

LMD3

Project Name:

Type:



APPLICATION

3" small and powerful recessed LED downlight is complete with high performance and a wide range of options for optics, trim styles / configurations, beam spreads, housings, mounting and more provide flexible designs and options. Ideal for indoor low to medium ceilings such as retails, hospitality, and commercial installations.

FEATURES:

- 2.6" aperture aluminum housing as heat sink.
- Adjustable ring: 360° rotation and a maximum 30° tilt angle.
- Architectural friendly, up to 50,000 unique combinations.
- New constructions and remodel driver option.

INSTALLATION:

- Twist & lock feature for easy trim installation.
- Durable tension clips allow fast and easy flush installation.

LED:

- High efficiency COB LED.
- Up to 1700 delivered lumens.
- Fixed CCT: CRI 90+,
Dim to warm: CRI 95+
- Color Temperature:
Fixed: 2700/3000/3500/4000K
Dim to warm: from 3000-2000K

TRIM:

- Available in white and black finish.
- Trimmed, trimless with various shades options.

LENS:

- Provides high transmittance, light control and anti-glare with side facula and fade-out facula.
- The MR16 standard size (diameter 1.96") designs make them widely practical.
- Available in 15°-60° beam angles; beam spreads are interchangeable (easily swapped in the field without tools).

ELECTRICAL:

- 2-in-1 dimming: 0-10V dimming (1-100% continuous dim.) and Triac.
- 120-277Vac / 120Vac Triac (std.)
- Power Factor > 0.9, THD <20%
- Operating Temperature Range:
-4°F (-20°C) ~ 104°F (40°C).
- Thermal overload protection shuts down the luminaire when temperature exceeds designed operating condition..

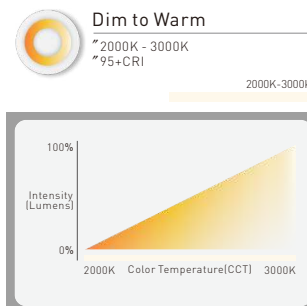
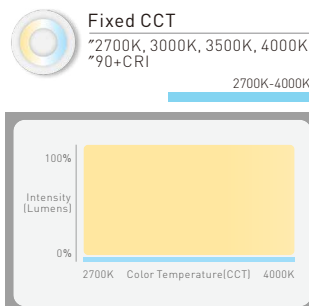
LISTING:

- UL certified for indoor damp location.
- 5 years limited warranty.

CONFIGURATIONS

Model	LED Watts	Round, 24° beam @ 3000K		Square, 24° beam @ 3000K		Dim to Warm 30K-20K @ 95+ CRI
		Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	
LMD3	5W	95 lm/W	475 lm	95 lm/W	475 lm	13W - 0.8W Up to 1200 lm 95 lm/W
	8W	100 lm/W	800 lm	96 lm/W	795 lm	
	10W	99 lm/W	990 lm	95 lm/W	950 lm	
	13W	95 lm/W	1235 lm	91 lm/W	1183 lm	
	16W	91 lm/W	1456 lm	87 lm/W	1390 lm	
	19W	89 lm/W	1690 lm	85 lm/W	1615 lm	

The lumens are based on 3000K, 90+ CRI, 24° beam angle, white round trim with 360° horizontal adjustable holder. Lumen output may vary ±5% based on different CCT, beam angle, adjustable holder, trim shape and shade.



EXAMPLE: LMD3-R-TWH-10L-DM-35K-B15-HA-SWH-RM

MODEL	SIZE & SHAPE		TRIM & FLANGE ¹		LED		DIMMING		COLOR TEMP.		CRI	
LMD3	R	3" Round	TWH TBK TL	Trimmed, with White flange Trimmed, with Black flange Trimless	5L	5W LED	DM	0-10V (dim to 1%) or Triac dim (std.)	-27K	2700K	(Blank) C95	CRI 90+ for fixed CCT CRI 95+ for Dim to Warm only
	S	3" Square			8L	8W LED			-30K	3000K		
					10L	10W LED			-35K	3500K		
					13L	13W LED			-40K	4000K		
					16L	16W LED			-DW	Dim to Warm (30K-20K, 13W-0.8W)		
				19L	19W LED							

