

# MX MXRTR1

MX Recessed Multiple (1) Head with  
New Construction Frame-In



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

Catalog Number	System Wattage <sup>1</sup>	CCT / CRI <sup>2</sup>	Delivered Lumens <sup>3</sup>	Lumens Per Watt	CBCP <sup>3</sup>
<b>MXRTR1L13012</b>	14W	3000K / 82 CRI	700lm	51	11486
<b>MXRTR1L13024</b>	14W	3000K / 82 CRI	916lm	66	4600
<b>MXRTR1L13036</b>	14W	3000K / 82 CRI	954lm	69	2448

<sup>1</sup> System wattage includes total driver and LED module consumption

<sup>2</sup> CCT / CRI Multipliers

2700K / 82 CRI (x0.92), 2700K / 92 CRI (x0.74), 3000K / 82 CRI (x1.0), 3000K / 92 CRI (x0.8), 3500K / 82 CRI (x1.07), 4100K / 82 CRI (x1.08);

Crisp White 3000K (x0.85) & Class A 3500K (x0.96), see IES file for CBCP

<sup>3</sup> Data shown is per individual head

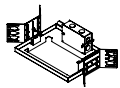
## Luminaire consists of two part numbers (Trim and Frame-In)

Trimless Order Matrix | Example: MXRTR1L13512WW

TRIM MODEL	WATTAGE PER HEAD	CCT / CRI	OPTIC	HEAD FINISH	FLANGE FINISH	DRIVER	VOLTAGE	OPTION
<b>MXRTR1</b>	L1 - 14 W	27 - 2700K / 82 CRI 279 - 2700K / 92 CRI 30 - 3000K / 82 CRI 309 - 3000K / 92 CRI 35 - 3500K / 82 CRI 41 - 4100K / 82 CRI CA35 - Class A 3500K CW30 - Crisp White 3000K	12 - 12° Spot 24 - 24° Narrow Flood 36 - 36° Flood	<b>B</b> - Black <b>W</b> - White Consult factory for special order finish	<b>B</b> - Black <b>W</b> - White	blank - Non-Dimming <b>DELV</b> - ELV Dimming <sup>2</sup> <b>D10</b> - 0-10V Dimming 10% <b>ED10V1</b> - eldoLED 0-10V 1% <b>ED10V01</b> - eldoLED 0-10V 0.1% <b>LUT1</b> - Lutron Hi-Lume 1% <b>LUT</b> - Lutron EcoSystem 1% <b>LUT5</b> - Lutron EcoSystem 5% <b>EDALI1</b> - eldoLED DALI 1% <b>EDALI01</b> - eldoLED DALI 0.1%	blank - 120V <b>27</b> - 277V	<b>-EM</b> - Remote Emergency <b>-S</b> - Integral 1" Snoot <sup>3</sup>

## Frame-In Order Matrix | Example: IP2-4FK-1-I200

Frame-In Kit + Trim Ordered Separately



### FRAME-IN TYPE

**IP2-4FK-1** - Non-IC  
**IP2-4FK-1IC** - Air Tight IC  
**IP2-4FK-1CP** - CCEA Chicago Plenum

### VOLTAGE

blank - 120V Input  
**27** - 277V Input

### OPTIONS

**-1100** - C-Channel Bar (pair)  
**-1200** - Flat Bar (pair)  
**-1400** - Wood Joist Bar (pair)  
**-EM** - Remote Emergency Unit

### Notes:

- Energy Star (82 CRI - 3000K, 3500K, 4100K only)
- ELV Dimming available in 120V only.
- Snoot is integral to fixture and factory installed. Snoot's interior is black and compatible with accessory holder, black accessory holder recommended.

### LED LIGHT ENGINE

- 2700K, 3000K, 3500K and 4100K / 82 CRI
- Class A - 3500K, provides color points with a combined GAI and CRI metric
- Crisp White - 3000K, vibrant whites and naturally saturated, warm colors combined with high CRI
- 2700K and 3000K / 92 CRI (R9 Value = 59)
- 2 Step MacAdam (2 SDMC)
- LED mounted to die-cast / extruded aluminum heat sink
- Rated life of 50,000 hours L70 based on LED testing per LM-80-08 and projected values using IESNA TM21-11

### OPTICS

- 12° Spot, 24° Narrow Flood, and 36° Flood
- Up to 30° Vertical Adjustment
- 360° Horizontal Adjustment

### ELECTRICAL

- Electrical constant current LED driver
- Over voltage, over current and short circuit protection
- 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.
- Power factor >.9, 50/60Hz
- Multiple dimming options available

### FRAME-IN (MUST ORDER SEPARATELY)

Frame-in 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. Frame-in is equipped with quick connect to trim assembly for easy installation. Junction box is accessible from below the ceiling.

