

DCD1

Commercial Recessed LED Downlight

Classic New Construction

4", 6", 8" Aperture

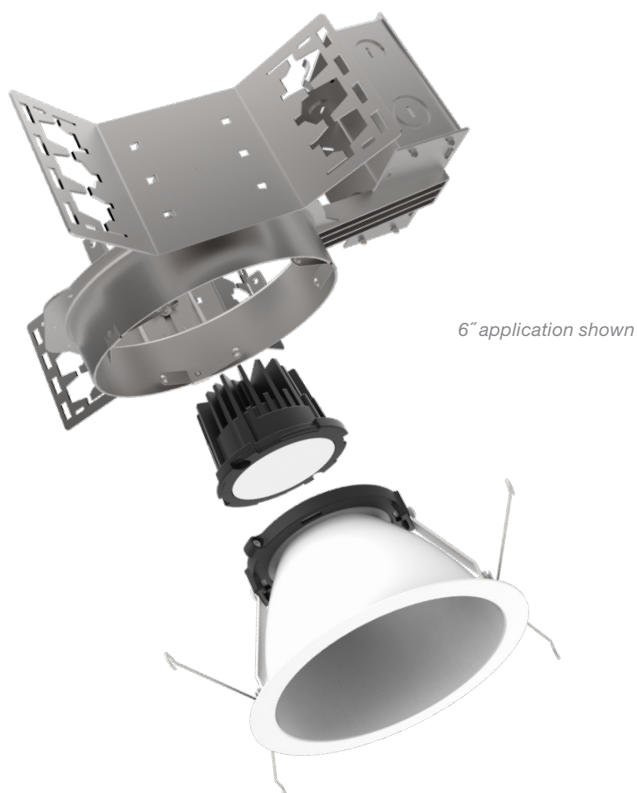
Project:

Type:









Product Code:

Date:

Spec Sheet V-03.15.19



- Powerfully compact downlight designed for higher light and ceiling applications
- Advanced LED delivers up to 2000 lumens of 90+ CRI general downlighting
- 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 (19.5W), 2000 lm (29.0W)		Color Quality 90+ CRI, 2-step SDCM
Color Temperature <div> 2700K  3000K  3500K  4000K</div>		Optics  General
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	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DCDH	Housing	N	New Construction	4	4" Aperture	1	120V	15O	0-10V, 1500 lm	[Blank]	None
				6	6" Aperture	2	277V	20O	0-10V, 2000 lm	EM	Emergency Driver
				8	8" Aperture			15C	Lutron LDE1 ¹ , 1500 lm		
								20C	Lutron LDE1 ¹ , 2000 lm		
								15L	Lutron LTEA2W ² , 1500 lm		
								20L	Lutron LTEA2W ² , 2000 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		DRIVER	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DCD1M	Module	15	1500 lm	9	90+ CRI	27	2700K	A	Alternate
		20	2000 lm			30	3000K		
						35	3500K		
						40	4000K		

TRIM

PRODUCT CODE		SHAPE		APERTURE		STYLE		FINISH	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
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 only

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): 0.26 amps, 0.37 amps

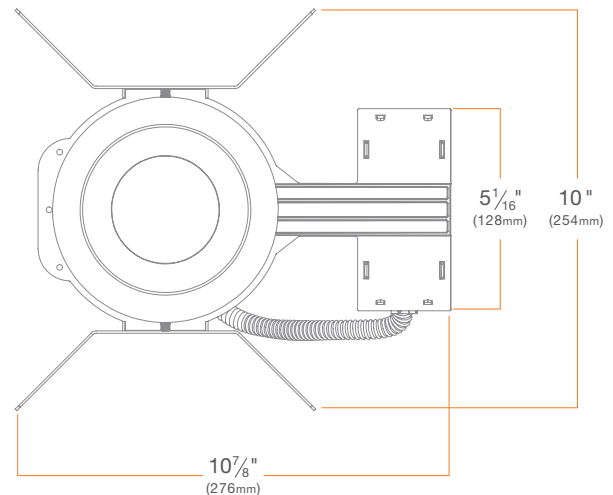
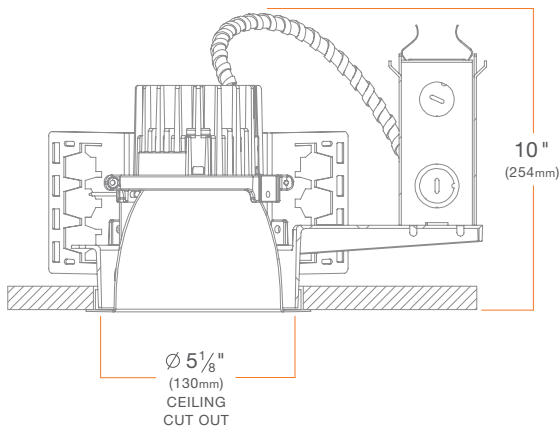
MAX INPUT CURRENT (277V): 0.12 amps, 0.16 amps

