MODULED® MATRIX™

MODULAR LIGHTING BY LITON

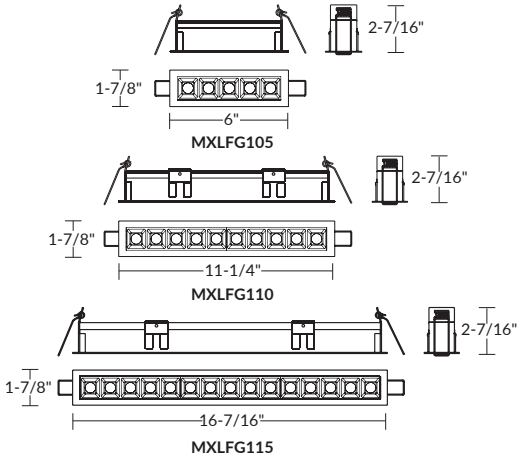
TYPE _____ PROJECT _____

CATALOG# _____

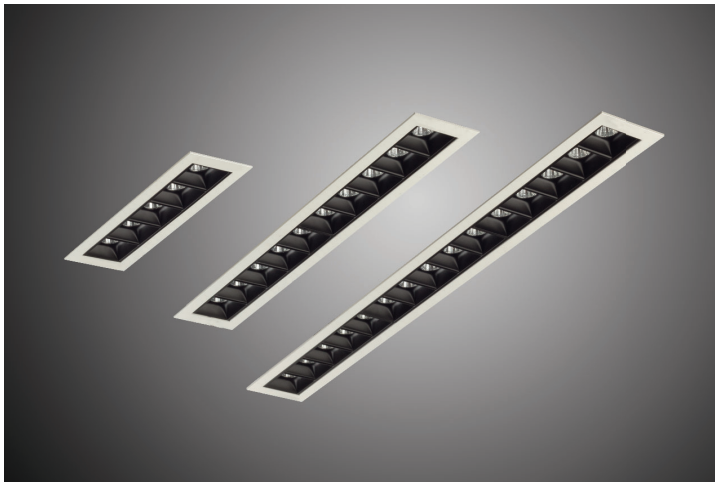
MXLFG1-105/1-110/-115

FLANGED DOWNLIGHT, MINIATURE LINEAR LED

- Competitively priced flanged modular design
- 2700K, 3000K, 3500K, and 4000K CCT
- 1000-3000 delivered lumens (11W-33W)
- Dimming down to 1%*
- Insulation Contact (IC) rated
- (-WL) Wet Location option



Matrix recessed linear wall washes and downlights are an aesthetic and performance upgrade from traditional linear fluorescent lighting with their high efficiency, and visual comfort. Matrix is available in flanged, trimless, and adjustable configurations from 1 to 15 cells to bring elegance and flexibility in a variety of lighting applications..
IC rated housing rated for direct contact with low to medium density loosefill blown and rolled insulation.



Damp Location | IC Rated | US Assembled | Wet Location | Dedicated LED | Downlight | Intertek | 120V | 277V | Title 24 JA-8

Ordering Example: MXLFG1-115ICBWUE-D10-B30-T27-WL

MXLFG1-115

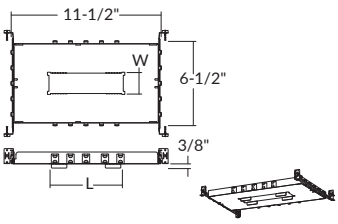
Driver/Frame | IC Option | Cell Finish | Trim Finish | Dimming | Beam Spread | CCT | Options

Driver/Frame		IC Option		Cell Finish		Dimming		Beam Spread		CCT		OPTIONS	
5-Cell, 1000lm (11W)	**MXLFG1-105**	Non-IC	**Blank**	Black	**B**	0-10V Dimming (120V/277V)	**UE-D10**	15° Narrow Spot	**-B15**	2700K, 90 CRI	**-T27**	None	**Blank**
10-Cell, 2000lm (22W)	**MXLFG1-110**	Insulation Contact (IC) Rated	**IC[1]**	White	**W**	2-Wire INC/ 3-Wire ELV (120V)	**-DIN***	30° Narrow Flood	**-B30**	3000K, 90 CRI	**-T30**	Emergency Backup	**-EMAC**
15-Cell, 3000lm (33W)	**MXLFG1-115**			Silver	**S**			40° Flood	**-B40**	3500K, 90 CRI	**-T35**	Wet Location	**-WL[2]**
				Custom	**CSTM**					4000K, 90 CRI	**-T40**		
				Trim Finish									
				Black	**B**								
				White	**W**								

