Introduction

The ML Concept

The HALO™ Modular LED recessed lighting system provides a broad range of lighting solutions ideal for residential and commercial use including single and multi-family dwellings, hospitality, retail, office and institutional spaces. The ML family delivers the energy savings, long life and sustainability of LED with excellent optical control providing cost effective and visually comfortable lighting.

Apertures include full cone reflectors, baffles, open and lens wall washers and directional styles. These combinations provide useful distributions including ambient, task, wall wash and accent facilitating a balanced lighting layout. Choose from round or square forms and a broad range of finishes to complement any décor.

LED module and trim combinations are compatible with industry standard 4, 5 and 6 inch housing types and can be used for new construction as part of the electrical rough-in or install from below - ideal for remodeling applications. They can also be retrofit into existing housings enabling older light-source technologies to be easily upgraded to LED.

With a color rendering index (CRI) of 90 minimum the ML family delivers excellent color quality and can be specified in 2700, 3000, 3500 and 4000K correlated color temperatures (CCT). It can be used to meet the IECC and the State of California Title 24 high efficacy luminaire compliance. Consult the California Energy Commission Title 20 Appliance Efficiency Database for current listings. Meets the State of California voluntary lamp standards. Most combinations are ENERGY STAR® listed, reference qualified product listing.

Innovation you can rely on
The US Environmental Protection Agency’s ENERGY STAR® program is designed to identify and promote energy efficient products and buildings. Eaton’s lighting business is proud to be an industry leader of certified products including many of our Halo recessed downlights. [www.energystar.gov](http://www.energystar.gov)

International Energy Conservation Code (IECC) establishes energy-related heating, cooling, water heating, electrical and lighting system standards for residential, multi-family, and commercial buildings. [www.iccsafe.org](http://www.iccsafe.org)

Eaton’s Halo luminaires are manufactured and designed in accordance with the specifications outlined in Underwriters Laboratories Standard for Safety – Luminaires 1598. These luminaires additionally comply with the applicable requirements found within the National Electrical Code (NEC), NFPA 70.

Products bearing the cULus Listed marks indicate that the luminaires have been evaluated by Underwriters Laboratories, and are found to be compliant with the product specific requirements for the United States and Canada. [www.ul.com/](http://www.ul.com/)

Eaton’s lighting business supports state codes enforcing more stringent and environmentally protective standards such as California Energy Commission’s Title 24 Energy Efficiency standards. [www.energy.ca.gov/title24](http://www.energy.ca.gov/title24) and [www.energy.ca.gov/appliance](http://www.energy.ca.gov/appliance)

RoHS Directive - Restriction of Hazardous Substances. This global initiative seeks to eliminate hazardous materials in products. Key materials being eliminated from products through RoHS include: cadmium, mercury and lead among others.
D2W™

Select ML combinations are available in the D2W dim-to-warm option mimicking the black body dimming response of tungsten halogen lamps warming the output from approximately 3000 to 1850K CCT.

- Dims smoothly from 3000K to 1850K creating a rich, warm glow within the space.
- Maintains 90 CRI throughout the dimming range.
- Available in 600, 900, and 1200 lumen outputs.
- Use the same 120V dimmers as with any of the ML4 and ML56 LED modules.

Dimming Profile

<table>
<thead>
<tr>
<th>CCT (°K)</th>
<th>% of Lumen Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,000</td>
<td>100%</td>
</tr>
<tr>
<td>2,600</td>
<td>75%</td>
</tr>
<tr>
<td>2,200</td>
<td>50%</td>
</tr>
<tr>
<td>1,800</td>
<td>25%</td>
</tr>
<tr>
<td>1,400</td>
<td>0%</td>
</tr>
</tbody>
</table>

Typical Halogen | Typical Incandescent | ML56 D2W
Lighting Control Solution

Set the mood

Eaton dimmers offer versatile options to set the mood and reduce energy consumption. These compatible LED dimmers are ideal for both residential and light commercial applications and are compatible with decorator (screwless) style devices and wallplates.

The Halo D2W technology works with any dimmer that is compatible with Halo LED ML products.

Refer to www.eaton.com for additional information.

HALO HOME™

Simple. Smart. Secure.

