

# DRD2 & OneFrame

## General Recessed LED Downlight

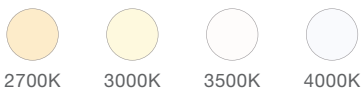







New Construction  
DRDHNJD Deep Junction Box

Project:	Type:
Product Code:	Date:

Spec Sheet V-08.15.19



- Combines the performance of a premium light engine with an intelligent design that makes it simple to install, maintain or replace
- Multiple ratings for compliancy in a wide range of situations
- Unique low profile and small aperture design allows installation in as little as 4" of ceiling space

<b>Application</b> New Construction		<b>Aperture</b> 4" Octagonal Deep Junction Box
<b>Delivered Lumens</b> 750 lm (10.8W), 1000 lm (12.8W)		<b>Color Quality</b> 93+ CRI, 2-step SDCM
<b>Color Temperature</b>  2700K   3000K   3500K   4000K		<b>Light Distribution</b>  General   Wall Wash
<b>Input Voltage</b> 120/277V	<b>Dimming</b> TRIAC/ELV 5%	<b>Warm Dim Option</b>  3000K – 1800K, 800 lm (12.0W)
<b>Trims</b> Round, Square, Hyperbolic, Pinhole, Beveled Pinhole, Wall Wash, Decorative, Flangeless		<b>Trim Finish</b> White, Black, Silver, Custom
<b>Housing Ratings</b>  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		<b>Module Ratings</b>  UL Listed for Wet Location

### Standards



### Guarantee

50,000 hrs | 5 years

### Additional Options

0-10V Dimming, Lutron Hi-lume® Dimming, Emergency Lighting, Concrete Tight, Apex Series Lighting, Adjustable Lighting



### PRODUCT BUILDER

#### HOUSING

PRODUCT CODE	APPLICATION	APERTURE
<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>DRDH</b> Housing	<b>N</b> New Construction	<b>JD</b> Deep Junction Box

#### MODULE

PRODUCT CODE	LUMENS	CRI	CCT
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>DRD2M</b> Module	<b>7</b> 750 lm	<b>9</b> 93+ CRI	<b>27</b> 2700K
	<b>10</b> 1000 lm		<b>30</b> 3000K
			<b>35</b> 3500K
			<b>40</b> 4000K

#### Warm Dim Option

<b>DRD2M</b> Module	<b>08</b> 800 lm	<b>9</b> 93+ CRI	<b>3W</b> 3000K - 1800K
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#### 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"/>
<b>DRD2T</b> Trim	<b>R</b> Round	<b>JD</b> Deep Junction Box	<b>S</b> Standard	<b>WH</b> White	<b>[Blank]</b> None
	<b>S</b> Square <sup>1</sup>		<b>H</b> Hyperbolic <sup>2,3</sup>	<b>BK</b> Black	<b>DOF</b> Decorative: Open, Frosted <sup>2,3,4</sup>
			<b>P</b> Pinhole <sup>2,3</sup>	<b>SW</b> Silver Reflector, White Flange	<b>DCF</b> Decorative: Closed, Frosted <sup>2,3,4</sup>
			<b>B</b> Beveled Pinhole <sup>2,3</sup>	<b>CC</b> Custom Color	<b>DCC</b> Decorative: Closed, Clear, Frosted Side <sup>2,3,4</sup>
			<b>W</b> Wall Wash <sup>2</sup>		<b>DCCF</b> Decorative: Closed, Clear, Frosted inside <sup>2,3,4</sup>
					<b>FL</b> Flangeless <sup>2,3,5</sup>
					<b>DF</b> Dead Front <sup>2,3,4</sup>

<b>DRDHX-MUD-FL</b>	Flangeless Mud Plate (Required with Flangeless Trim)
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<sup>1</sup> Only available in Standard or Wall Wash style

