#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

Project:	Туре:
Product Code:	Date:
	Spec Sheet V-07.01.20

• Combines the performance of a premium light engine with an intelligent design that makes it simple to install, maintain or replace

- Maintains all the standard SquareFrame features
- Offers enhanced dimming protocol compatibility including 0-10V and Lutron Hi-Lume® 1%
- Can provide lighting for more than 90 minutes after power failure - enough to meet common safety regulations like NFPA 101

Application	Aperture					
New Construction	4" Square Deep Junction Box	4" Square Deep Junction Box				
Delivered Lumens	Color Quality					
750 lm (10.8W), 1000 lm (12.8W)	93+ CRI, 2-step SDCM					
Color Temperature	Light Distribution					
2700K 3000K 3500K 4000K	General Wall Wash					
Input Voltage 120/277V	Dimming					
120/2777	0-10V 1%, Lutron HI-lume <sup>®</sup> 1%	0-10V 1%, Lutron Hi-lume® 1%				
Warm Dim Option	Emergency Lighting					
3000K – 1800K, 800 lm (12.0W)	Emergency LED Driver for lighting up to 90 minutes in event of power failure					
<u> </u>						
Trims	Trim Finish					
Emergency, Square, Round on Square, Pinhole, Beveled Pinhole, Wall Wash, Decorative, Flangeless, Dead Front	White, Black, Silver, Custom					
Housing Ratings		Module Ratings				
Code compliant for use in fire-rated assemblies up to a maximum of 2-hours	ASTM E283 Certified Air Tight	UL Listed for Wet Location				
Standards Guarantee	Additional Options					
50,000 hrs   5 ye	ears TRIAC/ELV Dimming, Apex Adjustable Lighting	Series Lighting,				





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#### PRODUCT BUILDER

#### HOUSING

PRODU	CT CODE	AP	PLICATION	APE	RTURE	DRIVE	3	OPTION	
DRDH	Housing	Ν	New Construction	JS	Square Junction Box	70	0-10V, 750 lm	[Blank]	None
						80W	0-10V, 800 lm	EM	EM Driver, Integrated Test Switch
						100	0-10V, 1000 lm	EMS	EM Driver, Remote Test Switch
						7C	Lutron LDE1 <sup>1</sup> , 750 lm		
						8CW	Lutron LDE1 <sup>1</sup> , 800 lm		
						10C	Lutron LDE1 <sup>1</sup> , 1000 lm		
						7L	Lutron LTEA2W <sup>2</sup> , 750 lm		
						8LW	Lutron LTEA2W <sup>2</sup> , 800 lm		
						10L	Lutron LTEA2W <sup>2</sup> , 1000 lm		

#### MODULE

PRODUCT	CODE	LUN	IENS	CF	RI	ССТ		DRIV	'ER
DRD2M	Module	7	750 lm	9	93+ CRI	27	2700K	Α	Alternate
		10	1000 lm			30	3000K		
						35	3500K		
						40	4000K		
Warm Dir	n Option								

DRD2M         Module         08         800 lm         9         93+ CRI         3W         3000K - 1800K         A         Alternate
---

#### TRIM

PRODUC	T CODE	SHA	APE	APE	RTURE	ST	YLE	FINIS	H	OPTION	
DRD2T	Trim	S	Square	JS	Square Junction Box	s	Standard	WН	White	[Blank]	None
						Q	Round on Square	BK	Black	DCF	Decorative: Closed, Frosted <sup>3,4</sup>
						Ρ	Pinhole <sup>3</sup>	SW	Silver Reflector, White Flange	DCCF	Decorative: Closed, Clear, Frosted inside <sup>3,4</sup>
						в	Beveled Pinhole <sup>3</sup>	СС	Custom Color	FL	Flangeless 3,5
						w	Wall Wash <sup>3</sup>			EM	Emergency <sup>3,4</sup>
										DF	Dead Front <sup>3,4</sup>

 DRDHX-MUD-SFL
 Flangeless Mud Plate (Required with Flangeless Trim)

<sup>1</sup> Lutron LDE1 refers to Lutron Hi-lume 1% EcoSystem LED driver

with Soft-on, Fade-to-Black™

 $^{\rm 2}$  Lutron LTEA2W refers to Lutron Hi-lume 1% 2-wire LED driver, 120V only

<sup>3</sup> Only available in White or Custom Color finish

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

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

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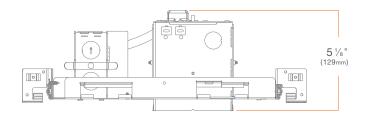