HALO Home In-wall Smart Dimmer
HIWMA1BLE40AWH
Controls standard lighting fixtures with dimmer or HALO Home mobile app.
Features include:
- ON/OFF
- Dim
- Group
- Scene
- Schedule
ML4
4-inch LED downlighting system

The ML4 system is comprised of a housing, LED module, and round or square 2-inch aperture pinhole trims. This compact assembly installs from below the ceiling in standard 4-inch line voltage housings suitable for 2x6 residential framing or shallow plenum commercial construction.

For even tighter spacing an ultra-shallow install from below housing is available and is suitable for 2x4 framing. For ceiling types that make recessed lighting difficult, like concrete pour, round and surface cylinders support direct attachment to finished ceiling surfaces.

Although diminutive in size the 900 lumen series ML4 delivers powerful beams of light providing the optical control and color quality typically associated with low voltage tungsten-halogen MR16 lamps. Delivered center beam candlepower (CBCP) of ML4 LED exceeds 50W low voltage MR16 lamps with significantly higher candela per watt (Cd/W).
Simple, compact, accurate
ML4 Module / Optic
Balance efficiency with optical control

The ML4 module combines a chip on board LED array, driver and heat sink into an integrated light engine providing a highly efficient and reliable source of light. The precision molded optic organized the source flux producing tightly controlled and useful beams of light.

The ML4 module can be ordered with either the 25° narrow flood or 40° flood optics preinstalled and are suitable for a wide range of applications. Alternate beam patterns are possible - 15° spot and 55° wide flood optics are available as accessories and are easily interchangeable in the field. A media holder integral with the optic accepts industry standard 2” diameter lens providing additional creative control.
ML4 Ordering Information

A complete luminaire consists of a housing, LED module and trim. Order separately.

<table>
<thead>
<tr>
<th>Models</th>
<th>Lumens</th>
<th>Distribution</th>
<th>CRI/CCT</th>
<th>Driver</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML4D= 4” LED module</td>
<td>09=800 lumens (nominal)</td>
<td>NFL=25° narrow flood FL=40° flood</td>
<td>927=80 CRI min, 2700K CCT 930=80 CRI min, 3000K CCT 935=80 CRI min, 3500K CCT 940=80 CRI min, 4000K CCT D2W=90 CRI (min) color shifts from 3000 to 1850 K mimicking black body dimming</td>
<td>E=UNV 120 - 277V 50-60Hz, LE &amp; TE phase cut 5% dimming at 120V only E610=120-277V 50-60 Hz 0-10V analog dimming to 5%</td>
<td>E010=120-277V 50-60 Hz 0-10V analog dimming to 5%</td>
</tr>
<tr>
<td>TIR45SP15</td>
<td>15 degree spot</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIR45NFL25</td>
<td>25 degree narrow flood</td>
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<tr>
<td>TIR45FL40</td>
<td>40 degree flood</td>
<td></td>
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<tr>
<td>TIR45WFL55</td>
<td>55 degree wide flood</td>
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<td></td>
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<tr>
<td>TIR50AWW25</td>
<td>25 degree narrow flood asymmetric / wall wash</td>
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<tr>
<td>TIR45MH12PK</td>
<td>replacement media holder</td>
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</tr>
</tbody>
</table>

L100 Series = 2.0” lens and filters, see spec sheet
ML4 Trims
The finishing touch

TL4 series trims are offered in four luxurious electro-plated finishes: brushed nickel, oil rubbed bronze, brushed copper and German bronze. Use to complement your thoughtfully selected interior finishes.

The TL4 trims are available in three trim types: open, lens, and lens wall wash.

The trims are attached by four powerful rare earth Neodymium magnets; they float on a bubble of magnetic flux keeping the trims held securely in place.
brushed copper

german bronze

brushed nickel

oil rubbed bronze
Open pinhole

The round and square open pinhole apertures are optimized for use with beam forming optics delivering full output with visual cutoff and brightness control. Magnetic attachment makes installation a snap and allows for minor adjustment accommodating real-world construction tolerances. Available in painted and electro-plated finishes. Damp location listed.
The round and square lens pinhole apertures soften the light with an integral diffuse lens. Magnetic attachment makes installation a snap and allows for minor adjustment accommodating real-world construction tolerances. Available in painted and electro-plated finishes; the lens frame is available in white or black and color coordinated with the flange finish. Wet location listed.
Lens wall wash

The round and square lens wall wash apertures use the unique asymmetric optic that redirects light through a linear spread lens providing smooth vertical illumination. Use to light walls, paintings and textured surfaces including stone, masonry and wood. Magnetic attachment makes installation a snap and allows for minor adjustment accommodating real-world construction tolerances. The lens frame is available in white or black and color coordinated with the flange finish. Wet location listed.

