MODULED® MATRIX™

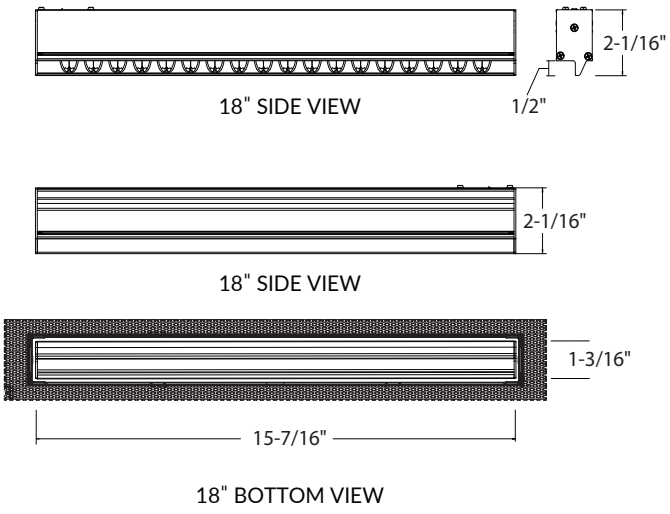
MODULAR LIGHTING BY LITON

TYPE _____ PROJECT _____

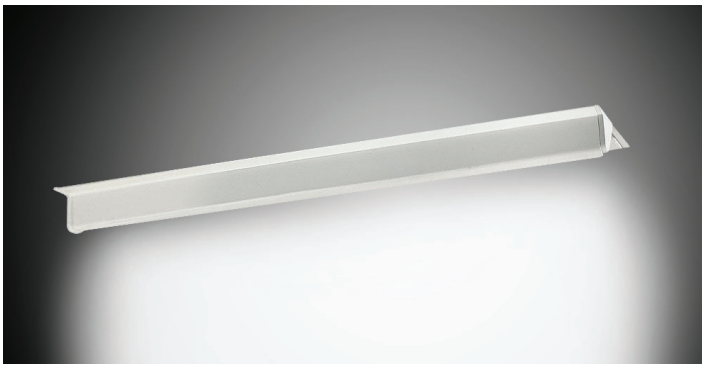
CATALOG# _____

MXLTS1-718

TRIMLESS WALLWASH, MINIATURE LINEAR LED



Matrix MXLTS-718 linear wall washer illuminates or grazes wall surfaces. Consistent with other Matrix downlight fixtures, the 3/8" valance conceals the reflector and distributes all light output towards any vertical surface. Our unique 'shell' optic provides powerful and even illumination from ceiling to floor with no artifacts. The rectangular shape provides a clean aesthetic. The trimless configuration creates a 'fixture-less' effect. The wet location option opens the possibility of grazing exterior walls or doors/entries from an overhang.



Ordering Example: MXLTS1-718ICWBUE-D10-B30-T30

MXLTS1-718

Driver/Frame | IC Option | Shell Finish | Trim Finish | Dimming | CCT | Options

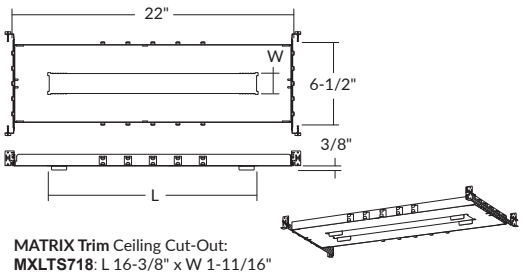
Driver/Frame		Shell Finish		Dimming		CCT		Options	
18 Shell (22W)	**MXLTS1-718**	Black	**B**	0-10V Dimming (120V/277V)	**UE-D10**	3000K, 90 CRI	**-T30**	None	**Blank**
		White	**W**	2-Wire INC/ 3-Wire ELV (120V)	**-DIN**	3500K, 90 CRI	**-T35**	EM Battery Backup	**-EMAC**

IC Option		Trim Finish	
Non-IC	**Blank**	Black	**B**
Insulation Contact Rated	**IC**	White	**W**

2023.12.20

ACCESSORIES

MXL115-FRM



MATRIX Trim Ceiling Cut-Out:
MXLTS718: L 16-3/8" x W 1-11/16"

SPECIFICATION

Applications

18-Cell recessed linear wall wash in flanged, and trimless configurations brings 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.

Shell Optics

Wall Wash fixtures use proprietary shell-shaped reflectors designed to project an asymmetric distribution. A combination of high performance optical elements with integral thermal management and multiple free-form reflective surfaces provide a smooth gradient on vertical surfaces from floor to ceiling, free from shadows, lines and other near-field artifacts. ModuLED incorporates this technology into recessed linear fixtures concealed by a miniscule 3/8" reveal to provide a superior wall wash effect with a high degree of visual comfort.