<sup>2</sup> Only available in White or Custom Color finish

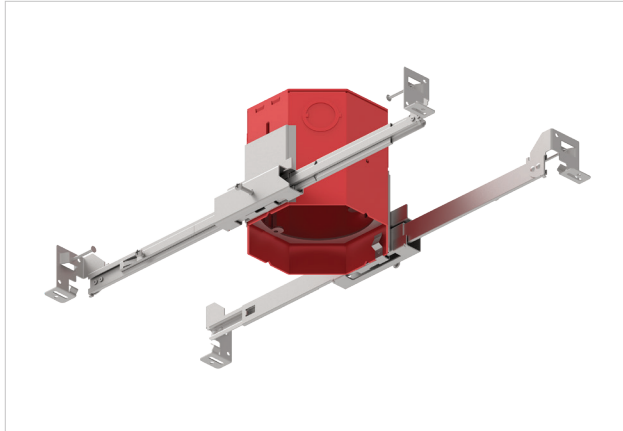
<sup>3</sup> Only available in Round shape

<sup>4</sup> Only available in Standard style

<sup>5</sup> Requires DRDHX-MUD-FL Mud Plate



### 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.

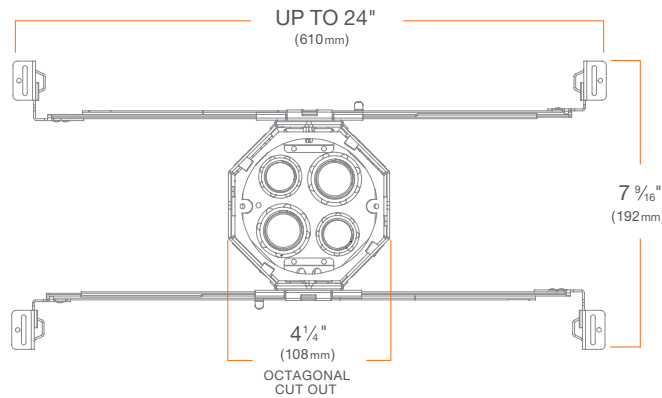
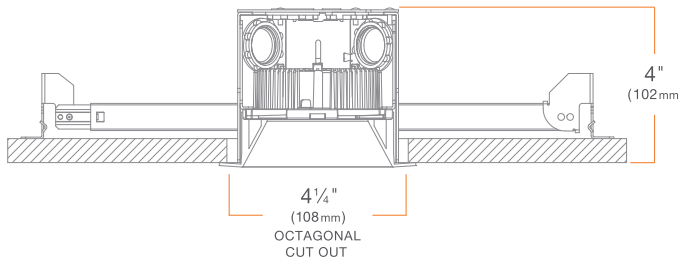
**MOUNTING:** Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1".

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

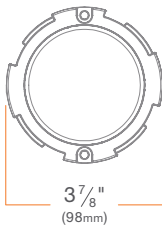
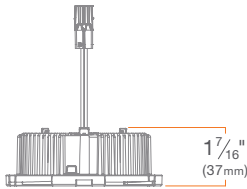
**CUTOUT:**  $4 \frac{1}{4}''$  (108mm) octagonal opening