BEAM OPTIONS		ADJUSTABLE HOLDER		TRIM SHADE ^{1, 2}					
B15	Beam 15°	HA	360° Horizontal Adjustment	S Square	WH	White	PO Pinhole Oval	WW	White inside, White outside
B24	Beam 24°		BK		Black	BW		Black inside, White outside	
B36	Beam 36°		GO	Gold	GW	Gold inside, White outside			
B60	Beam 60°		CH	Chrome	CW	Chrome inside, White outside			
L18	Low Glare Beam 18°	TA	Tilt Angle and 360° Horizontal Adjustment	R Round	WH	White	RWW Round Wall Wash	WB	White inside, Black outside
L28	Low Glare Beam 28°		BK		Black	BB		Black inside, Black outside	
L38	Low Glare Beam 38°		GO	Gold	GB	Gold inside, Black outside			
L50	Low Glare Beam 50°		CH	Chrome	CB	Chrome inside, Black outside			
				PR Pinhole Round	WW	White inside, White outside	SWW Square Wall Wash	WH	White
					BW	Black inside, White outside		BK	Black
					GW	Gold inside, White outside			
					CW	Chrome inside, White outside			
					WB	White inside, Black outside			
					BB	Black inside, Black outside			
					GB	Gold inside, Black outside			
					CB	Chrome inside, Black outside			

MOUNTING		OPTIC ³				OPTIONS	
RM	Remodel	(Blank)	None (std.)	⁴[Decorative Kit]		REM8	8W remote EM (field install)
NF	New Construction Frame Kit (Non-IC)	HB	Honeycomb (only for Round/Square shade)	DYB	Yellow trim with black shield		
NH	New Construction Housing Insulation Kit (IC)	WR	Waterproof Round Plate (wet-Rated for Round shade)	DYW	Yellow trim with white shield		
				DGB	Green trim with black shield		
		WS	Waterproof Round Plate (wet-Rated for Square shade)	DGW	Green trim with white shield		
				DCB	Clear trim with black shield		
				DCW	Clear trim with white shield		
				DBB	Blue trim with black shield		
				DBW	Blue trim with white shield		
				DRB	Red trim with black shield		
				DRW	Red trim with white shield		

1. See TRIM FINISH & SHAPE section for more information.
2. See TRIM SHADE section for more information.
3. See OPTIC section for more information.
4. Only available with Round shade.

LMD3

DIMENSIONS

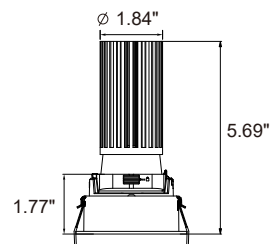
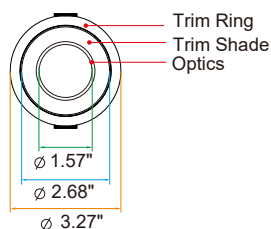
LMD3-R-TWH/BK

3" Round Trim



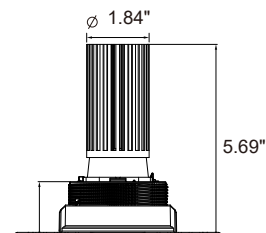
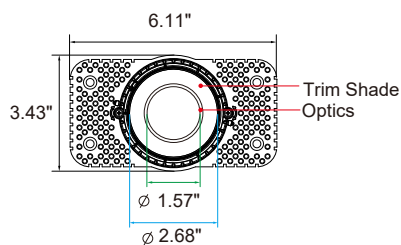
2.6"

Mounting Diameter: 2.96" - 3.11"



