

DESCRIPTION

Halo LED 1200 Series Emergency Backup LED Modules are dual voltage (120V/277V) LED downlights for Non-IC normal and emergency backup applications. The Halo LED ML7128xxTUNVD010EM series modules are designed to provide Emergency lighting backup when used with H750TEM912 dedicated Non-IC housing that includes the LED Emergency Backup Driver. The ML7128xxTUNVD010EM series is dimmable in normal operation with 0-10V dimmers. The 0-10V dimming connection is prewired on the LED module and matches the 0-10V connection prewired in the H750TEM912 housing. Halo offers high quality downlighting with the high efficacy of LED – the result is great lighting and significant energy savings.

SPECIFICATION FEATURES

MECHANICAL

Heat Sink

Upper Heat Sink

- Durable extruded aluminum construction.
- Conducts heat away from the LED keeping the junction temperatures below specified maximums.

Lower Heat Sink

- Durable die-cast aluminum construction.
- Precision keyed bosses designed to lock with matching keyed slots in trim rings.
- Works in conjunction with the upper heat sink for heat conduction away from the LED.

MOUNTING

Torsion Springs

- Formed steel springs provide secure retention of the ML7 series of LED modules in 6" compatible housings with properly positioned and sized torsion bracket tabs.

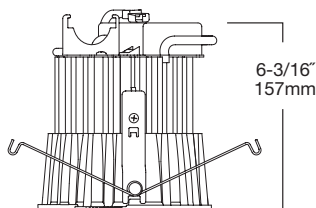
Compatibility

- The ML7128xxTUNVD010EM Series of LED modules are designed for use in the dedicated H750TEM912 Non-IC housings. The H750TEM912 includes emergency connection with the emergency battery backup LED driver installed on the housing, and a connection for the 0-10V dimming connector provided on the ML7128xxTUNVD010EM 1200 Series LED modules.

ELECTRICAL

LED Module Connections

Power: Halo LED module installs with a plug-in line voltage wiring connector (UL and CSA Listed Luminaire Disconnect). This non-screw-base connection preserves the high efficacy rating



and prevents use of low efficacy sources.

Note: ML7128xxTUNVD010EM LED series normal driver is 120V-277V Universal Voltage, however the Emergency Backup Driver is dual voltage only (120V/277V) as included on the H750TEM912 emergency housing.

Dimming:

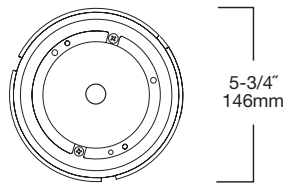
The ML7128xxTUNVD010EM series is dimmable in normal operation with compatible 0-10V dimmers. The 0-10V dimming connection is prewired on the LED module and matches the 0-10V connection prewired in the H750TEM912 housing. Two low voltage DC control wires - color coded violet and gray - provide connection to 0-10V DC low voltage dimming controls.

Emergency Backup:

The emergency connection is a plug-in wiring connector with mating connection between the H750TEM912 emergency housing and the ML7128xxTUNVD010EM series LED Emergency Modules.

LED Driver:

- For normal power operation the LED module has an integral high efficiency driver with a power factor of >.90 and 120V-277V Universal Voltage input power (90-305V), 50/60Hz. Driver has integral thermal protection in the event of over temperature or internal failure.
- Driver is rated 120V-277V Universal Voltage, however the Emergency Backup Driver is dual voltage only (120V/277V) as included on the H750TEM912 housing.



Catalog #		Type
Project		
Comments		Date
Prepared by		

Warranty

- Cooper Lighting provides a three year limited warranty on the Halo LED Luminaire which includes the LED Module, LED Recessed Housing and LED trims.
- As with any electrical installation, a qualified electrician must ensure compatibility of use with a particular electrical and ceiling system; this includes all applicable national and local electrical and building codes.

Compliance Labels

- UL/cUL Listed
- UL/cUL Damp Location Listed
- UL/cUL Wet Location, Protected Ceiling Listed and IP66 rated with designated trims
- RoHS Compliant
- Non-IC listed

Qualification

- Can be used to meet High Efficacy luminaire requirements (when used with designated trims):
 - ENERGY STAR® SSL
 - State of California Title 24 High Efficacy LED
 - International Energy Conservation Code (IECC) High Efficacy

Air-Tite™ Compliant

- Washington State Energy Code
- New York State Energy Conservation Construction Code
- Certified Under ASTM-E283



ML712835TUNVD010EM 1200 Series 3500°K LED Module with Emergency Backup and 0-10V DC Dimming Connections

**For Use With
H750TEM912
Emergency LED
Housing Only
and 493WBS06
494WB06 Trims**

**FOR USE IN NON-
INSULATED CEILING**

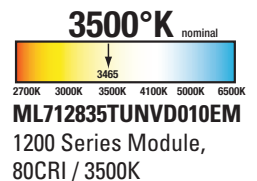
**High Efficacy LED
Housing**

Energy Data*

(Values at non-dimming line voltage)

Minimum Starting Temp:	-30°C (-22°F)
EM/RFI:	FCC Title 47 CFR, Part 18, Class B (Consumer)
Sound Rating:	Class A standards
*Input Voltage:	Dual 120V/277V in emergency applications
Power Factor:	>0.90
Input Frequency:	50/60Hz
THD:	<21%
Rated Wattage:	25W max.
Input Power:	24.8W
Input Current at 120V:	207mA
Input Current at 277V:	90mA
Maximum Non-IC Ambient Continuous Operating Temperature:	40°C (104°F)

* Refer to Emergency Backup Driver Energy Data Included with Housing Specifications H750TEM912



Qualified and Compliant as designated. Refer to trim selection for compliant models.

