2'
14.0'	52	7.2'

Beam Angle: 29°

DCD2 4000 lm, 3500K, Flood DCD2M40835FL
6" Trim Smooth, White DCD2TR6SWH



Luminous Intensity	
Gamma	C 0°
0°	6032
5°	5822
10°	5224
15°	4299
20°	3379
25°	2443
30°	1274
35°	473
40°	207
45°	142
50°	109
55°	96
60°	78
65°	64
70°	55
75°	0
80°	0
85°	0
90°	0

Values in candela

Zonal Lumen Summary

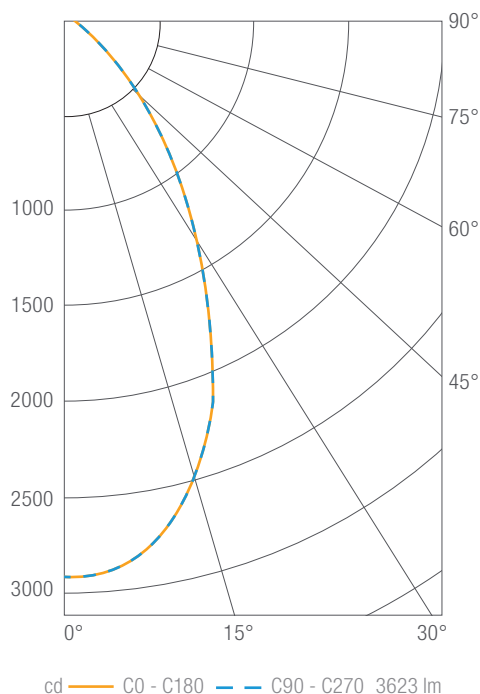
Zone	Lumens	Luminaire %
0-30	2802	81
0-40	3170	92
0-60	3371	98
0-90	3449	100
0-180	3449	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
6.0'	168	4.8'
9.0'	74	7.2'
12.0'	42	9.7'
14.0'	31	11.3'

Beam Angle: 44°

PHOTOMETRY

DCD2 4000 lm, 3500K, Wide Flood **DCD2M40835WF**
6" Trim Smooth, White **DCD2TR6SWH**


Luminous Intensity

Gamma	C 0°
0°	3402
5°	3329
10°	3168
15°	2922
20°	2615
25°	2240
30°	1755
35°	1200
40°	738
45°	428
50°	272
55°	218
60°	179
65°	148
70°	108
75°	0
80°	0
85°	0
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	2141	59
0-40	2897	80
0-60	3451	95
0-90	3623	100
0-180	3623	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
6.0'	95	7.0'
9.0'	42	10.6'
12.0'	24	14.1'
14.0'	17	16.4'

Beam Angle: 60°

Lumen Scaling

DCD2M15 (1500 lm)	DCD2M20 (2000 lm)	DCD2M30 (3000 lm)	DCD2M40 (4000 lm)
0.47	0.61	0.80	1.00

CCT Scaling

DCD2M40827 (2700K)	DCD2M40830 (3000K)	DCD2M40835 (3500K)	DCD2M40840 (4000K)
0.93	0.93	1.00	1.00

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

Brand	Series	Model Number	Max Load DCD2M15	Max Load DCD2M20	Max Load DCD2M30	Max Load DCD2M40
Legrand	Titan	CD4FB	98	74	52	38
Leviton	IllumaTech	IP710-DLZ	35	37	26	19
Lithonia	Synergy	ISD BC	36	37	26	19
Lutron	Diva	DVTV	54	59	42	30
	Nova	NFTV	57	60	42	30
	Nova	NTSTV-DV	78	59	42	30
	PowPak	RMJ-5T-DV-B	24	24	24	24
Watt Stopper	Micro Decorator Style	DCLV1	98	75	53	39