

M400R/MCLR4W

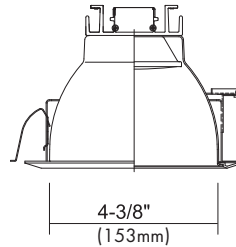
120V-277VAC LED 4", Non-IC, Remodel Frame-in Kit
Down Light with interchangeable Reflector Trims

Catalog		Type
Project		Date
Prepared		

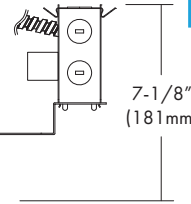
4" LED Remodel Frame-in Kit



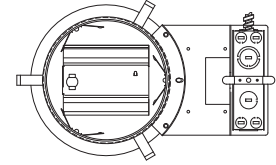
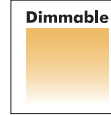
4-7/8"
(143.2mm)



4-3/8"
(153mm)



7-1/8"
(181mm)



11-5/8"
(295.7mm)

Ceiling Cut-out : 5"

DESCRIPTION

The **M400R/MCLR4W** is a 4" LED, Non-IC Remodel Frame-in kit and is available with multiple Trim styles. Designed for use in non-insulated ceilings, Insulation material must be kept a minimum of 3" from fixture. Available with a **10W, 14W & 23W** high efficacy LED engine and universal, dimmable drivers. The special optical diffuser produces high lumen transmission and even illumination. Suitable for Wet Locations.

DESIGN FEATURES

LED Module & Trim

- Painted, extruded aluminum heat sink designed to facilitate efficient heat dissipation for superior thermal management and reliability.
- LED engine includes LED, heat sink and lens assembly.
- Heavy gauge aluminum reflector anodized in clear haze or white paint finishes. Multiple trim styles and finishes are available.

LED 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 mounts externally to the module to allow future replacement or upgrading if desired.
- Optional Lutron Hi-lume A-Series, LED drivers and EcoSystem 5-Series LED drivers are available. Lutron drivers provide flicker-free, smooth, continuous dimming down to 1% for Hi-lume and 5% for EcoSystem. (Contact factory for dimming system requirements)

Remodel Clips

- 3 remodel clips secure housing into the ceiling and accommodates 1/2" and 5/8" ceiling materials.

Junction Box

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

Options

- Emergency battery back-up : Available in mounted to fixture or remote, adjacent to luminaire (consult with factory for space requirements).

Limited Warranty

- LED Module: 5 year Limited Warranty
- Product/Driver: 5 years

Listing

- cETLus Wet Location
- ENERGY STAR
- California Title 24

SPECIFICATION

Input Voltage	120-277VAC		
Wattage (+/-5%)	10W	14W	23W
Lumen (+/-5%)	1,160lm	1,400lm	2,277lm
Efficacy (LPW)	116lm/W	100lm/W	99lm/W
Beam Angle	67.2°	67.7°	69.3°
CRI (Typical)	80, 90		
CCT (Color +/-5%)	2700K, 3000K, 3500K, 4000K		
Dimming	0-10V, ELV & TRIAC Optional Lutron Drivers		
LED Module	5 yr/50K hr		
Environment	Wet Location		

Triac Approved Dimmers

- * Lutron: NovaT (Ntely 300 & 600)
Diva (Dvelv-300P & 303P)
- * Leviton: Acenti: Ate06-1Lw
- * Leviton Trimatron #705W (incandescent)

0-10V Approved Dimmers

- * Lutron: Nova® 0-10V : NTFTV
Diva® 0-10V : DVTV
- * Leviton: Decora 0-10V : IP710DL

Consult tech. service or factory
for additional dimmers

* Provided: Easy-quick connector case
(patent pending)



M400R/MCLR4W

120V-277VAC LED 4", Non-IC, Remodel Frame-in Kit
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4" LED Remodel Frame-in Kit

TRIM

* Wide beam reflector is standard. Also available narrow beam in reflector(consult with factory).



MCLR4W-HC
Specular Open Reflector

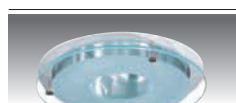
MCLR4W-B
Baffle w / Reflector

MCLR4W-BL
Baffle w /
Regressed Lens

MCLR4W-CL
Reflector w /
Regressed Lens

MCLR4W-HCW
Wall Wash w /
Reflector Plate

MCLR4W-DL
Reflector w /
Frosted Floating Lens

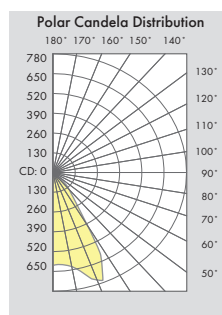


MCLR4W-DLC
Reflector with Frosted 3.5"
Center Hole Lens

* All trims are rated for damp location and regressed lens trims are wet location listed.

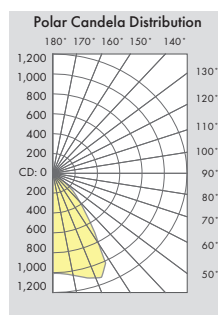
PHOTOMETRIC REPORT

* Contact Factory for IES File



[MCLR4-14-830-HC]

Illuminance at a Distance	
Center Beam FC	Beam Width
2.0ft	149.8 fc
4.0ft	37.4 fc
6.0ft	16.6 fc
8.0ft	9.4 fc
10.0ft	6.0 fc
	4.2 fc
	16.1 ft
Beam Spread: 67.7°	



[MCLR4-23-830-HC]

Illuminance at a Distance	
Center Beam FC	Beam Width
2.0ft	250.4 fc
4.0ft	62.6 fc
6.0ft	27.8 fc
8.0ft	15.6 fc
10.0ft	10.0 fc
12.0ft	7.0 fc
	16.6 ft
Beam Spread: 69.3°	

Ordering Information

Housing	-Watts	-CRI	Color Temp.**	Driver*	Trim	-Reflector Finish **	Baffle Finish for B & BL	Optional Metal Trim Ring Finish
M400R 4", Non-IC, Architectural Frame-in Down Light Kit	-10=10W -14=14W -23=23W	-8=80 -9=90	27=2700K 30=3000K 35=3500K 40=4000K	Z10 = 120/277V, 0-10V Dimming Z = 120/277V, Tri-Mode (0-10V/Triac/ELV) OLUTRON LDE1 = Hi-lume 1% EcoSystem Fade to Black Dimming LTE = Hi-lume 1% 2-Wire Dimming 120V PEQ01 = Hi-lume Premier 0.1% EcoSystem Fade to Black Dimming (For 23W or less only) * Option : Emergency (Non-IC only) -EM = Emergency Battery Backup	MCLR4 MCLR4-B MCLR4-BL MCLR4-CL MCLR4-HCW MCLR4-DL MCLR4-DLC	-HC= Haze Clear -WH= White Painted	-WH= White -BK= Black	-WH= White Plastic Trim Ring (Standard) -WMR= White Metal Ring -SN= Satin Nickel -CH= Chrome -SF= Polished Self-Flange

Example : M410-14-830-Z

MCLR4-HC-WH

** Consult factory for other Color Temperatures and Finishes