### INSTALLATION

Luminaire can accommodate up to 1" ceiling thickness. Luminaire is supplied with butterfly brackets to allow up-to 3" vertical adjustment. Compatible with C-channel, flat bar, wood joist bar and EMT. Bar hangers must be ordered separately. C-channel are recommended for T-bar ceilings. Max. ambient temperature: 122°F (50°C).

### TRIM ASSEMBLY

Trim assembly includes integral power supply for each individual head. Quick connection supplied for easy installation and wiring to frame-in. Ease of installation and maintenance with access to power supply. Mounts to frame-in via heavy duty torsion springs.

### EMERGENCY

Emergency driver operates LED load of up to 7.0 watts at a nominal 450 lumens for a minimum of 90 minutes. See submittal sheet IB-BSL17C-C2 for specifications.

### LISTING/WARRANTY

- ETL listed to US and Canadian standards for damp locations.
- 10-Year Intense LED Limited Warranty
- ENERGY STAR® Qualified



### ACCESSORIES

Luminaire will accommodate up to two accessories per head, accessory holder required. Must order one accessory holder and accessory per head.

**LH47** Accessory Holder, Black  
**LH47W** Accessory Holder, White

**PFLMB-47** Hex Louver  
**PFL1-47** Prismatic Spread  
**PFL2-47** Linear Spread  
**PFL4-47** Soft Focus

Consult factory for additional media, available by special order

MULTIPLES LM-069-15P-1

Intense Lighting LLC | 3340. E La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com

Note: Specifications and dimensions subject to change without notice.

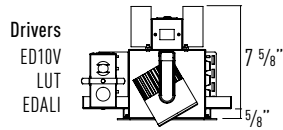
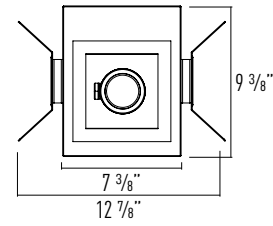
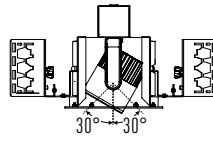
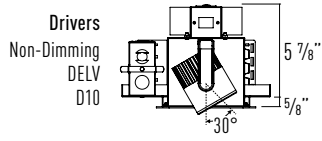


# MX MXRTR1

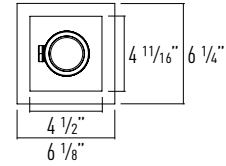
MX Recessed Multiple (1) Head with  
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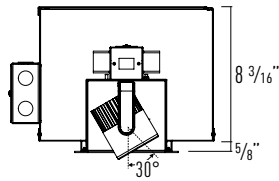
## NON-IC DIMENSIONS



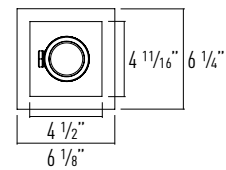
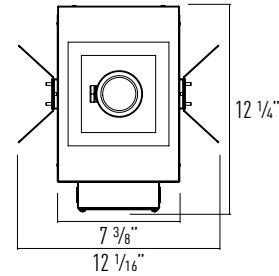
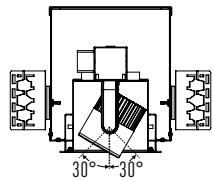
Ceiling Cut Out: 5 1/2" x 5 1/2"



## IC AIR TIGHT & CCEA CHICAGO PLENUM DIMENSIONS

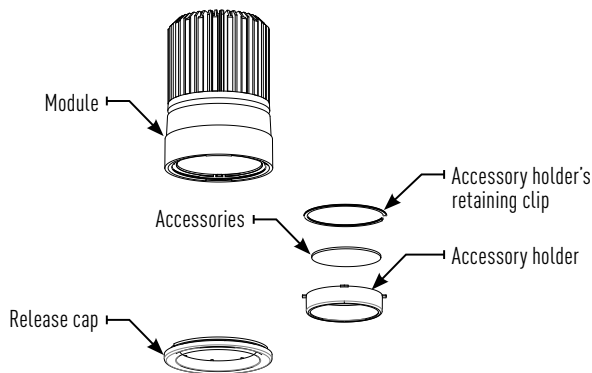


Ceiling Cut Out: 5 1/2" x 5 1/2"



## ACCESSORY INSTALLATION:

1. Remove module from channel and disconnect quick connect.
2. Rotate release cap by turning counter clockwise.
3. Install accessories into accessory holder and replace accessory holder's retaining clip.
4. Place accessory holder and accessory flush against optic and replace release cap.



