



MAL404, MAL4041

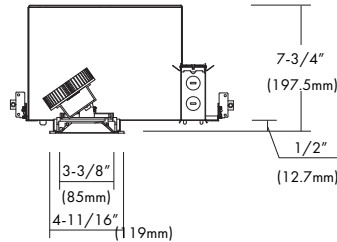
120-277VAC Square 3.5" X 3.5" Recessed Fixture, LED COB Chip

Catalog		Type
Project		Date
Prepared by		

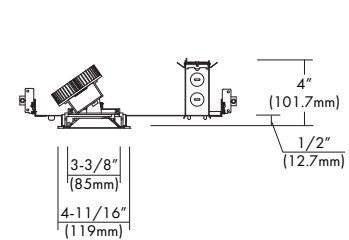
3.5" LED-SQUARE



MAL404
[IC Rated Housing]



MAL4041
[Non-IC Rated Housing]



Ceiling Cut-out : 4-3/8" (111mm) SQ
Mounting Frame : 12-1/8" (307.3mm) x 7-5/8" (193.8mm)

DESCRIPTION

The MAL404 Series, Square 3.5" X 3.5" fixture is designed for accent lighting and is provided with a solid state LED engine with integrated aluminum heat sink. The dual reflector system provides excellent cutoff. The electronic, Universal driver is isolated for reliability on the junction box and can be accessed from below the ceiling. Offered in four wattages, 10W, 14W, 23W and 30W. These luminaires are rated LM70 life of 50,000 hours and has high efficacy for long term energy savings. Suitable for Wet Locations.

DESIGN FEATURES

Junction Box

- Listed for through branch circuit wiring. (Max.8 No 12 AWG 90°C branch circuit conductors.)
- (5)1/2" knockouts with pry-out slots and (4) knockouts for Romex cable clamp.
- Ground wire provided on J-box.

Mounting Channel Bracket

- Commercial mounting kit provides up to 5" vertical adjustment for accommodates 1/2" EMT conduit, optional HBC-24 bar hanger or lathing channels for T-bar grid or concealed spline ceiling.

Heat Sink

- The aluminum heat sink was computer designed with simulation software to quickly distribute the heat away from the LED module to reduce the LED junction temperature in order to maintain constant light output, color and life of electronic components.

Trims

- See "Trims" spec sheet for selection or ordering information.

Optic

- Precisely designed Inner Reflector attaches to the LED module to provide precise beam control and reduces glare for even illumination.
- Glass Lens: Translucent tempered glass provides high lumen transmission and diffusion

LED Engine

- COB (Chip on board) LED package.
- Aluminum clad PC board is used to dissipate the heat away from the LED module for cooler operation.
- Lumen Maintenance: L70/50, 70% lumens/50,000 hours

LED Power Supply Driver

- Universal, 120~277V input, high efficacy drivers with dimming capability by ① a Triac 120V low voltage electronic dimmer switches or ② 0-10V, Triac & ELV dimmer switches.
- Drivers feature power factor >.90, THD <20% with integral thermal protection to sense over temperature or electrical issues.
- Driver installed on junction box door for easy access below ceiling.

Limited Warranty

- LED Module: 5 years/50K hours
- Product/Driver: 5 years

Listing

- cETLus Wet Location

Test Specification				
[MAL404-xx-Z MTL404-ST-HC-WH]				
LED Quantity	1 EA (COB)			
Input Voltage	120V or 277V			
Wattage (+/-5%)	10W	14W	23W	30W
Nominal Lumens	1,000	1,400	2,300	3,000
Delivered Lumen (+/-5%)	850	1,070	1,600	2,630
Efficacy (LPW) (+/-5%)	85	76.4	69.6	87.7
Luminaire Beam	36°	36°	42°	48°
CCT (Color +/-5%)	2700K, 3000K, 3500K, 4000K			
CRI (Typical)	80, 90			
Dimming	0~10V, ELV & TRIAC Optional Lutron Drivers			
LED Module	5 yr or 50K hr			
Environment	Damp Location & *optional Wet Location			

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Trims:



MTL404ST
- Straight fixed Module

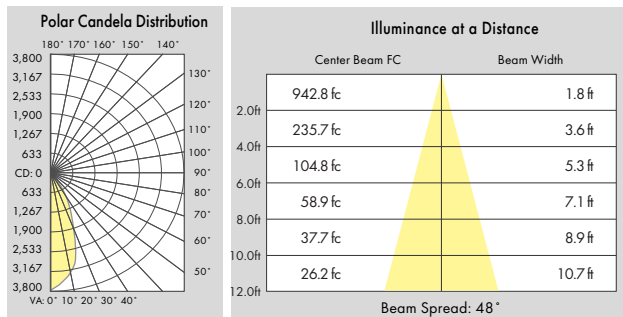
MTL404STD
- Straight fixed Deep Module

MTL404-AJ
- Angle cut reflector adjustable from 0° ~40° for accurate aiming with a screw driver from below ceiling. This allows easy, targeted illumination of desired areas.

MTL404-WW
- Wall Wash Reflector w/ Spread Lens

MTL404-SFL
- Shower Flat Frost Lens

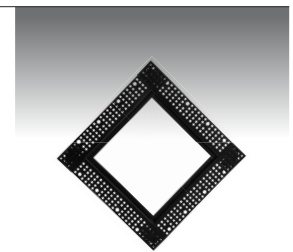
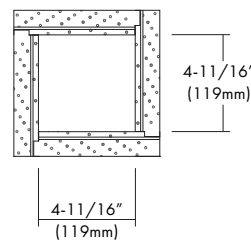
PHOTOMETRIC REPORT *



Trimless Option:

TL

[3.5" Square Flangeless Mud Frame]



Ordering Information

Model	-Watts	-CRI	Color Temp. *	Driver	Module	-Finishes*	Trim	Beam Angle
MAL404 = Square 3.5" X 3.5" IC Recessed Fixture	-10=10W -14= 14W -23= 23W	-8=80 CRI -9=90 CRI	27= 2700K 30= 3000K 35= 3500K 40= 4000K	Z =120-277V, with Triac, ELV & 0-10V Dimming L1D =Lutron Hi-Lume 1% Dimming L5D =Lutron Hi-Lume 5% Dimming **Optional EM for Non-IC Only EM = Emergency Battery Backup **MAL3031 Housing Only	MTL404-ST - Straight MTL404-STD - Straight Deep MTL404-AJ - Adjustable MTL404-WW - Wall Wash MTL404-SFL - Shower Flat Frosted Lens	Reflector: - HC = Haze Clear - WH = White	- WH = White - BK = Black - TL = Flangeless	Upper Reflector: NS = Narrow Spot 15° N = Narrow 24° M = Medium 38° W = Wide 60°

Example : MAL40411-14-830-Z

MTL-303-ST-HC-WH-M

* Consult factory for other Color Temperatures and Finishes