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 4000 K 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.
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

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

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/

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 and 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.
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 organizes the source flux producing tightly controlled and useful beams of light.

The narrow flood optic, the most efficient and powerful beam, is pre-installed in the ML4 module and is suitable for a wide range of applications. Alternate beams are possible – flood and wide flood optics are available as accessories and easily installed in the field. An optional media holder attaches directly to the optic and accepts industry standard 2” diameter lens providing additional creative control.
## ML4 optics

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>CRI/CCT</th>
<th>Driver</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIR50NFL25</td>
<td>25 degree narrow flood</td>
<td>927=80 CRI, 2700K</td>
<td>E-UNIV 120 - 277V 50-60Hz, LE &amp; TE phase cut 5% dimming at 120V only</td>
<td>TIR50NFL25=25° narrow flood</td>
</tr>
<tr>
<td>TIR50FL40</td>
<td>40 degree flood</td>
<td>930=90 CRI, 3000K</td>
<td></td>
<td>TIR50FL40=40° flood</td>
</tr>
<tr>
<td>TIR50WFL55</td>
<td>55 degree wide flood</td>
<td>935=90 CRI, 3500K</td>
<td></td>
<td>TIR50WFL55=55° wide flood</td>
</tr>
<tr>
<td>LH501MB</td>
<td>Media holder for 50mm lens</td>
<td></td>
<td></td>
<td>LH501MB12PK=Media holder for (1) 50mm lens, matte black, 12 pack</td>
</tr>
</tbody>
</table>

## 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=900 lumens (nominal)</td>
<td>NFL=25 degree narrow flood</td>
<td>927=80 CRI, 2700K</td>
<td>E-UNIV 120 - 277V 50-60Hz, LE &amp; TE phase cut 5% dimming at 120V only</td>
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<td></td>
<td>TIR50WFL55=55° wide flood</td>
</tr>
<tr>
<td>ML4D= 4” LED module</td>
<td>09=900 lumens (nominal)</td>
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<td>940=90 CRI, 4000K</td>
<td></td>
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<td>LH501MB</td>
<td>Media holder for 50mm lens</td>
<td></td>
<td></td>
<td></td>
<td>LH501MB12PK=Media holder for (1) 50mm lens, matte black, 12 pack</td>
</tr>
</tbody>
</table>
ML4 Trims
The finishing touch

TL4 series trims are offered in four luxurious electroplated 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.
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.

**TL41R**
2” round open pinhole

- **TL41RMW** matte white flange
- **TL41RBN** brushed nickel flange
- **TL41RMB** matte black flange
- **TL41ROB** oil rubbed bronze flange
- **TL41RGB** german bronze flange

**TL42S**
2” square open pinhole

- **TL42SMW** matte white flange
- **TL42SBN** brushed nickel flange
- **TL42SBCu** brushed copper flange
- **TL42SMB** matte black flange
- **TL42SORB** oil rubbed bronze flange
- **TL42SGB** german bronze flange
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.

**TL43R**
2” round lens pinhole

- TL43R2GMWWB matte white flange, white lens frame
- TL43R2GMWBB matte black flange, black lens frame
- TL43R2GBNBB brushed nickel flange, black lens frame
- TL43R2GBCuBB brushed copper flange, black lens frame
- TL43R2GMBBB matte black flange, black lens frame
- TL43R2GGBBB german bronze flange, black lens frame
- TL43R2GORBBB oil rubbed bronze flange, black lens frame

**TL44S**
2” square lens pinhole

- TL44S2GMWWB matte white flange, white lens frame
- TL44S2GMWBB matte black flange, black lens frame
- TL44S2GBNBB brushed nickel flange, black lens frame
- TL44S2GBCuBB brushed copper flange, black lens frame
- TL44S2GMWBB matte black flange, black lens frame
- TL44S2GGBBB german bronze flange, black lens frame
- TL44S2GORBBB oil rubbed bronze flange, black lens frame
- TL44S2GBCuBB brushed copper flange, black lens frame
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
TL45R6GMWWB
matte white flange, white lens frame
TL45R6GMWBB
matte white flange, black lens frame