**TL45R**
2” round lens wall wash pinhole

**TL46S**
2” square lens wall wash pinhole

The TIR50AWW25 asymmetric optic is supplied with TL45R and TL46S wall wash trims to simplify ordering.
Providing Accents

The asymmetric / wall wash optic combined with the open and lens pinhole apertures delivers a directional beam of light effective for accenting objects of interest including art and architecture.

The aiming angle is pre-set at 22.5 degrees, a useful mid-point adjustment, eliminating the need for individual elevation adjustment. This simple yet effective lighting technique provides contrast ratios creating visual interest and drama in your environments.

TIR50AWW25 asymmetric wall wash
Installed in ML4 module
Complete unit with TL41RMW installed.
Housings
ML4 Housing Compatibility

Halo LED
H995ICAT, H995RICAT

Halo Shallow Housings
H991CAT, H99RTAT, H99TAT, H1499ICAT, H1499RTAT, H1499T75,
H1499TAT, E4ICATSB, E4TATSB, E4RTATSB

Halo Ultra-Shallow Housings
H245ICAT, H245RICAT

Halo Surface Mount Housings
HS4RMW, HS4RMB, HS4SMW, HS4SMB
**Competitor Housing Compatibility**

The ML4 comes with a dedicated LED connector for High Efficacy luminaire compliance (California Title 24, International Energy Conservation Code) and is cULus Listed for installation with Halo® recessed LED housings (H245ICAT, H245RICAT, H995ICAT, H995RICAT).

The ML4 is also compatible with a E26 Edison screw base adapter to accommodate many industry standard screw base housings. The series is cULus Listed and UL Classified for retrofit in Halo and other housings.

### 4” Housings

**Utilitech**
- CR04ICAT

**Lithonia Lighting®**
- L3, L3R

**Juno®**
- TC1, TC1R

**Thomas®**
- PS4

**Commercial Electric™**
- HBR2000B

**Progress Lighting®**
- P830-TG, P832-TG

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**T24HWKIT**
- Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED.

**H4NCMF**
- New construction rough-in frame for use with Halo 4-inch H245RICAT, H99RTAT, H1499RICAT, and E4RTATSB remodeler housings. **Note:** Remodeler housings are installed after ceiling is installed.

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**Halo LED 4-inch**
- H995ICAT= 4” LED, Insulated Ceiling, Air-Tite, New Construction Housing
- H995RICAT= 4” LED, Insulated Ceiling, Air-Tite, Remodel Housing

**Halo Ultra-Sharp LED 4-inch**
- H245ICAT= 4” LED, Insulated Ceiling, Air-Tite, Ultra-Sharp New Construction Housing
- H245RICAT= 4” LED, Insulated Ceiling, Air-Tite, Ultra-Sharp Remodel Housing

**Halo Standard Housings 4-inch**
- H99ICAT= 4” IC, Air-Tite, Shallow New Construction Housing
- H99TAT= 4” Non-IC, Air-Tite, Shallow New Construction Housing
- E9ICATSB= 4” IC, Air-Tite, Shallow New Construction Housing
- E9TATSB= 4” Non-IC, Air-Tite, Shallow New Construction Housing

**Halo Low Voltage Housings 4-inch**
- H1499ICAT= 4” IC, Air-Tite, New Construction Housing, 120V - 12V Low Voltage MR16
- H1499TAT= 4” Non-IC, Air-Tite, Shallow New Construction Housing, 120V - 12V Low Voltage MR16
- H1499TAT75= 4” Non-IC, Air-Tite, Shallow New Construction Housing, 120V/277V - 12V Low Voltage, MR16

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*Use T24HWKIT, Title 24 Cable Harness Kit, to convert incandescent and low voltage housings to LED.