LMD3-R-TL

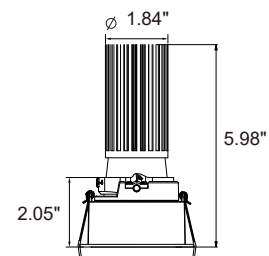
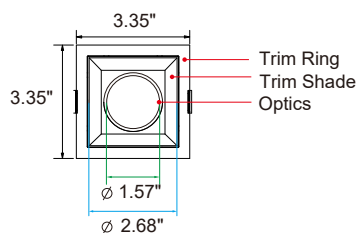
3" Round Trimless



Mounting Diameter: 3.51" - 3.70"

LMD3-S-TWH/BK

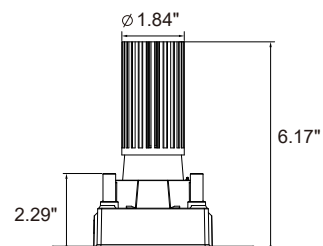
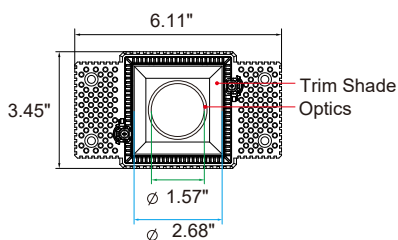
3" Square Trim



Mounting Diameter: [2.96"-3.11"] x [3.11" - 3.19"]

LMD3-S-TL

3" Square Trimless

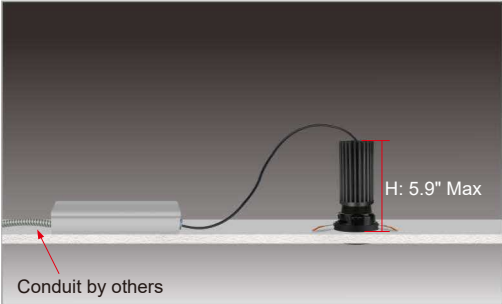


Mounting Diameter: 3.51" - 3.70"

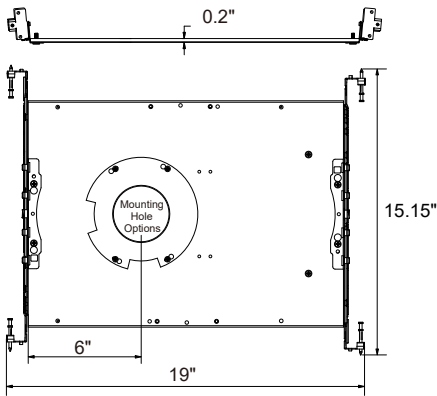
LMD3

MOUNTING

RM Remodel (remote box LED driver)

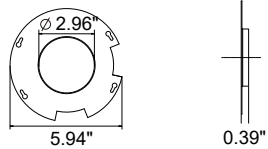


NF New Construction Frame Kit (Non-IC)

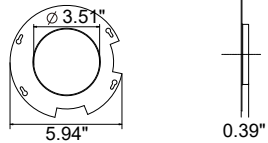


Mounting Hole Options

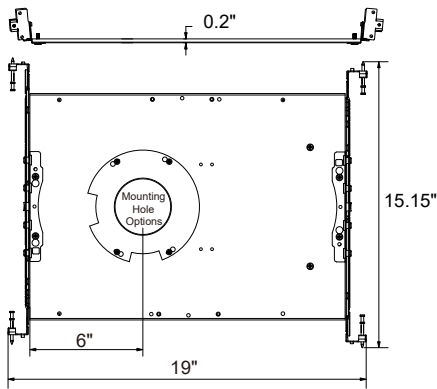
3" Round Trim



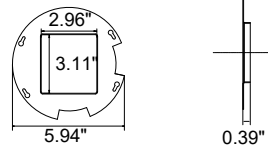
3" Round Trimless



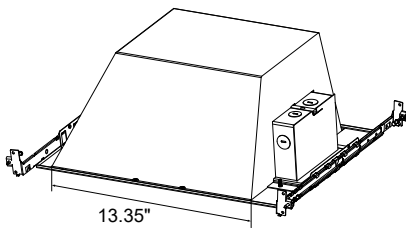
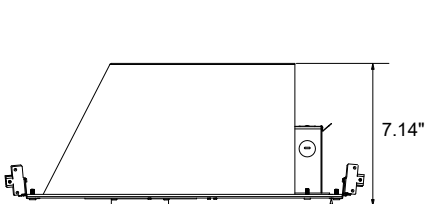
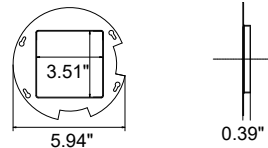
NH New Construction Housing Insulation Kit (IC)