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NOTES		TYPE	

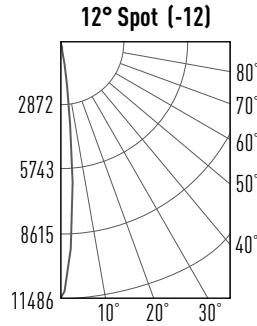
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Report #: L09135602 (12)  
L09135601 (24)  
L09135603 (36)

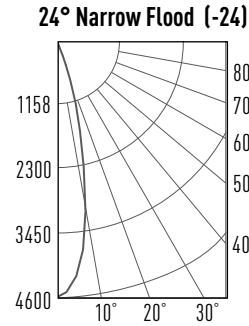
### CCT / CRI Multipliers:

2700K / 82 CRI (x 0.92)  
2700K / 92 CRI (x 0.74)  
3000K / 82 CRI (x 1.00)  
3000K / 92 CRI (x 0.8)  
3500K / 82 CRI (x 1.07)  
4100K / 82 CRI (x 1.08)

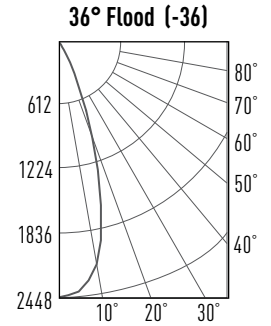
Crisp White 3000K / 90 CRI (x0.85)\*  
Class A 3500K / 90 CRI (x0.96)\*  
\* Lumens only, see IES file for candelas



Watts: 13.9  
Lumens: 700  
LPW: 51  
CCT: 3000K



Watts: 13.9  
Lumens: 916  
LPW: 66  
CCT: 3000K



Watts: 13.9  
Lumens: 954  
LPW: 69  
CCT: 3000K

**Photometric Data shown is compiled per head. For multi-light photometrics consult factory.**

Candelas at Nadir	
Degree	Candela
0°	11486
5°	6329
15°	379
25°	95
35°	41
45°	31

Candelas at Nadir	
Degree	Candela
0°	4600
5°	4117
15°	1401
25°	223
35°	45
45°	16

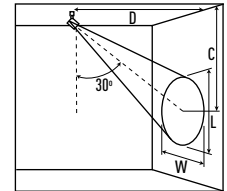
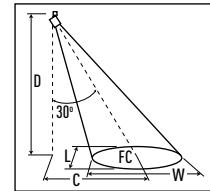
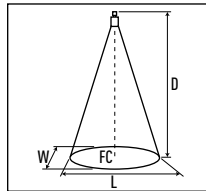
Candelas at Nadir	
Degree	Candela
0°	2448
5°	2346
15°	1473
25°	486
35°	116
45°	27

### APPLICATION DATA:

**W** and **L** are the outer points where the candle power drops to 50% of maximum. **FC** are the initial foot candles at the center of the beam.

- W** Beam width
- L** Beam length
- C** Distance to center of beam
- D** Distance
- FC** Foot candles

Illuminated width & length are based upon point at which illuminance falls to 50% of center illuminance. Recommended spacing is based upon uniform illuminance aiming angle is the angle between the lamp axis and the perpendicular to the illuminated plane.



	0° HORIZONTAL				30° HORIZONTAL				30° VERTICAL					
	D	FC	W	L	D	C	FC	W	L	D	C	FC	W	L
<b>MXRTR1L13012</b> 12° Spot	5.0'	459	0.96	0.96	5.0'	2.75	296	1.27	1.1	3.0'	5	169	1.12	2.09
	7.5'	204	1.44	1.44	7.5'	4.25	133	1.87	1.64	4.0'	6.5	95.3	1.47	2.78
	10'	115	1.93	1.93	10'	5.75	74.6	2.5	2.19	5.0'	8.25	61	1.85	3.49
	12.5'	73.5	2.41	2.41	12.5'	7	47.8	3.13	2.74	6.0'	9.75	42.3	2.22	4.18
<b>MXRTR1L13024</b> 24° Narrow Flood	5.0'	184	2.09	2.09	5.0'	2.5	125	2.52	2.27	3.0'	4	89	2.05	3.13
	7.5'	81.8	3.13	3.13	7.5'	3.75	55.6	3.77	3.39	4.0'	5.25	50.1	2.71	4.17
	10'	46	4.18	4.18	10'	5	31.3	5.02	4.53	5.0'	6.5	32	3.39	5.24
	12.5'	29.4	5.22	5.22	12.5'	6.5	20	6.29	5.68	6.0'	8	22.3	4.1	6.29
<b>MXRTR1L13036</b> 36° Flood	5.0'	97.9	3.08	3.08	5.0'	2.25	70	3.37	3.11	3.0'	3.25	60.4	2.54	3.36
	7.5'	43.5	4.61	4.61	7.5'	3.25	31.1	5.06	4.66	4.0'	4.5	34.1	3.45	4.45
	10'	24.5	6.15	6.15	10'	4.5	17.5	6.75	6.23	5.0'	5.75	21.8	4.22	5.58
	12.5'	15.7	7.69	7.69	12.5'	5.5	11.2	8.43	7.78	6.0'	6.75	15.2	5.05	6.7