**Compatible with H245RICAT, H99RTAT, H1499RICAT, and E4RTATSB remodeler housings.**

Juno®, Lithonia Lighting®, Thomas® Lighting, Progress® Lighting and Commercial Electric™ and their product brand names, where identified above, are trademarks or trademarks of each respective company and Eaton makes no representations on these trademarks.
Ultra-shallow housings
H245ICAT / H245RICAT

- Suitable for 2x4 framing and shallow plenum construction
- Housing adjusts for 1/2” to 1-1/4” ceiling thickness
- Suitable for direct contact with air-permeable insulation and air tight
- Captive, pre-installed Got Nail!” bar hangers adjust from 6” to 24,” integral nail penetrates standard and engineered lumber
- Slide-N-Side™ non-metallic (NM) wire traps allow wiring outside the box, 4-port push wire nuts for quick and reliable mains voltage connections
- Suitable for 2x4 framing or shallow plenum construction
- Compatible with 3/8” to 3/4” ceiling thickness
- Retractable mounting springs are designed for easy installation and removal for service or splice inspection
- Quick Connect™ remodel wiring tray increases installation speed and reliability
- Hinged and captive door on junction box allows for easy access
- Insulated ceiling listed and Air-Tite™

Both the H245ICAT and H245RICAT are cULus listed for use with all Halo 4-inch integrated LED trims and modules.
Surface Mount Housing
Square and round surface mount

- round or square housing mounts to junction box
- spider plate allows alignment of square with architecture
- exclusively for use with Halo ML4 LED module and trims
- finishes: matte white and matte black

<table>
<thead>
<tr>
<th>Surface Mount Housing</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS4R= Surface round, 120-277V</td>
<td>MW=Matte white</td>
</tr>
<tr>
<td>HS4S= Surface square, 120-277V</td>
<td>MB=Matte black</td>
</tr>
</tbody>
</table>
The Halo ML56 LED downlight collection is comprised of LED modules with 5” and 6” trims. ML56 LED modules are offered in three lumen packages across the 600, 900, and 1200 series - a versatile collection of energy-efficient LED downlights for general lighting in commercial and residential applications. The Halo ML56 LED 600, 900, 1200 series modules are for either new construction or retrofitting existing 5” and 6” compatible housings (Edison screw base adapter included). Halo LED ML56 collection features excellent color (90 CRI) and offers a wide selection of color temperatures (2700K, 3000K, 3500K, and 4000K).
high performance for volumetric spaces

*E26 Edison Screw Base Adapter (included for retrofit of non-LED housings).
The ML56 light modules are integrated LED engines that include a LED chip package, LED driver, heat sink, and lens in a modular design that allows interchangeable use with designated ML56 5” and 6” LED trims.

The ML56 light module design features an inside frost diffusing lens that looks like a traditional lamp for visual comfort and aesthetic familiarity. The diffusing lens provides uniform illumination.

### ML56 Ordering Information

A complete luminaire consists of a housing, LED module and trim. Order separately.

<table>
<thead>
<tr>
<th>LED Modules</th>
<th><strong>Beam Forming Optic / Media 1200 Series Accessories</strong></th>
<th>ML56 System Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>600 Series</strong></td>
<td></td>
<td>ML7RAB: Retrofit adapter band for housings without torsion spring receivers. The ML7RAB kit supplies parts to retrofit four housings; the kit includes: 4 – Retrofit adapter bands with screws and locking wire nuts</td>
</tr>
<tr>
<td>ML5606927= 5”/6” LED module, 90CRI, 2700K</td>
<td>ML5612D2W930= 5”/6” DIM to warm LED module, 1200 lumen, 90CRI, 3000K to 1850K</td>
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<tr>
<td>ML5606930= 5”/6” LED module, 90CRI, 3000K</td>
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<tr>
<td>ML5606935= 5”/6” LED module, 90CRI, 3500K</td>
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<tr>
<td>ML5606940= 5”/6” LED module, 90CRI, 4000K</td>
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<tr>
<td><strong>900 Series</strong></td>
<td></td>
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<tr>
<td>ML5609927= 5”/6” LED module, 90CRI, 2700K</td>
<td>ML5612D2W930= 5”/6” DIM to warm LED module, 1200 lumen, 90CRI, 3000K to 1850K</td>
<td></td>
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<tr>
<td>ML5609930= 5”/6” LED module, 90CRI, 3000K</td>
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<td></td>
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<tr>
<td>ML5609935= 5”/6” LED module, 90CRI, 3500K</td>
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<tr>
<td>ML5609940= 5”/6” LED module, 90CRI, 4000K</td>
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<tr>
<td><strong>1200 Series</strong></td>
<td></td>
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<tr>
<td>ML5612927= 5”/6” LED module, 90CRI, 2700K</td>
<td>ML5612D2W930= 5”/6” DIM to warm LED module, 1200 lumen, 90CRI, 3000K to 1850K</td>
<td></td>
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<tr>
<td>ML5612930= 5”/6” LED module, 90CRI, 3000K</td>
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<tr>
<td>ML5612935= 5”/6” LED module, 90CRI, 3500K</td>
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<td></td>
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<tr>
<td>ML5612940= 5”/6” LED module, 90CRI, 4000K</td>
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<tr>
<td><strong>900 Series D2W - Dim to Warm Light Module</strong></td>
<td><strong>Beam Forming Optic / Media</strong></td>
<td></td>
</tr>
<tr>
<td>ML5609D2W830= 5”/6” DIM to warm LED module, 600 lumen, 90CRI, 3000K to 1850K</td>
<td>ML5612D2W930= 5”/6” DIM to warm LED module, 1200 lumen, 90CRI, 3000K to 1850K</td>
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<tr>
<td><strong>1200 Series D2W - Dim to Warm Light Module</strong></td>
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<tr>
<td>ML5612D2W830= 5”/6” DIM to warm LED module, 900 lumen, 90CRI, 3000K to 1850K</td>
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</tbody>
</table>