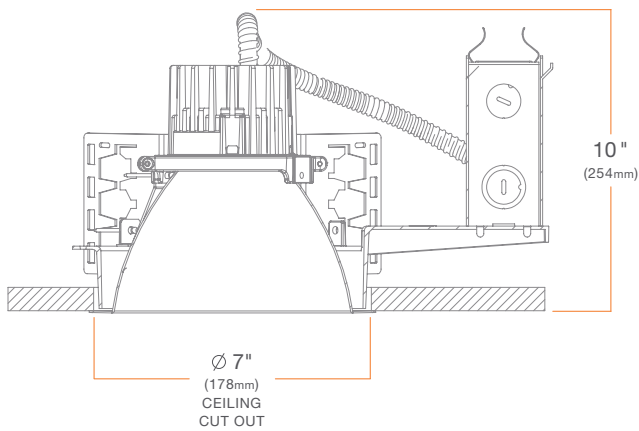
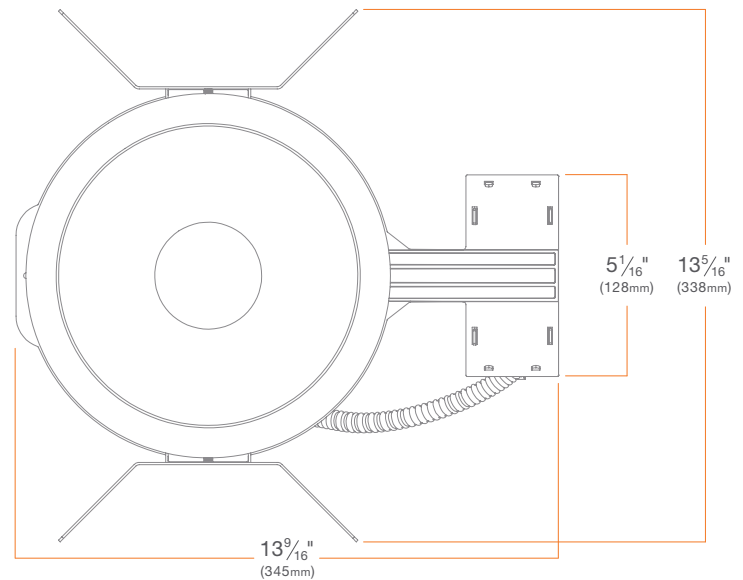
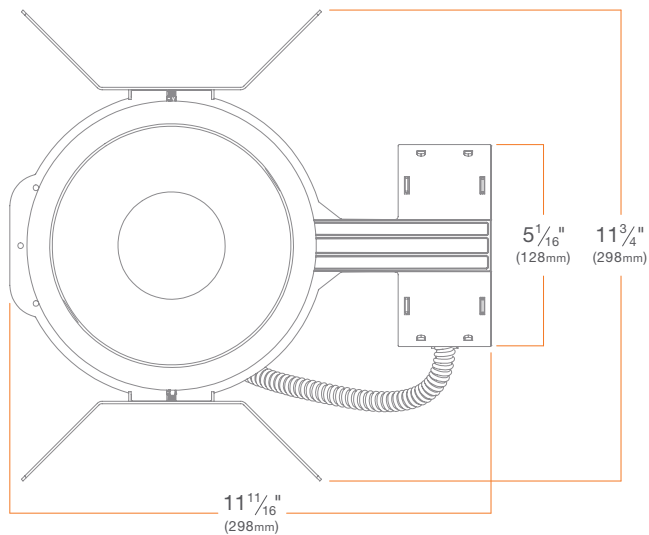
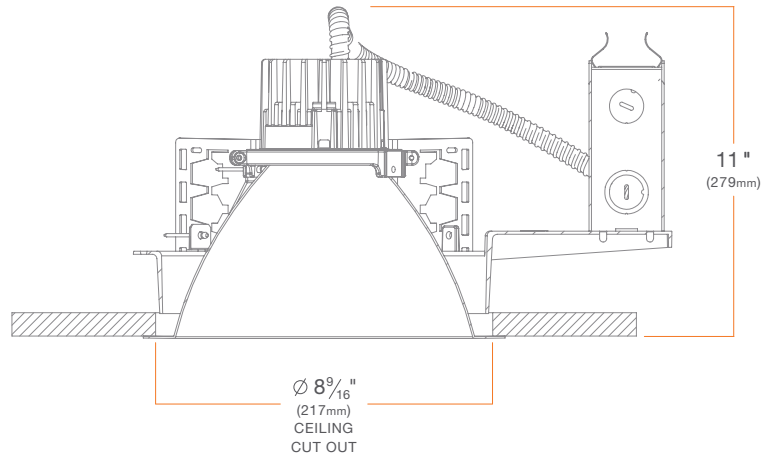
POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