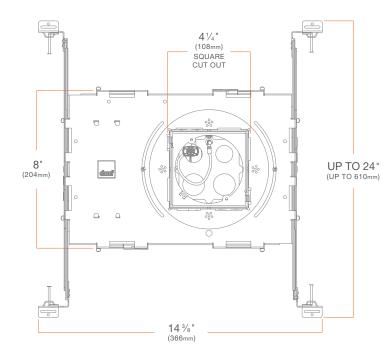
#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### HOUSING







### **SquareFrame**

Alternate Dimming and/or Emergency Lighting Deep Junction Box DRDHNJS

#### SUMMARY

**JUNCTION BOX:** Equipped with (8) trade size knockouts (four (1/2") side, two ( $^{3}/_{4}$ ") top, two (1/2") top) and (4) Romex knockouts (side) to allow straight conduit runs. Approved for 8 (four in, four out) #12 AWG.

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

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

CUTOUT: 4 1/4" (108mm) square opening

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

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

MAX INPUT CURRENT (120V): 0.090 amps (750 lm), 0.107 amps (1000 lm), 0.11 amps (800 lm Warm Dim)

MAX INPUT CURRENT (277V): 0.042 amps (750 lm), 0.050 amps (1000 lm), 0.047 amps (800 lm Warm Dim)

**POWER FACTOR:** Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

WARRANTY: 5 year limited warranty



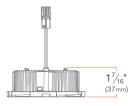
MODULE

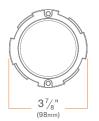
# DRD2 & SquareFrame Alt/EM

#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box







# DRD2

General LED Module
DRD2M

#### SUMMARY

LED: Cree® LED

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

EFFICACY: 80 Im/W, 85 Im/W

COLOR QUALITY: 93+ CRI, 2-step SDCM

ССТ: 2700К, 3000К, 3500К, 4000К

**CONNECTOR:** PowerPlug<sup>®</sup> Luminaire Disconnect Model 102

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

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

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

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

**LISTINGS:** ENERGY STAR<sup>®</sup> qualified, California Title 24 2016 JA8 compliant, UL Listed for Wet Location (with flanged and non-EM trims only), cULus Listed

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty

#### WARM DIM OPTION

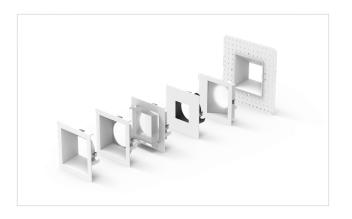
LED: Bridgelux LED, DELIVERED LUMENS (w Trim): 800 lm (12.0W), EFFICACY: 70 lm/W, CCT RANGE: 3000K - 1800K



#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### TRIM



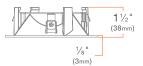
# **SquareFrame Trims**

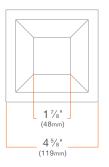
Recessed LED Downlight Trims
DRD2T

#### SUMMARY

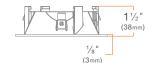
**CONSTRUCTION:** Die-cast aluminum **INSTALLATION:** Twist & Lock (flanged trims only)

# Square Trim

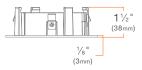


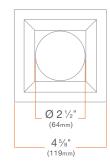


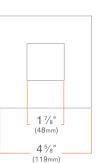
# Round on Square Trim



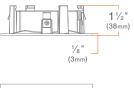
# Pinhole Trim

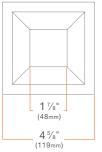




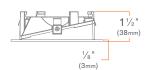


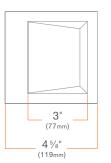
#### Beveled Pinhole Trim DRD2TSJSBWH





#### Wall Wash Trim DRD2TSJSWWH





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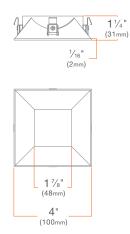
TRIM

# DRD2 & SquareFrame Alt/EM

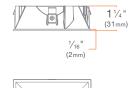
#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### Square Flangeless Trim Insert DRD2TSJSSWHFL

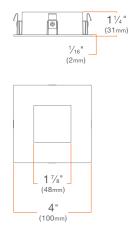


Round on Square Flangeless Trim Insert DRD2TSJSQWHFL

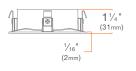


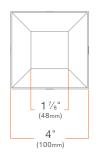


Pinhole Flangeless Trim Insert DRD2TSJSPWHFL

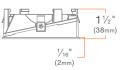


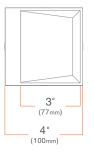
#### Beveled Pinhole Flangeless Trim Insert DRD2TSJSBWHFL