*Beam forming optics/media not recommended for use with ML5612D2W930 LED module.

*For California non-ES2 base product place -CA suffix at the end of catalog number (ie ML5606927-CA.

> Consult ML56 LED light module specification sheets for applicable trim listings with respective 600 Series, 900 Series and 1200 Series.
For the 1200 series LED light modules, the diffusing lens is interchangeable with an optional 25° Narrow Flood (NFL) beam forming lens.

**1200 Series optics**

- **standard diffusing lens** (included)
- **BFR56NFL** narrow flood lens (NFL)
- **BFR56MH†** media holder (requires BFR56NFL & L345SF, ordered separately)
- **L345SF** soft focus lens (requires BFR56NFL & BFR56MH, ordered separately)
### Trims

**The finishing touch**

Multiple 5” and 6” baffle, reflector, and eyeball options allow the Halo ML56 LED downlighting system to be used in a variety of interior spaces. Choose the desired trim size, finish, and style to meet the needs of the application.

- Reflector and baffle trims are wet location listed for shower applications. Eyeball trims are damp location listed.
- Reflector and baffle trims make the ML56 and any compatible housing Air-Tite.
- Consult ML56 LED light module specification sheets for applicable trim listings with respective 600 Series, 900 Series and 1200 Series.

<table>
<thead>
<tr>
<th>Trims</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>590 Series - 5” LED Trims</strong></td>
<td><strong>ML56CLIP</strong> - Friction clip mounting kit - for retrofitting non-torsion spring housings, 6” clips*&lt;br&gt;<strong>WW595SC</strong> - 5” Wall wash insert - kick reflector for 595WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>WW695SC</strong> - 6” Wall wash insert - kick reflector for 695WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>TRM590OH</strong> - 5” LED oversize trim ring for use with 59” series trims, white 6.3” I.D., 7.5” O.D. Ring slips over LED trim. Inset design allows 5” trim to fit into oversize ring for an even trim surface&lt;br&gt;<strong>TRM690OH</strong> - 6” LED oversize trim ring for use with 69” series trims, white 6.9” I.D., 9.5” O.D. Ring slips over LED trim. Inset design allows 6” trim to fit into oversize ring for an even trim surface</td>
</tr>
<tr>
<td><strong>591WB</strong> - 5” LED trim, polymer “dead-front”, shallow white baffle &amp; flange – shallow and standard housings&lt;br&gt;(For use with 600 Series LED light modules only)</td>
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</tr>
<tr>
<td><strong>591SC</strong> - 5” LED trim, specular reflector &amp; white flange</td>
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</tr>
<tr>
<td><strong>592H</strong> - 5” LED trim, haze reflector &amp; white flange</td>
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</tr>
<tr>
<td><strong>592W</strong> - 5” LED trim, white reflector &amp; flange</td>
<td></td>
</tr>
<tr>
<td><strong>593WB</strong> - 5” LED trim, white micro-step baffle &amp; flange</td>
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<tr>
<td><strong>593BB</strong> - 5” LED trim, black micro-step baffle &amp; white flange</td>
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<tr>
<td><strong>593SNB</strong> - 5” LED trim, satin nickel micro-step baffle &amp; flange</td>
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<tr>
<td><strong>593TBZB</strong> - 5” LED trim, tuscan bronze micro-step baffle &amp; flange</td>
<td></td>
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<tr>
<td><strong>594WB</strong> - 5” LED directional trim, white eyeball, baffle &amp; flange – shallow and standard housings</td>
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<tr>