**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

**WARRANTY:** 5 year limited warranty



### MODULE



## DRD2

General LED Module

### DRD2M

#### SUMMARY

**LED:** Cree® LED

**DELIVERED LUMENS (w Trim):** 750 lm (10.8W), 1000 lm (12.8W)

**EFFICACY:** 80 lm/W, 85 lm/W

**COLOR QUALITY:** 93+ CRI, 2-step SDCM

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

**CONNECTOR:** PowerPlug® Luminaire Disconnect Model 182

**DIMMING:** Down to less than 5% for TRIAC/ELV at 120V

**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%

**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), cULus Listed

**LIFETIME:** 50,000 hours at 70% lumen maintenance

**WARRANTY:** 5 year limited warranty

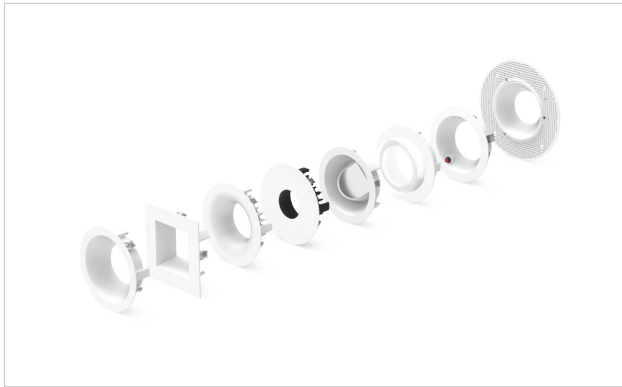
#### ● WARM DIM OPTION

**LED:** Bridgelux LED, **DELIVERED LUMENS (w Trim):** 800 lm (12.0W),

**EFFICACY:** 70 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 List for details

### TRIM



## OneFrame Trims

Recessed LED Downlight Trims

### DRD2T

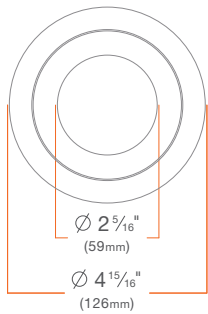
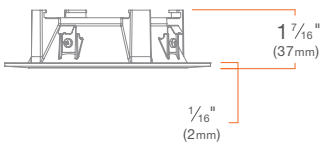
#### SUMMARY

**CONSTRUCTION:** Die-cast aluminum

**INSTALLATION:** Twist & Lock (flanged trims only)

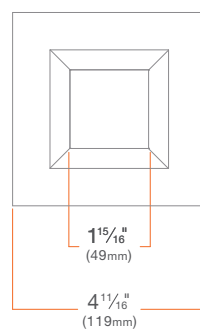
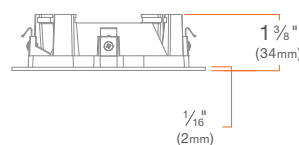
#### Round Trim

**DRD2TRJDSWH**



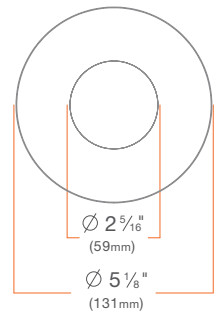
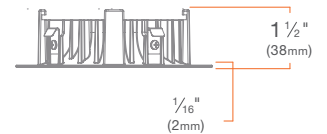
#### Square Trim

**DRD2TSJDSWH**



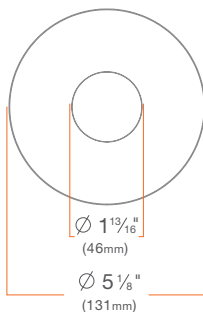
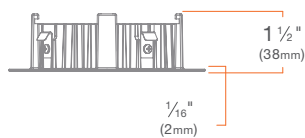
#### Hyperbolic Trim

**DRD2TRJDHWH**



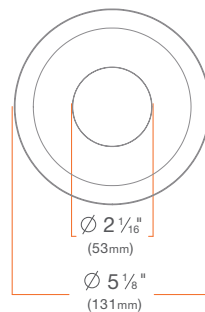
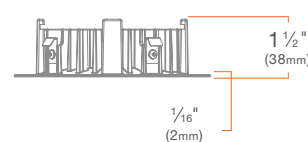
#### Pinhole Trim

**DRD2TRJDPWH**



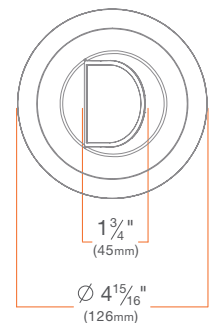
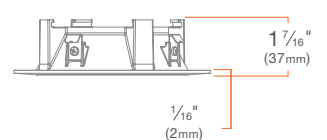
#### Beveled Pinhole Trim