TL46S
2” square lens wall wash pinhole
TL46S6GMWWB
matte white flange, white lens frame
TL46S6GMWBB
matte white flange, black lens frame

Candle Power Distribution
TIR50AWW25 asymmetric wall wash optic
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.
Housings
ML4 Housing Compatibility

**Halo LED**
H995ICAT, H995RICAT

**Halo Shallow Housings**
H99ICAT, H99RTAT, H99TAT, H1499ICAT, H1499RTAT, H1499T75, H1499TAT, E4ICATSB, E4TATSB, E4RTATSB

**Halo Ultra-Shallow Housings**
H245ICAT, H245RICAT

**Halo Surface Mount Housings**
HS4RMW, HS4RMB, HS4SMW, HS4SMB
The ML4 comes with a dedicated LED connector for High Efficacy luminaire compliance (California Title 24, International Energy Conservation Code) and is ULus Listed for installation with Halo® recessed LED housings (H995ICAT, H995RICAT).

The ML4 also includes an E26 Edison screw base adapter to accommodate many industry standard screw base housings. The series is ULus Listed and UL Classified for retrofit in Halo and other housings.

**COMPATIBILITY**

**FOR ETA4 REMODELER HOUSINGS**

- **Halo Standard Housings 4-inch**
  - H99ICAT = 4” IC, Air-Tite, Shallow New Construction Housing
  - H99TAT = 4” Non-IC, Air-Tite, Shallow Remodel Housing
  - E4ICATS = 4” IC, Air-Tite, Shallow New Construction Housing
  - E4TATS = 4” Non-IC, Air-Tite, Shallow Remodel Housing

- **Halo Low Voltage Housings 4-inch**
  - H1499CAT = 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
  - H1499RTAT = 4” Non-IC, Air-Tite, Shallow Remodel Housing, 120V - 12V Low Voltage MR16

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

**FOR ETA4ICAT REMODELER HOUSINGS**

- **Halo Standard Housings 4-inch**
  - H99TAT = 4” Non-IC, Air-Tite, Shallow New Construction Housing
  - H99RTAT = 4” Non-IC, Air-Tite, Shallow Remodel Housing

- **Halo Low Voltage Housings 4-inch**
  - H1499TAT = 4” Non-IC, Air-Tite, Shallow New Construction Housing, 120V - 12V Low Voltage MR16
  - H1499RTAT = 4” Non-IC, Air-Tite, Shallow Remodel Housing, 120V - 12V Low Voltage MR16

**COMPATIBILITY WITH COMPETITOR HOUSINGS**

- Utilitech CR04ICAT
- Lithonia Lighting® L3, L3R
- Juno® TC1, TC1R
- Thomas® PS4
- Commercial Electric™ HBR2000B
- Progress Lighting® P830-TG, P832-TG

**ACCESSORIES**

- **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.**

**H4NCMF Note:** Remodeler housings are installed after ceiling is installed.

**COMPATIBILITY WITH COMPETITOR HOUSINGS**

- Utilitech CR04ICAT, 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 registered 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
- 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 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>
ML56
LED downlighting system

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).
ML56 Module
LED light engine

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.

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

narrow flood (NFL) lens

BFR56NFL
narrow flood lens (NFL)

BFR56MH†
media holder
requires BFR56NFL & L345SF, ordered separately

L345SF
soft focus lens
requires BFR56NFL & BFR56MH, ordered separately
D2W™
Dim-to-warm technology

Dimming Profile

- 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 ML56 LED modules.
A complete luminaire consists of a housing, LED module and trim. Order separately.