<td><strong>594SNB</strong> - 5” LED directional trim, satin nickel eyeball, baffle &amp; flange – shallow and standard housings</td>
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<tr>
<td><strong>594TBZB</strong> - 5” LED directional trim, tuscan bronze eyeball, baffle &amp; flange – shallow and standard housings</td>
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<tr>
<td><strong>595WW</strong> - 5” LED trim, wall wash - specular reflector, repositionable specular kick reflector, white flange</td>
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<tr>
<td><strong>596WB</strong> - 5” LED trim, white shallow baffle &amp; flange – shallow and standard housings</td>
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<tr>
<td><strong>599 Series - 6” LED Trims</strong></td>
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</tr>
<tr>
<td><strong>691WB</strong> - 6” LED trim, polymer “dead-front”, white shallow baffle &amp; flange – shallow and standard housings&lt;br&gt;(For use with 600 Series LED light modules only)</td>
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</tr>
<tr>
<td><strong>692SC</strong> - 6” LED trim, specular reflector &amp; white flange</td>
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<tr>
<td><strong>692H</strong> - 6” LED trim, haze reflector &amp; white flange</td>
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<tr>
<td><strong>692W</strong> - 6” LED trim, white reflector &amp; flange</td>
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<tr>
<td><strong>693WB</strong> - 6” LED trim, white micro-step baffle &amp; flange</td>
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<td><strong>693BB</strong> - 6” LED trim, black micro-step baffle &amp; white flange</td>
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<td><strong>694WB</strong> - 6” LED directional trim, white eyeball, baffle &amp; flange – shallow and standard housings</td>
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<tr>
<td><strong>694SNB</strong> - 6” LED directional trim, satin nickel eyeball, baffle &amp; flange – shallow and standard housings</td>
<td></td>
</tr>
<tr>
<td><strong>694TBZB</strong> - 6” LED directional trim, tuscan bronze eyeball, baffle &amp; flange – shallow and standard housings</td>
<td></td>
</tr>
<tr>
<td><strong>695WW</strong> - 6” LED trim, wall wash - specular reflector, repositionable specular kick reflector, white flange</td>
<td></td>
</tr>
<tr>
<td><strong>696WB</strong> - 6” LED trim, white shallow baffle &amp; flange – for use with shallow and standard housings</td>
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</tbody>
</table>

**ML56CLIP** is compatible with 6” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.

**Wall wash trims 595WW and 695WW feature an exclusive repositionable kick reflector for fine-tuning adjustment of the wall wash effect. The WW595SC and WW695SC are repositionable kick reflectors sold separately for addition to the wall wash trim when a double or corner wall wash is needed, or for replacement of original kick reflector included with the trim.**

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Reflectors
Create wide light patterns and maximize the efficiency of the light source.

Baffles
Trap and shape light to minimize aperture glare, reduce ceiling brightness, and narrow the focus of the downlighting beam.

Eyeballs
Provide precise, variable directional lighting. Useful for directing to accent wall hangings, mantels, and task areas.

Wall Washer
Provide same vertical surface illumination. The ML56 repositionable kick reflector allows the user to position within the 360 degree trim aperture.

