

# MXG2DRTR

3.5" MX G2 LED Downlight

## ELECTRICAL DATA

Trim	Wattage	CCT / CRI	Lumens	Beam Angle
L0	10W	3000K / 82 CRI	950lm	95
L1	16W	3000K / 82 CRI	1300lm	81
L2	20W	3000K / 82 CRI	1550lm	78
L3	26W	3000K / 82 CRI	1850lm	71

\*System Wattage include driver and LED Module consumption. \*\*Delivered lumens will vary depending on trim, CCT, CRI, optic and ceiling thickness

## FEATURES

- Multiple architectural trim options
- High center beam spot up to 24,500 CBCP
- Dedicated 9° with field changeable 12°, 24°, 36° & 50° optics

## LED LIGHT ENGINE

- 92 CRI & 82 CRI in 2700K, 3000K, 3500K or 4100K with 2SDCM binning
- >50,000 hours L70 (rated life at 70% output)

## ELECTRICAL SYSTEM

- (Non-IC) Dedicated voltage options of 120V or 277V. Must be specified in catalog code.
- (-IC/-CP) Universal 120V/277V input
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.

## DIMMING

- 0-10V Dimming 1%
- Forward/reverse dimming 1% (120V only)
- EldoLED 0-10V 0.1% or 1%
- Lutron® LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
- DMX512 RDM 0.1%

## HOUSING

- Heavy duty black powder coated 18 gauge steel frame
- Standard housing accommodates 5/8" ceiling thickness
- Extended collar options available for ceilings up to 1" or 2" thick, must specify either EC1 or EC2 (EC1/EC2 Not available with Chicago Plenum)

## TRIM SPECIFICATION

High quality die-cast A380 aluminum trims with durable powder coat finishes. Architectural, discrete self flange or painted white flange options available. Trims available in 1-1/2" regress for greater visual comfort or 1/2" regress for consistent look throughout space.

## INSTALLATION

Housing types include IC Air-Tight, CCEA (Chicago Plenum), or Non-IC Rated (must specify). Non-IC rated housings must be kept at a minimum of 3" away from insulation. Butterfly brackets are compatible with C-channel, adjustable bar hangers (14"-25") and EMT. C-channel is recommended for T-bar ceilings. Bar hangers must be ordered separately. Max. ambient temperature: 95°F (35°C).

## EMERGENCY BACKUP

Remote test switch included. External battery operates LED load at a minimum of 500 to 850 lumens for 90 minutes, depending on backup wattage selected. See trim multipliers for detailed performance. Servicing requires above ceiling access. (EM not available with Chicago Plenum)

## ACCESSORIES

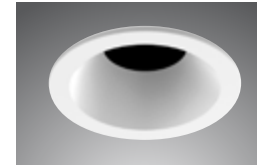
Luminaire will accommodate (2) accessories, accessory holder required, see page 2.

## LISTING / WARRANTY

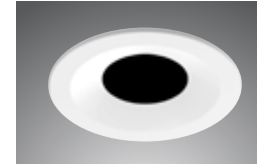
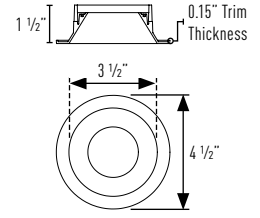
- 5-Year Intense LED Limited Warranty
- ETL listed to US and Canadian standards for damp locations
- (-IC/-CP Only) Air-Tight Certified ASTM E283
- (-IC/-CP Only) ETL listed for direct contact w/insulation
- (-CP Only) CCEA Chicago Plenum
- ENERGY STAR® Qualified<sup>1</sup>
- Can be used to comply with 2016 Title 24, Part 6, JA8 high efficacy LED light source requirements<sup>2</sup>