# DIMMING COMPATIBILITY

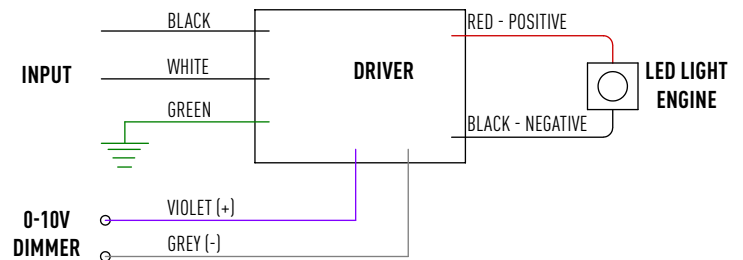
JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## 0-10V DIMMING (10% Dimming, eldoLED 1%, eldoLED 0.1%)

- 120V/277V
- Dims down to 10% light output
- Consult dimming manufacturer for installation instructions and power packs

### COMPATIBLE DIMMERS

Manufacturer	Part Number(s)
HUNT	PS-010-IV-120V, PS-010-WH-120V, PS-010-3W-IV-120, PS-010-3W-WH-120V, PS-010-IV-277V, PS-010-WH-277V, PS-010-3W-IV-277V, PS-010-3W-WH-277V, FD-010: PS-IFC-010-IV, PS-IFC-010-WH-120/277V, FD-010: PS-IFC-010-3W-IV, PS-IFC-010-3W-WH-120/277V, FD-010-120V, FD-010-277V
Leviton	Leviton Centura Fluorescent Control System, IllumaTech™ IP7 Series, DPSPE-212
Lightolier	ZP600FAM120, MP1500FAM120, V2000FAMU
Lithonia	LEQ BC, LEQ LVBC, SLD LVBC, SQ1DC
Lutron	DVTV, NTFTV
Synergy	ISD BC 120/277

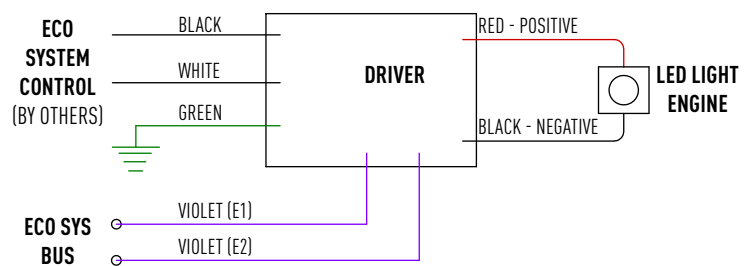


## LUTRON ECOSYSTEM® DIMMING

- 120V or 277V
- Dims down to less than 1% or 5% light output
- Consult dimming manufacturer for installation instructions

### COMPATIBLE DIMMERS

Product	Part Number(s)
EcoSystem	CS-1L-WM, CS-2L-WM, CS-1L-CM, CS-2L-CM, EcoSystem ESN, Grafik Eye QS with EcoSystem, Quantum



## LUTRON HI-LUME® DIMMING

- 120V or 277V
- Dims down to less than 1% light output
- Consult dimming manufacturer for installation instructions

### COMPATIBLE DIMMERS

Product	Part Number(s)
NovaT	NTF-10, NTF-103P, NTF-103P-277, NTF-10-277
Nova	NF-10, NF-103P, NF-103P-277, NF-10-277
Vareo	VF-10
Skylark	SF-10P, SF-12P-277, SF-12P-277-3, SF-103P
Diva	DVF-103, DVF-103P-277, DVSCF-103P, DVSCF-103P-277
Ariadni	AYF-103P, AYF-103P-277
Vierti	VTF-6AM
Maestro	MAF-6AM, MAF-6AM-277, MSCF-6AM, MCSF-6AM-277
Maestro Wireless	MRF2-F6AN-DV
Spacer System	SPSF-6A, SPSF-6A-277, SPSF-6AM, SPSF-6AM-277
Lyneo	LXF-103PL, LXF-103PL-277
Radio RA 2	RRD-F6AN-DV
HomeWorks QS	HQRD-F6AN-DV