Trim Ring Finishes
- white
- satin nickel
- tuscan bronze
5” Trims

**591**
5” “dead front” shallow baffle
- **591WB** white “dead front” shallow baffle (for 600 Series module only)

**592**
5” reflector
- **592W** white
- **592SC** specular clear
- **592H** haze

**593**
5” baffle
- **593WB** white baffle and trim
- **593BB** black baffle, white trim
- **593SN** satin nickel baffle and trim
- **593TBZ** tuscan bronze baffle and trim

**594**
5” eyeball
- **594WB** white
- **594SN** satin nickel
- **594TBZ** tuscan bronze

**595**
5” wall wash
- **595WW** specular reflector

**596**
5” shallow baffle
- **596WB** white shallow baffle and trim

**Accessory**
5” oversize trim ring
- **TRM590WH** white

---

**EATON**
Recessed downlighting solutions
6” Trims

691 6” “dead front” shallow baffle
692 6” reflector
693 6” baffle
694 6” eyeball
695 6” wall wash
696 6” shallow baffle

691WB white “dead front” shallow baffle
(for 600 Series module only)
692W white
692SC specular clear
692H haze
693WB white “dead front” shallow baffle
(for 600 Series module only)
694WB white
694SN satin nickel
694TBZ tuscan bronze

Accessories
6” oversize trim ring
TRM690WH white
Housings

ML56 Housing Compatibility

Halo LED
6-inch: H750ICAT, H750RICAT, H750T, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT
5-inch: H550ICAT, H550RICAT, E550ICAT, E550RICAT

Halo LED retrofit
6-inch: ML7E26RFK, ML7B XF K

Halo Standard Housings
6-inch: H7ICAT, H7RICAT, H7ICT, H7ICTNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UCAT, E7ICAT, E7RICAT, E7ICATNB, E7TAT, E7RTAT, E7TATNB
5-inch: H5ICAT, H5RICAT, H5ICATNB, H5T, H5TNB, H5RT, E5ICAT, E5RICAT, E5ICATNB, E5TAT, E5TATNB, E5RTAT

Halo Shallow Housings
6-inch: H27ICAT, H27RICAT, H27T, H27RT, E27ICAT, E27RICAT, E27TAT, E27RTAT
5-inch: H25ICAT, H25RICAT, H25ICATNB
Halo LED 6-inch
H750ICAT= 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
H750RICAT= 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing
H750T= 6" LED, Non-IC, Air-Tite, New Construction Housing
H750TCP= 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing
H2750ICAT= 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Construction (use with 691X, 694X, 696X trims only)
H2750RICAT= 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only)
E750ICAT= 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
E750RICAT= 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing
Halo LED 5-inch
H550ICAT= 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
H550RICAT= 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing
E550ICAT= 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
E550RICAT= 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing
Halo LED retrofit
ML7E26HFX= 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface
ML7E26FX= 6" Retrofit Enclosure, Non-IC, BX Whip
Halo Standard Housings 6-inch
H7ICAT= 6" Insulated Ceiling, Air-Tite New Construction Housing
H7RICAT= 6" Insulated Ceiling, Air-Tite Remodel Housing
H7ICT= 6" Insulated Ceiling, New Construction Housing
H7RICT= 6" Insulated Ceiling, Remodel Housing
H7ICATNB= 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
H7RICTNB= 6" Insulated Ceiling, New Construction Housing, No Socket Bracket
H7T= 6" Non-IC, New Construction Housing
H7RT= 6" Non-IC, Remodel Housing
H7TNB= 6" Non-IC, New Construction Housing, No Socket Bracket
H7TCP= 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing
H7ULICAT= 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing
E7ICAT= 6" Insulated Ceiling, Air-Tite New Construction Housing
E7RICAT= 6" Insulated Ceiling, Air-Tite Remodel Housing
E7ICATNB= 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
E7RICT= 6" Non-IC, New Construction Housing
E7RT= 6" Non-IC, Remodel Housing
E7TNB= 6" Non-IC, New Construction Housing, No Socket Bracket
E7TAT= 6" Non-IC, New Construction Housing
E7RTAT= 6" Non-IC, Remodel Housing
Halo Standard Housings 5-inch
H5ICAT= 5" Insulated Ceiling, Air-Tite New Construction Housing
H5RICAT= 5" Insulated Ceiling, Air-Tite Remodel Housing
H5ICT= 5" Insulated Ceiling, New Construction Housing
H5RICT= 5" Insulated Ceiling, Remodel Housing
H5ICATNB= 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
H5TECT= 5" Non-IC, New Construction Housing
H5RT= 5" Non-IC, Remodel Housing
H5T= 5" Non-IC, New Construction Housing
H5RT= 5" Non-IC, Remodel Housing
Halo Standard Housings 5-inch (continued)
H5TNB= 5" Non-IC, New Construction Housing, No Socket Bracket
E5ICAT= 5" Insulated Ceiling, Air-Tite New Construction Housing
E5RICAT= 5" Insulated Ceiling, Air-Tite Remodel Housing
E5ICATNB= 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
E5ICT= 5" Non-IC, New Construction Housing
E5RT= 5" Non-IC, Remodel Housing
E5TNB= 5" Non-IC, New Construction Housing, No Socket Bracket
Halo Shallow Housings 6-inch*
H27ICAT= 6" Shallow, Insulated Ceiling, Air-Tite New Construction
H27RICAT= 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing
H27T= 6" Shallow, Non-IC, New Construction Housing
H27RT= 6" Shallow, Non-IC, Remodel Housing
E27ICAT= 6" Shallow, Insulated Ceiling, Air-Tite New Construction
E27RICAT= 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing
E27TAT= 6" Shallow, Non-IC, New Construction Housing
E27RTAT= 6" Shallow, Non-IC, Remodel Housing
Halo Shallow Housings 5-inch**
H25ICAT= 5" Shallow, Insulated Ceiling, Air-Tite New Construction
H25RICAT= 5" Shallow, Insulated Ceiling, Air-Tite Remodel
H25ICATNB= 5" Shallow, Insulated Ceiling, Air-Tite New Construction, No Socket Bracket
H25TAT= 5" Non-IC, New Construction Housing
H25RTAT= 5" Non-IC, Remodel Housing