**DRD2TRJDBWH**



#### Round Wall Wash Trim

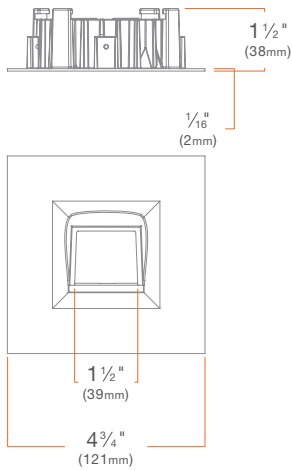
**DRD2TRJDWWH**



### TRIM

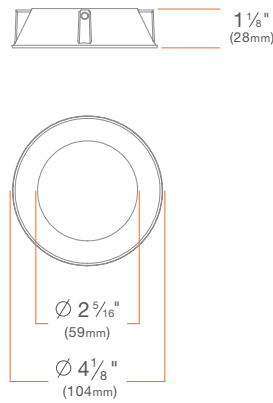
#### Square Wall Wash Trim

DRD2TSJDWWH



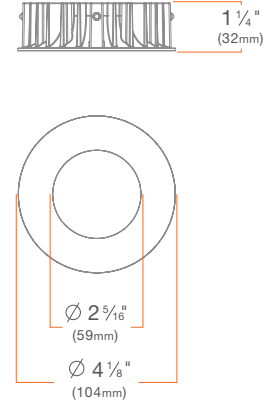
#### Round Flangeless Trim Insert

DRD2TRJDSWHFL



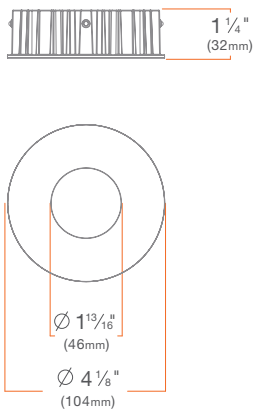
#### Hyperbolic Flangeless Trim Insert

DRD2TRJDHWHFL



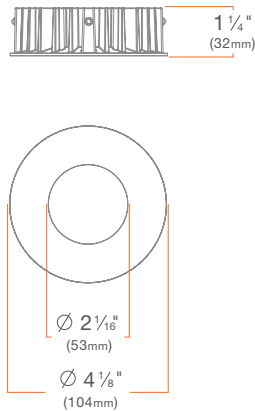
#### Pinhole Flangeless Trim Insert

DRD2TRJDPWHFL



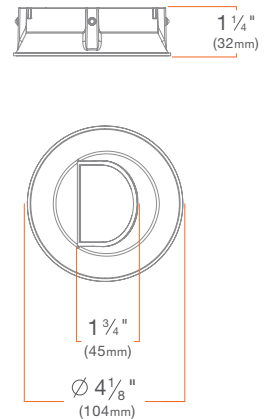
#### Beveled Pinhole Flangeless Trim Insert