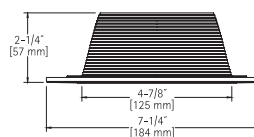


494WB06 White Baffle with White Trim Ring

- Halo matte white finish die-cast trim ring
- Halo Matte White die-cast baffle
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for Air-Tite™ seal



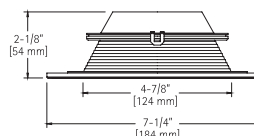
Accessory:
494OPTIC - over optic lens



494WB06
White Baffle
with White Trim Ring

493WBS06 Solite® Regressed Lens with White Baffle and White Trim Ring

- Halo matte white trim ring and baffle
- Upper specular aluminum reflector for optical control and enhanced lumen delivery
- Wet location listed for use in showers and protected canopy applications; and IP66 Ingress Protection rated
- Die-cast aluminum baffle and trim ring
- Trim height of .160" at OD & .180" at ID
- Provides clearance for remodeler flange and gasket for Air-Tite™ seal



493WBS06
Regressed Solite® Lensed
White Baffle with
White Trim Ring

494OPTIC Lens Over-Optic for Open LED Trims

Optional accessory - diffusing lens drops into top of open 494 Series LED trims.

Precision formed lens media provides diffusion of LED source brightness.

Compatible with: 494WB06



494OPTIC
Lens Over-Optic for
Open LED Trims

Oversize Rings

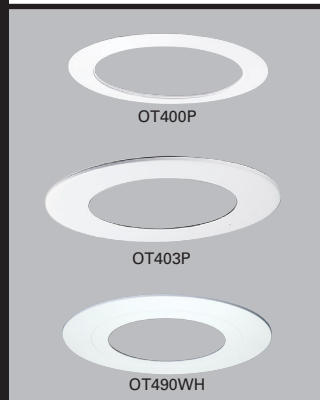
For use when ceiling opening is irregular or cut too large. The oversized ring is installed behind the Halo LED trim ring to mask irregularities or cutout errors of the ceiling opening.

- OT400P = Oversize White Metal Trim Ring 6" ID x 9-1/4" OD
- OT403P = Oversize White Plastic Trim Ring 6" ID x 8" OD

Oversize LED Trim Ring

For use when ceiling opening is irregular or cut too large.

- OT490WH = LED Oversize White Die-Cast Aluminum Trim Ring 5-1/8" ID x 9-1/4" OD - attaches to LED module, substitute for standard LED trim ring.



OT400P, OT403P, OT490WH
Oversize Trim Rings



ORDERING INFORMATION

SAMPLE NUMBER:

Complete unit includes Halo LED 1200 Series Emergency Module ML7128xxTUNVD010EM, with Halo LED 49x series trim, and H750TEM912 emergency housing - ordered separately (refer to H750TEM912 Emergency Housing specifications for further information on Emergency Battery Backup).

ML7 LED 1200 Series Modules

ML7128xxTUNVD010EM

ML712

ML712= LED Module, 1200 Series

8

8= 80 CRI

TUNVD010

Nominal CCT
27= 2700°K
30= 3000°K
35= 3500°K
40= 4000°K

TUNVD010= Non-IC Listed, 120V-277V UNV Module with 0-10V DC dimming

EM

EM=Emergency Connection for mating connection with the H750TEM912 emergency housing

Emergency Backup Housing

H750

H750= LED Housing with LED connections (high efficacy compliant)

TEM912

TEM912= 6" Dedicated LED Non-IC listed, AIR-TITE, New Construction Housing for Halo LED 900 Series and 1200 Series dedicated Emergency Modules, with prewired connections for LED power, 1200 Series 0-10V dimming, and Emergency Backup from emergency driver included on housing.

H7 LED Downlight Trims

- 494WB06 White Baffle and white trim ring
- 493WBS06 Solite® Regressed Lens, upper specular reflector, White baffle and trim ring, Shower rated

H7 LED Trims Accessories

- 494OPTIC 6" Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.
- Oversize Trim Ring**
- OT490WH 6" Oversize white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims.
- OT403P Oversize White Plastic Ring, 6" I.D. x 8" O.D. Ring slips behind standard LED trim ring.
- OT400P Oversize White Metal Ring, 6" I.D. x 9-1/4" O.D. Ring slips behind standard LED trim ring.

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