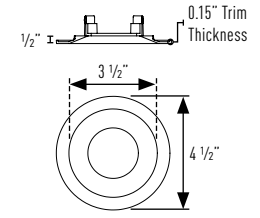
JOB NAME	CATALOG NUMBER
NOTES	TYPE



**MXTG2-RTRD300**  
(1-1/2" regress)



**MXTG2-RTRR300**  
(1/2" Regress)



Housing Dimensions Are On Page 2

## Available Trim Finishes



## Housing Part Number (Example: MXG2DRTR-ICL1)

Housing	Installation Type	Ceiling Thickness	Wattage	Dimming	Voltage	Options
MXG2DRTR	-NC (Non-IC)	blank (5/8")	L0 (10W)	blank (Non-Dimming)	blank (Non-IC: 120V	I100 (C-Channel Bar Hangers)
	-IC (Air-Tight IC)	EC1 <sup>3</sup> (1")	L1 (16W)	DELV <sup>5</sup> (Phase Dimming)	-IC/-CP: 120V/277V)	I200 (Flat Bar Hangers)
	-CP (Chicago Plenum)	EC2 <sup>3</sup> (2")	L2 (20W)	D101 (0-10V Dimming 1%)	27 (277V Non-IC Only, for -IC/-CP housing options use blank)	I400 (Wood Joist Bar Hangers)
			L3 <sup>4</sup> (26W)	ED10V1 <sup>6</sup> (eldoLED 0-10V 1%)		-EM7 <sup>7</sup> (7W Emergency Backup IOTA Part #ILB-CP07-A)
			ED10V01 <sup>6</sup> (eldoLED 0-10V 0.1%)			-EM12 <sup>9,10</sup> (12W Emergency Backup IOTA Part #ILB-CP12-A)
			LUT <sup>7</sup> (Lutron® LDE1 EcoSystem 1%)			
			DMXR <sup>8</sup> (DMX512 RDM 0.1%)			

## Trim Part Number (Example: MXTG2-RTRD300W-SFL13024)

Trim	Finish	Wattage	CCT / CRI	Optic
MXTG2-RTRD300 (1-1/2" regress)	W-SF (White / Self Flanged)	L0 (10W)	27 (2700K / 82 CRI)	09 <sup>12</sup> (9° Narrow Spot)
	B-SF (Black / Self Flanged)	L1 (16W)	279 (2700K / 92 CRI)	12 (12° Spot)
MXTG2-RTRR300 (1/2" Regress)	SN-SF (Satin Nickel / Self Flanged)	L2 (20W)	30 (3000K / 82 CRI)	24 (24° Narrow Flood)
	SN-SFW <sup>11</sup> (Satin Nickel / Self Flanged White)	L3 <sup>4</sup> (26W)	309 (3000K / 92 CRI)	36 (36° Flood)
	AB-SF (Antique Bronze / Self Flanged)		35 (3500K / 82 CRI)	50 (50° Wide Flood)
	AB-SFW <sup>11</sup> (Antique Bronze / Self Flanged White)		359 (3500K / 92 CRI)	
			41 (4100K / 82 CRI)	
			419 (4100K / 92 CRI)	

## Notes:

- ENERGY STAR® Qualified (White reflectors only; Excludes: L2, L3, 92 CRI & 9° options)
- Excludes: L2, L3, 82 CRI & 9° options
- EC1/EC2 not available with (-CP) Chicago Plenum
- L3 available with Non-IC housings only
- Available in 120V only
- Not Available in L3
- Not Available in L2 & L3
- DMX512 RDM not available in L0 & L1
- Access above ceiling required; not available with (-CP) Chicago Plenum
- Not available in L0
- Consult factory for lead times
- 9° NS available in 279 with L0 or L1 Only

MX DOWNLIGHTING LUM-105.23 P-1

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to [www.intenselighting.com](http://www.intenselighting.com). For a printed copy of the warranty, you may call 800 961-5321.

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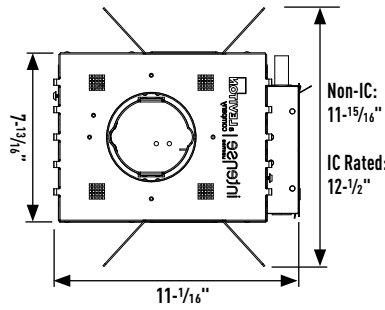
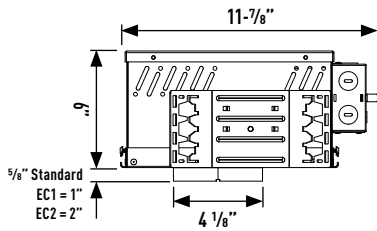


# MXG2DRTR

3.5" MX G2 LED Downlight

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## NON-IC & AIR TIGHT IC DIMENSIONS

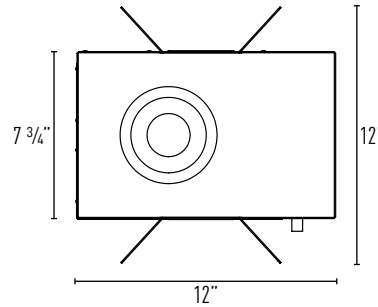
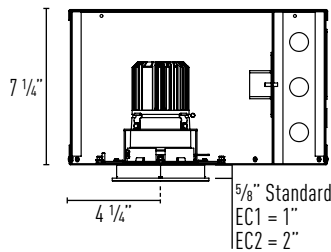