DRD2TRJDBWHFL



#### Wall Wash Flangeless Trim Insert

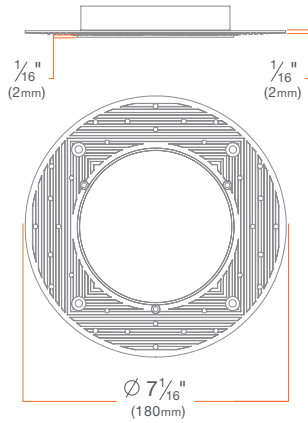
DRD2TRJDWWHFL



### TRIM

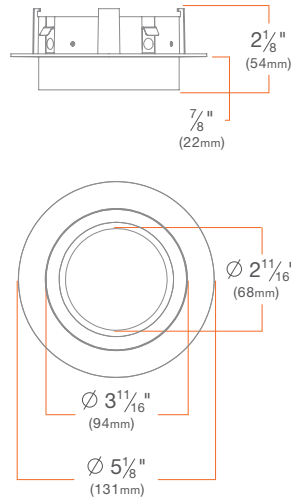
#### Flangeless Mud Plate

DRDHX-MUD-FL



#### Decorative Open Trim

Frosted: DRD2TRJDSWHDOF

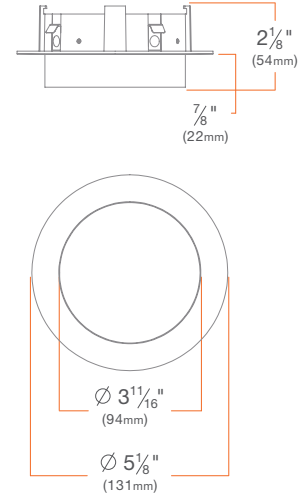


#### Decorative Closed Trim

Frosted: DRD2TRJDSWHDCF

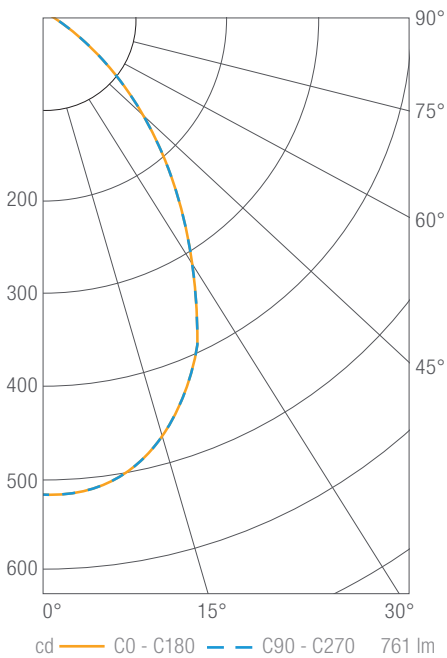
Clear, Frosted Inside: DRD2TRJDSWHGCC

Clear, Frosted Sides: DRD2TRJDSWHGCCF



### PHOTOMETRY

#### DRD2 750 lm, 3000K DRD2M7930 / Round Trim White DRD2TRJDSWH



Luminous Intensity

Gamma	C 0°
0°	518
5°	516
10°	506
15°	484
20°	447
25°	398
30°	335
35°	263
40°	196
45°	147
50°	110
55°	79
60°	54
65°	36
70°	23
75°	14
80°	9
85°	5
90°	2

Values in candela

Zonal Lumen Summary

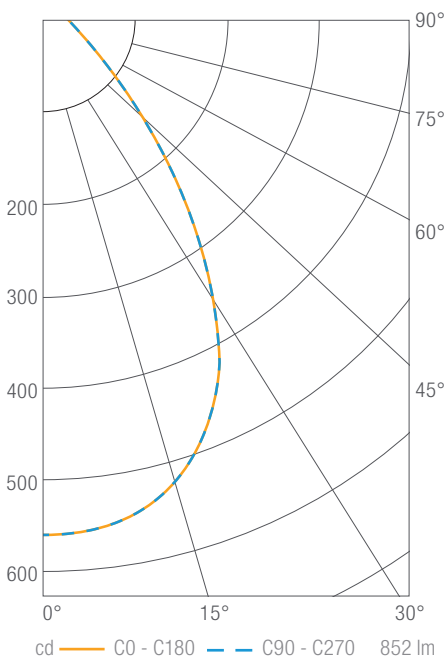
Zone	Lumens	Luminaire %
0-30	361	48
0-40	526	69
0-60	706	93
0-90	761	100
0-180	761	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	58	4.2'
6'	14	8.5'
9'	6	12.7'
12'	4	16.6'

Beam Angle: 70°

#### DRD2 - Warm Dim 800 lm, 3000K DRD2M0893W / Round Trim White DRD2TRJDSWH



Luminous Intensity

Gamma	C 0°
0°	559
5°	556
10°	546
15°	527
20°	494
25°	445
30°	379
35°	297
40°	216
45°	158
50°	120
55°	89
60°	59
65°	37
70°	24
75°	16
80°	10
85°	4
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	404	47
0-40	588	69
0-60	792	93
0-90	852	100
0-180	852	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	62	4.4'
6'	16	8.7'
9'	7	13.1'
12'	4	17.4'