2023.07.31

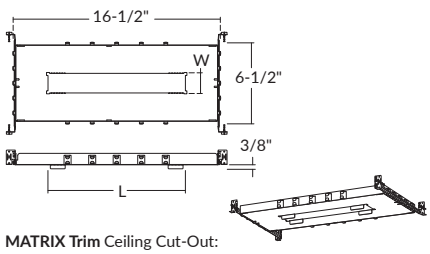
ACCESSORIES

MXL105-FRM



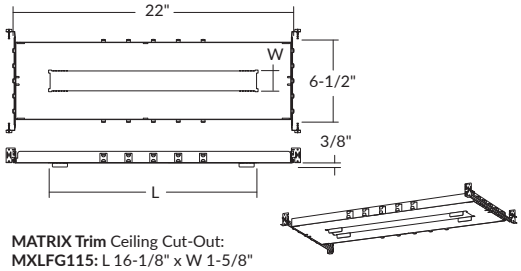
MATRIX Trim Ceiling Cut-Out:
MXLFG105: L 5-11-16" x W 1-5/8"
MXLTS105: L 5-15/16" x W 1-11/16"

MXL110-FRM



MATRIX Trim Ceiling Cut-Out:
MXLFG110: L 10-7/8" x W 1-5/8"
MXLTS110: L 11-1/8" x W 1-11/16"

MXL115-FRM



MATRIX Trim Ceiling Cut-Out:
MXLFG115: L 16-1/8" x W 1-5/8"
MXLTS115: L 16-3/8" x W 1-11/16"

[1]For (IC) rated, (MXLFG1-110) is 20W maximum, and (MXLFG1-115 is 28W maximum.
[2]IP65 Special Order.
*Tested with Lutron Skylark SELV-300P & Maestro MAELV-600 Dimmers.

MXLFG1-105/1-110/1-115
FLANGED DOWNLIGHT, MINIATURE LINEAR LED

SPECIFICATION

Applications
Matrix recessed linear wall washes and downlights are available in flanged, trimless, and adjustable configurations from 1 to 15 cells, to bring quiet elegance and contemporary sophistication to governmental, educational, commercial, hospitality and retail lighting applications.

Housing
Extruded aluminum with flanged trim in black, white, or silver high-quality powder coat finish for maximum durability. Custom colors are available. Contact factory. Torsion spring clips at each end of the housing secure the fixture to sheetrock ceiling. IC rated housing rated for direct contact with low to medium density loosefill blown and rolled insulation.

Reflectors
A series of 1.4" square cells hold single LED diodes that provide excellent visual cut off with a very comfortable Unified Glare Rating (UGR) of less than 10. Cell Finish is available in black, white or silver finish. Custom colors are available. Contact factory.

LED Details
Color Temperature - Osram LEDs are binned to 3-step MacAdam ellipses within the ANSI C78 377A standard for color temperature and chromaticity ranges light binning allowance. 90 CRI standard.

Lumen Maintenance - Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Dimming Details
Driver - Externally mounted. Highly efficient 24V DC with a power factor up to 0.99. 120V/277V AC for any residential or commercial applications.

Dimming - Superior PWM dimming technology compatible with many models of Triac, ELV, and 0-10V forward and reverse phase dimmers, and on/off switches.

(UE-D10) 0-10V dimming option dims down to 1% and works with most 120V/277V 5-wire, 0-10V dimmers.

(-DIN) dimming option smoothly dims down to 10% of initial light output with flicker-free performance when tested with Lutron Skylark SELV-300P and Maestro MAELV-600 dimmers. Works with standard 120V incandescent dimmers.

Thermal Management - Effective thermal management facilitated by integral extruded aluminum heat sink design for maximum heat dissipation to provide long LED life.

Emergency Option
Emergency LED Battery Back-up available, remotely mounted adjacent to housing by installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. (-EMAC) is not wet location rated, and must be mounted in a dry area.

Certifications and Listings
ETL/cETL listed to UL1598 and UL8750. Suitable for dry and damp locations. NYC approved: Calendar #41937. Insulation Contact (IC) rated housing rated for direct contact with loosefill blown and rolled insulation. Optional IP65 **(-WL) Wet Location** option is suitable for wet locations, ***covered ceiling only.*** California Energy Commission (CEC) Approved as High Efficacy under Title 24/JA8. (MXLFG1-105, MXLFG1-110, MXLFG1-115)

Warranty
Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C. Installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Accessories
MXL1XX-FRM - New Construction Frame (Round). Suitable for new construction and remodel installations. Adjusts up to 1" ceiling thickness. Supplied with (2) 24" adjustable hanger bars with nail-less install 3/4" serrated barbed studs for mounting in wood joists.

MXL105-FRM: 11-1/2" x 6-1/2" x 3/8"
MXL110-FRM: 16-1/2" x 6-1/2" x 3/8"
MXL115-FRM: 22" x 6-1/2" x 3/8"

Title 24/JA8 Compliant
TITLE 24 JA-8
Title 24 JA-8

MXLFG1-105
MXLFG1-110
MXLFG1-115