Wall Wash Flangeless Trim Insert DRD2TSJSWWHFL





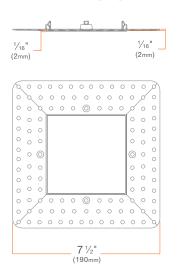


#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

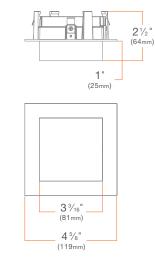
TRIM

# Flangeless Mud Plate

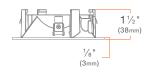


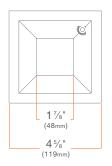
#### Decorative Closed Trim Frosted: DRD2TRJDSWHDCF

Clear, Frosted Sides: DRD2TRJDSWHDCCF



#### Emergency Trim DRD2TSJSSWHEM





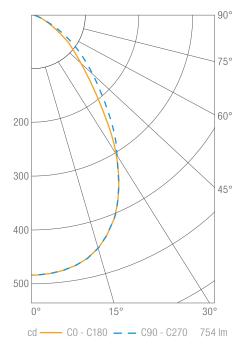


#### General Recessed LED Downlight

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### PHOTOMETRY

#### DRD2 750 lm, 3000K DRD2M7930 / Round on Square Trim White DRD2TSJSQWH



Luminous	s Intensity
Gamma	C 0°
0°	484
5°	481
10°	473
15°	455
20°	424
25°	379
30°	319
35°	248
40°	181
45°	134
50°	103
55°	75
60°	49
65°	30
70°	20
75°	14
80°	9
85°	4
90°	0

Zonal Lumen Summary							
Zone	Lumens	Luminaire %					
0-30	346	46					
0-40	507	67					
0-60	700	93					
0-90	754	100					
0-180	754	100					

#### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	54	4.3'
6'	13	8.5'
9'	6	12.8'
12'	3	17.1'

Beam Angle: 71°

Values in candela

#### DRD2 - Warm Dim 800 Im, 3000K DRD2M0893W / Round on Square Trim White DRD2TSJSQWH

Luminous Intensity Gamma C 0° 00 539 5° 535 10° 526 15° 506 20° 472 25° 422 30° 357 35° 277 40° 203 45° 151 50° 117 55° 86 60° 55 65° 33 70° 22 75° 16 80° 10 85° 4 90° 0

Values in candela

**CCT** Scaling

#### Zonal Lumen Summary

Zone	Lumens	Luminaire %						
0-30	386	46						
0-40	565	67						
0-60	779	93						
0-90	840	100						
0-180	840	100						

#### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	60	4.3'
6'	15	8.5'
9'	7	12.8'
12'	4	17.1'

Beam Angle: 71°

#### Lumen Scaling

DRD2M7 (750 lm)	DRD2M10 (1000 lm)	DRD2M7927 (2700K)	DRD2M7930 (3000K)	DRD2M7935 (3500K)	DRD2M7940 (4000K)
1.00	1.33	0.93	1.00	1.00	1.07

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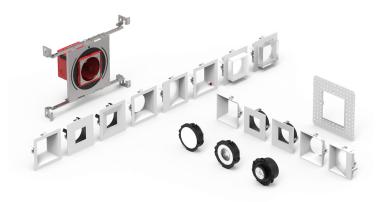
Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### 0-10V DIMMER COMPATIBILITY

Brand	Series	Model Number	Max Load DRD2M7	Max Load DRD2M10
Legrand	Titan	CD4FB	80	65
Leviton	IllumaTech	IP710-DLZ	40	30
Lithonia	Synergy	ISD BC	35	30
Lutron	Diva	DVTV	60	50
	Nova	NFTV	60	50
	Nova	NTSTV-DV	60	50
	PowPak	RMJ-5T-DV	60	50

# SquareFrame System Options

The Perfect Square



#### General Recessed LED Downlight

DRD2 & SquareFrame DRDHNJS Square Junction Box

#### DRD2 & SquareFrame Alt/EM

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### Apex Series Recessed LED Downlight

DRD2X & SquareFrame DRDHNJS Square Junction Box

#### DRD2X & SquareFrame Alt/EM

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box

#### Adjustable Recessed LED Downlight

DRD4 & SquareFrame DRDHNJS Square Junction Box

#### **DRD4 & SquareFrame Alt/EM**

Alternate Dimming and/or Emergency Lighting DRDHNJS Square Junction Box