### Plaster Frame Accommodation

Standard	Up-to 5/8"
EC1	Up-to 1"
EC2	Up-to 2"

Ceiling Cut Out: 4 1/8"

## CCEA CHICAGO PLENUM DIMENSIONS



### Plaster Frame Accommodation

Standard	Up-to 5/8"
EC1	Up-to 1"
EC2	Up-to 2"

Ceiling Cut Out: 4 1/8"

## ACCESSORIES:

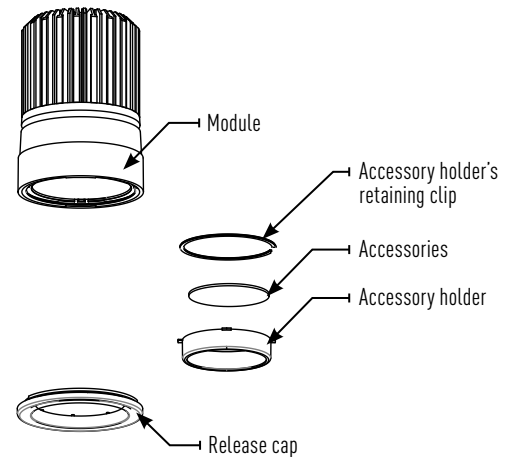
Luminaire will accommodate (2) accessories, accessory holder required.

## INSTALLATION:

1. Rotate release cap by turning counter clockwise.
2. Install accessories into accessory holder and replace accessory holder's retaining clip.
3. Place accessory holder and accessory flush against optic and replace release cap.

## Accessories

LH47	(Accessory Holder, Black)
LH47W	(Accessory Holder, White)
PFLMB-47	(Hex Louver, Black)
PFL1-47	(Prismatic Spread Lens)
PFL2-47	(Linear Spread Lens)
PFL4-47	(Soft Focus Lens)

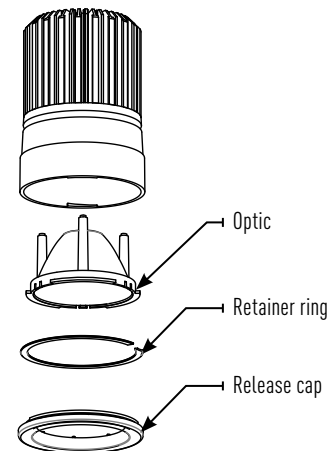


## OPTICS REPLACEMENT

1. Rotate release cap by turning counter clockwise.
2. Install accessories into accessory holder and replace accessory holder's retaining clip.
3. Place accessory holder and accessory flush against optic and replace release cap.

## Optics

IP-OP4712	(12° Spot)
IP-OP4724	(24° Narrow Flood)
IP-OP4736	(36° Flood)
IP-OP4750	(50° Wide Flood)



<b>JOB NAME</b>		<b>CATALOG NUMBER</b>	
<b>NOTES</b>		<b>TYPE</b>	

## MXTG2-RTRD300WL0

Report #: ILL-01262016-37 (12)  
 ILL-01262016-40 (24)  
 ILL-01262016-43 (36)  
 ILL-01262016-46 (50)

### MXTG2-RTRD300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 1.00)  
 1" Thickness (x 0.90)  
 2" Thickness (x 0.80)

### MXTG2-RTRR300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 0.90)  
 1" Thickness (x 0.77)  
 2" Thickness (x 0.63)

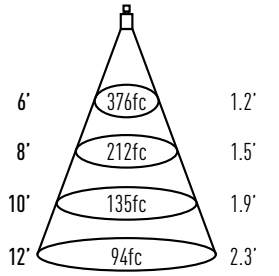
### CCT MULTIPLIERS:

	82 CRI	92 CRI
2700K	(x 0.93)	(x 0.76)
3000K	(x 1.00)	(x 0.87)
3500K	(x 1.00)	(x 0.87)
4100K	(x 1.00)	(x 0.87)

### EMERGENCY MULTIPLIER:

7W Emergency (x 0.70)

### 12° Spot (12)

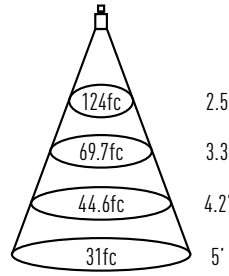


Watts: 10  
 Lumens: 779  
 LPW: 78  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	13539
5°	7504
15°	565
25°	95
35°	34
45°	6