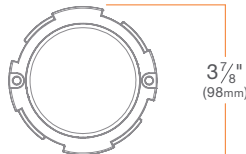
LISTINGS: Non-IC rated

4" Commercial New Construction

DCDHN4


HOUSING
6" Commercial New Construction
DCDHN6

8" Commercial New Construction
DCDHN8


MODULE



DCD1

Commercial LED Module

DCD1M

SUMMARY

LED: Cree® LED

DELIVERED LUMENS: 1500 lm (19.5W), 2000 lm (29.0W)

EFFICACY: 77 lm/W, 69 lm/W

COLOR QUALITY: 90+ CRI, 2-step SDCM

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

CONNECTOR: PowerPlug® Luminaire Disconnect Model 182

DIMMING: Down to less than 1% for 0-10V or Lutron Hi-lume® 1% at 120/277V

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

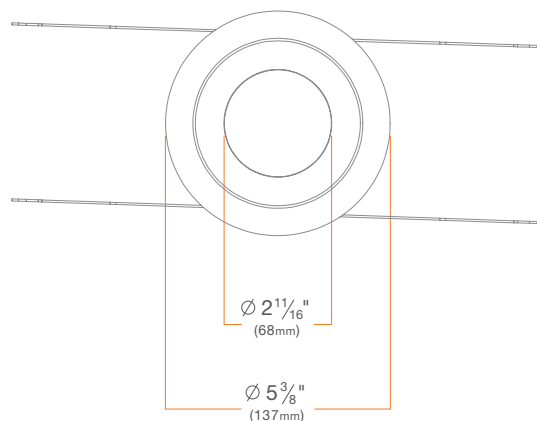
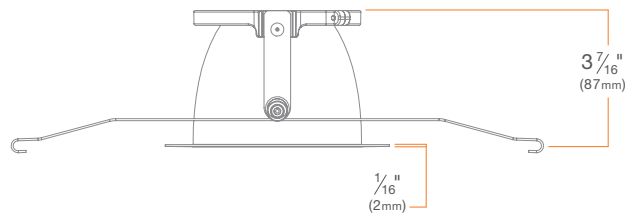
DCD2T