3" Square Trim

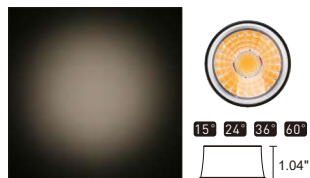


3" Square Trimless

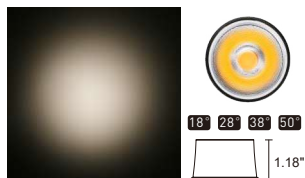


LMD3

LENS



B15, B24, B36, B60
Standard Lens



L18, L28, L38, L50
Low Glare Lens Lens

TRIM & FLANGE



Trimmed With Flange

Trimless Spackle-In

TRIM FINISH & SHAPE



OPTIC



HB Honeycomb
* only for Round/Square shade



WR Waterproof Plate (wet rated)
* only for Round shade



WS Waterproof Plate (wet rated)
* only for Square shade

DECORATIVE KIT



DYB
Yellow trim with Black shield



DYW
Yellow trim with White shield



DGB
Green trim with Black shield



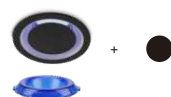
DGW
Green trim with White shield



DCB
Clear trim with Black shield



DCW
Clear trim with White shield



DBB
Blue trim with Black shield



DBW
Blue trim with White shield



DRB
Red trim with Black shield



DRW
Red trim with White shield

LMD3

TRIM SHADE

 S Square	 WH White	 BK Black	 GO Gold	 CH Chrome
 R Round	 WH White	 BK Black	 GO Gold	 CH Chrome
 PR Pinhole Round	 WW Inside White Outside White	 BW Inside Black Outside White	 GW Inside Gold Outside White	 CW Inside Chrome Outside White
	 WB Inside White Outside Black	 BB Inside Black Outside Black	 GB Inside Gold Outside Black	 CB Inside Chrome Outside Black
 PO Pinhole Oval	 WW Inside White Outside White	 BW Inside Black Outside White	 GW Inside Gold Outside White	 CW Inside Chrome Outside White
	 WB Inside White Outside Black	 BB Inside Black Outside Black	 GB Inside Gold Outside Black	 CB Inside Chrome Outside Black
 RWW Round Wall Wash	 WH Round White	 BK Round Black		
 SWW Square Wall Wash	 WH Round White	 BK Round Black		

LMD3-R-19L-30K-B24

UNIT:cd

- C0/180,22.6 °
- C30/210,22.5 °
- C60/240,22.6 °
- C90/270,22.5 °

AVERAGE BEAM ANGLE(50%): 22.6°

Zonal Flux Diagram

DEG	LUMINOUS INTENSITY:cd
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Zonal Lumens

UNIT: lm

Luminance cd/(m2)

G[DEG]	C0/180	C90/270
85	180	638
80	744	1063
75	1112	1426
70	1414	1735
65	1711	1995
60	1689	1866
55	1756	1832
50	1881	1921
45	2314	2250

UNIT:cd

- C0/180,22.5 °
- C30/210,22.5 °
- C60/240,22.8 °
- C90/270,22.5 °

AVERAGE BEAM ANGLE(50%): 22.5°

Zonal Flux Diagram

DEG	LUMINOUS INTENSITY:cd
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Zonal Lumens

UNIT: lmLuminance $\text{cd}/(\text{m}^2)$

G(°EG)	C0/180	C90/270
85	140	554
80	619	774
75	849	911
70	1004	1055
65	2826	2900
60	3007	3243
55	2626	2749
50	2437	2512
45	2299	2348