Beam Angle: 72°

#### Lumen Scaling

DRD2M7 (750 lm)	DRD2M10 (1000 lm)
1.00	1.33

#### CCT Scaling

DRD2M7927 (2700K)	DRD2M7930 (3000K)	DRD2M7935 (3500K)	DRD2M7940 (4000K)
0.93	1.00	1.00	1.07



## DIMMER COMPATIBILITY

### Recommended Phase-control Dimmers (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2M7	Max Load DRD2M10
<b>Control 4</b>	Control 4	C4-APD120	10	9
<b>Cooper</b>	Decorator	DLC03P, DAL06P	25	20
<b>Legrand</b>	Adorne	ADTP703TU	35	30
<b>Lutron</b>	Caseta	PD-6WCL	12	10
	CL Series	AYCL-153, CTCL-153, DVCL-153, LGCL-513, SCL-153, TGCL-513	12	10
	CL Series	AYCL-253, DVCL-253	20	15
	Grafik Eye 3000	QSGR-3P	30	25
	Grafik Sys / Homeworks	RPM-4A	25	20
	Grafik Sys / Homeworks	RPM-4U	30	25
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	12	10
	Maestro Wireless	MRF2-6ELV, MRF2-6CL	12	10
	Radio RA	RRD-6NA, RRD-6CL, RRD-6D	12	10

### Compatible Phase-control Dimmers<sup>1</sup> (Dims down to 20% nominal measured light output)

Brand	Series	Model Number	Max Load DRD2M7	Max Load DRD2M10
<b>Cooper</b>	Slide	SLC03P, SAL06P	25	20
<b>Legrand</b>	Harmony	H703PTU, HCL453P	30	25
<b>Leviton</b>	IllumaTech Slide	IPE04	25	20
	SureSlide	6621, 6674	10	10
<b>Lutron</b>	Diva	DV-600	12	10
	Maestro	MA-600	12	9
	Maestro ELV	MAELV-600, MSCELV-600	35	30
	Maestro Wireless	MRF2-6ND	12	10
	Power Booster	PHPM-PA, PHPM-WBX	25	20
<b>Philips</b>	Sunrise	SR400RPC120, ZP260QEW	20	15
<b>Watt Stopper</b>	Digital Light Management	LMRC-221	160	150
	Dimming Sensor	PW-100D	14	12

<sup>1</sup> Dimmer compatibility reflects performance compatibility only. Please reference your local codes for application.



**DIMMER COMPATIBILITY**

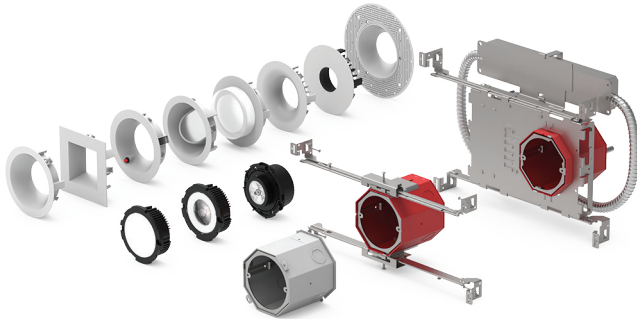
**Recommended Phase-control Dimmers - Warm Dim** (Dims down to 5% nominal measured light output)

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



# OneFrame System Options

Complete Downlighting Solution



## General Recessed LED Downlight

### **DRD2 & OneFrame**

DRDHNJD Deep Junction Box

### **DRD2 & OneFrame Alt/EM**

Alternate Dimming and/or Emergency Lighting  
DRDHNJD Deep Junction Box

### **DRD2 & OneFrame Concrete**

Concrete Tight  
DRDHNJC Deep Junction Box

## Apex Series Recessed LED Downlight

### **DRD2X & OneFrame**

DRDHNJD Deep Junction Box

### **DRD2X & OneFrame Alt/EM**

Alternate Dimming and/or Emergency Lighting  
DRDHNJD Deep Junction Box

### **DRD2X & OneFrame Concrete**

Concrete Tight  
DRDHNJC Deep Junction Box

## Adjustable Recessed LED Downlight

### **DRD4 & OneFrame**

DRDHNJD Deep Junction Box

### **DRD4 & OneFrame Alt/EM**

Alternate Dimming and/or Emergency Lighting  
DRDHNJD Deep Junction Box

### **DRD4 & OneFrame Concrete**

Concrete Tight  
DRDHNJC Deep Junction Box