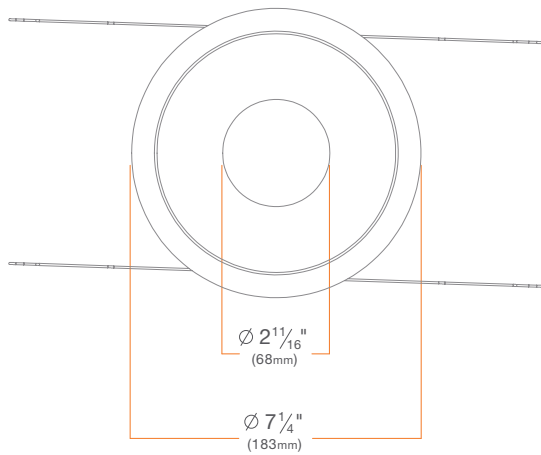
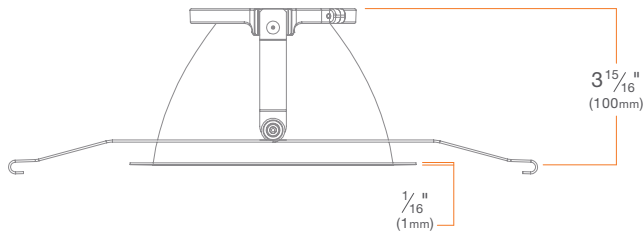
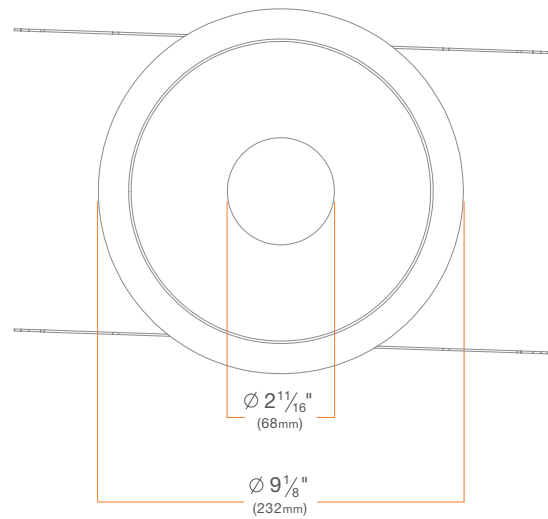
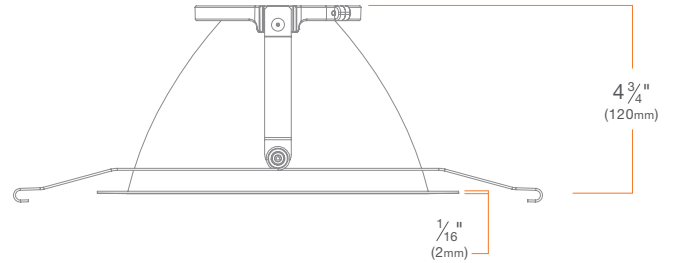
SUMMARY

CONSTRUCTION: Die-cast aluminum

INSTALLATION: Twist & Lock

4" Commercial Trim

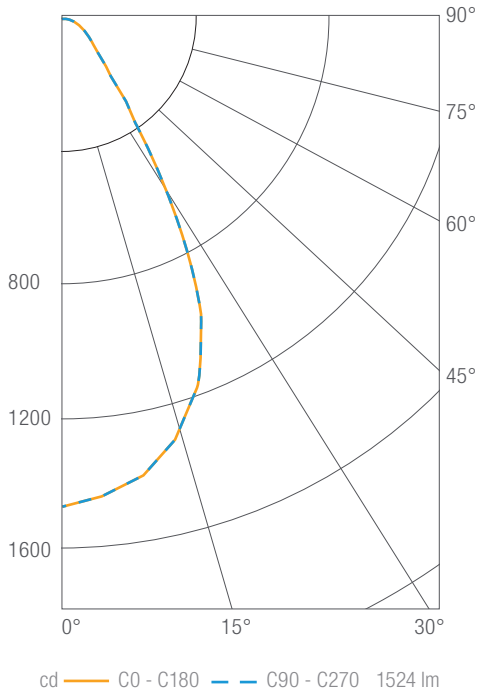
DCD2TR4


TRIM
6" Commercial Trim
DCD2TR6

8" Commercial Trim
DCD2TR8




PHOTOMETRY

DCD1 1500 lm, 3500K DCD1M15935A
6" Round Trim Smooth, White DCD2TR6SWH



Luminous Intensity

Gamma	C 0°
0°	1470
5°	1443
10°	1398
15°	1312
20°	1186
25°	989
30°	678
35°	384
40°	228
45°	160
50°	122
55°	99
60°	79
65°	62
70°	47
75°	32
80°	18
85°	6
90°	1

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	942	62
0-40	1201	79
0-60	1419	93
0-90	1524	100
0-180	1524	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	163	3.3'
6.0'	41	6.7'
9.0'	18	10'
12.0'	10	13.3'

Beam Angle: 58°

Lumen Scaling

DCD1M15 (1500 lm)	DCD1M20 (2000 lm)
1.00	1.33

CCT Scaling

DCD1M15927 (2700K)	DCD1M15930 (3000K)	DCD1M15935 (3500K)	DCD1M15940 (4000K)
0.93	1.00	1.00	1.07

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

Brand	Series	Model Number	Max Load DCD1M15	Max Load DCD1M20
Legrand	Titan	CD4FB	97	71
Leviton	IllumaTech	IP710-DLZ	46	34
Lithonia	Synergy	ISD BC	46	34
Lutron	Diva	DVTV	73	54
	Nova	NFTV	110	78
	Nova	NTSTV-DV	105	76
Watt Stopper	Micro Decorator Style	DCLV1	135	95