*use with 691X, 694X, 696X trims only
**use with 591X, 594X, 596X trims only
### Competitor Housing Compatibility

The ML56 LED light module - trim combination is cULus Listed or UL Classified for use with any 5” or 6” diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 115 in³ in addition to those noted. The ML56 system is UL Classified for retrofit in select 5” and 6” incandescent housings by others.

#### 5” Housings

<table>
<thead>
<tr>
<th>Housings</th>
<th>600</th>
<th>900</th>
<th>1200</th>
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<tbody>
<tr>
<td>Juno Standard and Shallow Housings</td>
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<tr>
<td>(use with 591X, 594X, 596X trims only)</td>
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<tr>
<td>IC20, IC25S, IC25W, TC20</td>
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#### 6” Housings

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<thead>
<tr>
<th>Housings</th>
<th>600</th>
<th>900</th>
<th>1200</th>
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<tbody>
<tr>
<td>Juno Standard Housings</td>
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<tr>
<td>IC22, IC22R, IC22W, IC22S, IC23, IC23W, TC2, TC2R, IC2</td>
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<tr>
<td>Juno Shallow Housings</td>
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<td>(use with 691X, 694X, 696X trims only)</td>
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<tr>
<td>C21, IC21R</td>
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<tr>
<td>Capri Standard Housings</td>
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<td>CR1, PR1, QL1</td>
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<tr>
<td>Capri Shallow Housings</td>
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<tr>
<td>R9ASIC/PS9RM</td>
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<td>Elco</td>
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<tr>
<td>HL7ICA (EL7ICA)</td>
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<tr>
<td>Lithonia Lighting Standard Housings</td>
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<tr>
<td>LC6, L7X</td>
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#### 6” Housings

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<th>1200</th>
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<td>Lithonia Lighting Shallow Housing</td>
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<td>(use with 691X, 694X, 696X trims only)</td>
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<td>L7XP</td>
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<td>C7ICA, H3</td>
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<td>Progress Standard Housing</td>
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<td>1104ICS†, 1104ICR†</td>
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† For 600 series and 900 series replace torsion springs with friction clips. Friction clip kit sold separately: ML56CLIP. For 1200 Series install the Retrofit Adapter Band in housing. Order separately: ML7RAB.

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Lighting Product Lines
Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
Halo
Halo Commercial
Invue
io
Iris
Lumark
Lumière
McGraw-Edison
Metalux
MWS
Neo-Ray
Portfolio
RSA
Shaper
Streetworks
Sure-Lites

Controls Product Lines
Fifth Light Technology
Greengate
iLight (International Only)
iLumin
Zero 88

Connected Lighting Systems
Distributed Low-Voltage Power
HALO Home
iLumin Plus
LumaWatt Pro
WaveLinx

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

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