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. **Wet Location** option is suitable for wet locations, ***covered ceiling only.***

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

MXL115-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. Dimensions: 22" x 6-1/2" x 3/8".

PHOTOMETRY - WALL WASH

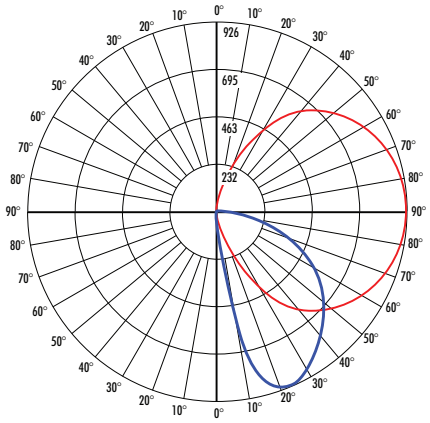
MXLTS1-718 (900lm, 26W, Wall Wash, 3000K)

Input Voltage:	120V
System Power:	26.73W
Test Date:	12/2023
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	883
CBCP:	923.72
Power Factor:	0.99

MULTIPLIERS

CCT	
3000K :	1.00
3500K :	1.04

CANDELA TABULATION



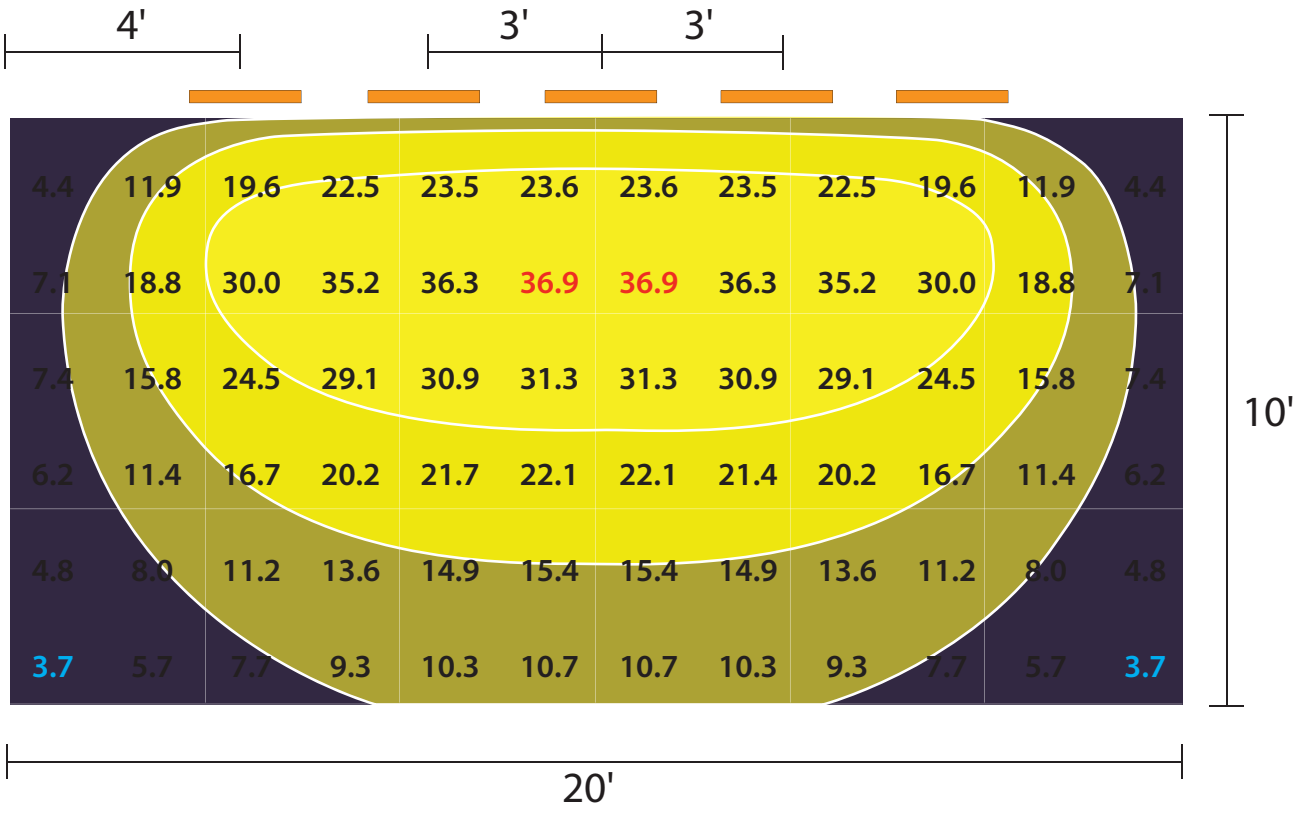
PERFORMANCE DATA

LUMINAIRE SPACED 4' FROM WALL

Footcandles On Wall

8.0 fc 15.0 fc 25.0 fc

4 ft. set back



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