### 24° Narrow Flood (24)

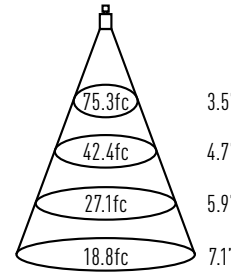


Watts: 10  
 Lumens: 863  
 LPW: 86  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	4461
5°	3947
15°	1373
25°	226
35°	25
45°	3

### 36° Flood (36)

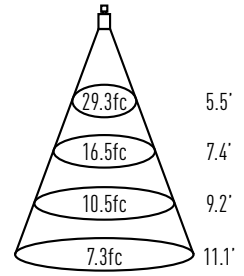


Watts: 10  
 Lumens: 955  
 LPW: 96  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	2712
5°	2738
15°	1615
25°	448
35°	70
45°	6

### 50° Wide Flood (50)



Watts: 10  
 Lumens: 837  
 LPW: 84  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	1055
5°	1115
15°	991
25°	573
35°	222
45°	56

## MXTG2-RTRD300WL1

Report #: ILL-01262016-13 (12)  
 ILL-01262016-16 (24)  
 ILL-01262016-19 (36)  
 ILL-01262016-22 (50)

### MXTG2-RTRD300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 1.00)  
 1" Thickness (x 0.90)  
 2" Thickness (x 0.80)

### MXTG2-RTRR300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 0.90)  
 1" Thickness (x 0.77)  
 2" Thickness (x 0.63)

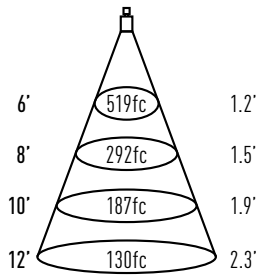
### CCT MULTIPLIERS:

	82 CRI	92 CRI
2700K	(x 0.93)	(x 0.76)
3000K	(x 1.00)	(x 0.87)
3500K	(x 1.00)	(x 0.87)
4100K	(x 1.00)	(x 0.87)

### EMERGENCY MULTIPLIER:

7W Emergency (x 0.50)  
 12W Emergency (x 0.85)

### 12° Spot (12)

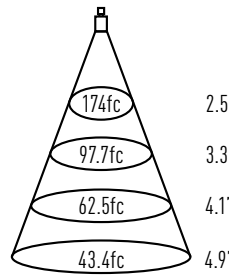


Watts: 15.6  
 Lumens: 1083  
 LPW: 69  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	18687
5°	10403
15°	794
25°	127
35°	48
45°	8

### 24° Narrow Flood (24)

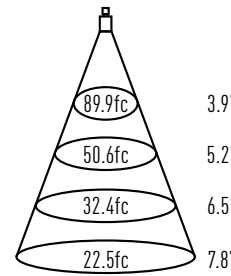


Watts: 15.6  
 Lumens: 1199  
 LPW: 77  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	6250
5°	5532
15°	1904
25°	317
35°	32
45°	4

### 36° Flood (36)

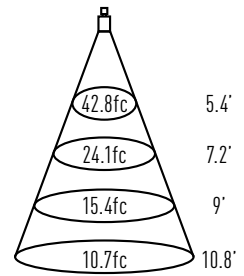


Watts: 15.6  
 Lumens: 1327  
 LPW: 85  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	3235
5°	3228
15°	2163
25°	707
35°	135
45°	14

### 50° Wide Flood (50)



Watts: 15.6  
 Lumens: 1172  
 LPW: 75  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	1540
5°	1624
15°	1411
25°	789
35°	301
45°	77

<b>JOB NAME</b>		<b>CATALOG NUMBER</b>	
<b>NOTES</b>		<b>TYPE</b>	

## MXTG2-RTRD300WL2

Report #: ILL-01262016-25 (12)  
 ILL-01262016-28 (24)  
 ILL-01262016-31 (36)  
 ILL-01262016-34 (50)

### MXTG2-RTRD300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 1.00)  
 1" Thickness (x 0.90)  
 2" Thickness (x 0.80)

### MXTG2-RTRR300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 0.90)  
 1" Thickness (x 0.77)  
 2" Thickness (x 0.63)

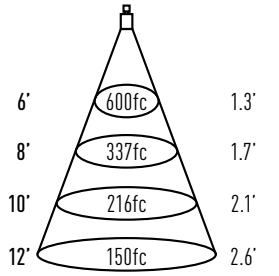
### CCT MULTIPLIERS:

	<b>82 CRI</b>	<b>92 CRI</b>
2700K	(x 0.93)	(x 0.76)
3000K	(x 1.00)	(x 0.87)
3500K	(x 1.00)	(x 0.87)
4100K	(x 1.00)	(x 0.87)

### EMERGENCY MULTIPLIER:

7W Emergency (x 0.40)  
 12W Emergency (x 0.68)

### 12° Spot (12)

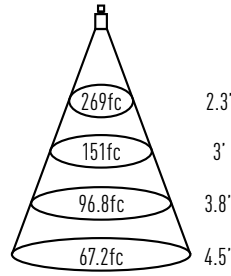


Watts: 20.4  
 Lumens: 1354  
 LPW: 66  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	21591
5°	13700
15°	796
25°	173
35°	68
45°	11

### 24° Narrow Flood (24)

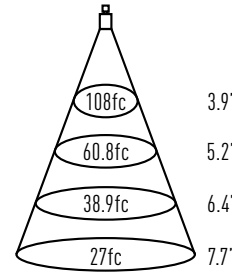


Watts: 20.4  
 Lumens: 1533  
 LPW: 75  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	9680
5°	8164
15°	2346
25°	275
35°	33
45°	5

### 36° Flood (36)

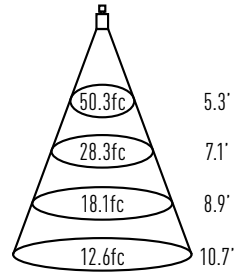


Watts: 20.4  
 Lumens: 1558  
 LPW: 76  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	3894
5°	3806
15°	2527
25°	828
35°	166
45°	15

### 50° Wide Flood (50)



Watts: 20.4  
 Lumens: 1353  
 LPW: 66  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	1809
5°	1894
15°	1633
25°	908
35°	346
45°	88

## MXTG2-RTRD300WL3

Report #: ILL-01262016-10 (12)  
 ILL-01262016-07 (24)  
 ILL-01262016-01 (36)  
 ILL-01262016-04 (50)

### MXTG2-RTRD300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 1.00)  
 1" Thickness (x 0.90)  
 2" Thickness (x 0.80)

### MXTG2-RTRR300

Ceiling Thickness Multipliers:  
 5/8" Thickness (x 0.90)  
 1" Thickness (x 0.77)  
 2" Thickness (x 0.63)

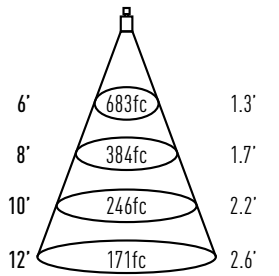
### CCT MULTIPLIERS:

	<b>82 CRI</b>	<b>92 CRI</b>
2700K	(x 0.93)	(x 0.76)
3000K	(x 1.00)	(x 0.87)
3500K	(x 1.00)	(x 0.87)
4100K	(x 1.00)	(x 0.87)

### EMERGENCY MULTIPLIER:

7W Emergency (x 0.35)  
 12W Emergency (x 0.59)

### 12° Spot (12)

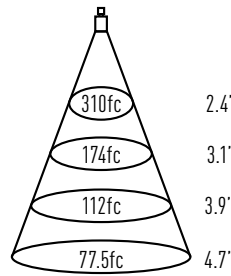


Watts: 26.3  
 Lumens: 1571  
 LPW: 60  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	24594
5°	15787
15°	896
25°	196
35°	73
45°	13

### 24° Narrow Flood (24)

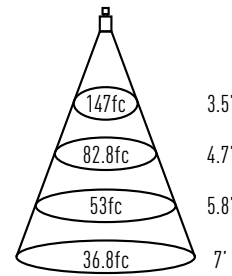


Watts: 26.3  
 Lumens: 1876  
 LPW: 71  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	11154
5°	9641
15°	2938
25°	345
35°	40
45°	6

### 36° Flood (36)

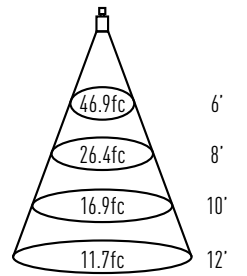


Watts: 26.4  
 Lumens: 1809  
 LPW: 69  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	5302
5°	5217
15°	3025
25°	821
35°	142
45°	14

### 50° Wide Flood (50)



Watts: 26.3  
 Lumens: 1457  
 LPW: 55  
 CCT: 3000K

#### Candelas at Nadir

Degree	CBCP
0°	1688
5°	1718
15°	1588
25°	999
35°	424
45°	121