<table>
<thead>
<tr>
<th>LED Modules</th>
<th>Beam Forming Optic / Media</th>
<th>ML56 System Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>600 Series</strong></td>
<td>ML5606927= 5”/6” LED module, 90CRI, 2700K</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>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>600 Series D2W - Dim to Warm Light Module</strong></td>
<td>ML5606D2W930= 5”/6” D2W to warm LED module, 600 lumen, 90CRI, 3000K to 1850K</td>
<td></td>
</tr>
<tr>
<td><strong>900 Series</strong></td>
<td>ML5609927= 5”/6” LED module, 90CRI, 2700K</td>
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<tr>
<td>ML5609930= 5”/6” LED module, 90CRI, 3000K</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>900 Series D2W - Dim to Warm Light Module</strong></td>
<td>ML5609D2W930= 5”/6” D2W to warm LED module, 900 lumen, 90CRI, 3000K to 1850K</td>
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<tr>
<td><strong>1200 Series</strong></td>
<td>ML5612927= 5”/6” LED module, 90CRI, 2700K</td>
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<tr>
<td>ML5612930= 5”/6” LED module, 90CRI, 3000K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML5612935= 5”/6” LED module, 90CRI, 3500K</td>
<td></td>
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<tr>
<td>ML5612940= 5”/6” LED module, 90CRI, 4000K</td>
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<tr>
<td><strong>D2W - Dim to Warm Light Module</strong></td>
<td>ML5612D2W930= 5”/6” D2W to warm LED module, 1200 lumen, 90CRI, 3000K to 1850K</td>
<td></td>
</tr>
</tbody>
</table>

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

- 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 ML56 LED modules.
**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&quot; LED Trims</strong></td>
<td><strong>ML56CLIP:</strong> Friction clip mounting kit - for retrofitting non-torsion spring housings, 6&quot; clips*&lt;br&gt;<strong>WW595SC</strong>-6&quot; Wall wash insert - kick reflector for 595WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>WW695SC</strong>-6&quot; Wall wash insert - kick reflector for 695WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>TRM590WH</strong>-5&quot; LED oversize trim ring for use with 59* series trims, white 6.9” I.D., 9.5” 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>TRM690WH</strong>-6&quot; 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&quot; LED trim, polymer “dead-front”, shallow white baffle &amp; flange – shallow and standard housings (For use with 600 Series LED light modules only)</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>592SC</strong>-5” LED trim, specular reflector &amp; white flange</td>
<td><strong>WW595SC</strong>-6&quot; Wall wash insert - kick reflector for 595WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>WW695SC</strong>-6&quot; Wall wash insert - kick reflector for 695WW (1-included with trim) double or corner wall wash**&lt;br&gt;<strong>TRM590WH</strong>-5&quot; 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>TRM690WH</strong>-6&quot; 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>593WB</strong>-5” LED trim, white micro-step baffle &amp; flange</td>
<td>*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.</td>
</tr>
<tr>
<td><strong>593SNB</strong>-5” LED trim, satin nickel micro-step baffle &amp; white flange</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>593TBZB</strong>-5” LED trim, tuscan bronze micro-step baffle &amp; flange</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>594WB</strong>-5” LED directional trim, white eyeball, baffle &amp; flange – shallow and standard housings</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>594SNB</strong>-5” LED directional trim, satin nickel eyeball, baffle &amp; flange – shallow and standard housings</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>594TBZB</strong>-5” LED directional trim, tuscan bronze eyeball, baffle &amp; flange – shallow and standard housings</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>595WW</strong>-5” LED trim, wall wash - specular reflector, repositionable specular kick reflector, white flange</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
<tr>
<td><strong>596WB</strong>-5” LED trim, white shallow baffle &amp; flange – shallow and standard housings</td>
<td><strong>ML56CLIP</strong> is compatible with 5” baffle and reflector trims only (691, 692, 693, 695, 696 series). For eyeball trim (694 series) use ML7RAB retrofit adapter band.</td>
</tr>
</tbody>
</table>

*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.*
**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
592 5” reflector
595 5” wall wash
596 5” shallow baffle

591WB white “dead front” shallow baffle (for 600 Series module only)
592W white
592SC specular clear
592H haze
595WW specular reflector
596WB white shallow baffle and trim

592W white
592SC specular clear
592H haze

593 5” baffle
594 5” eyeball

593WB white baffle and trim
593BB black baffle, white trim
593SN satin nickel baffle and trim
594WB white
594SN satin nickel
594TBZ tuscan bronze

593SN satin nickel
594TBZ tuscan bronze

Accessory
5” oversize trim ring

TRM590WH white

26 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

**695WW** specular reflector

**696WB** white shallow baffle and trim

**693WB** white baffle and trim

**693BB** black baffle, white trim

**693SN** satin nickel baffle and trim

**693TBZ** tuscan bronze baffle and trim

**694WB** white

**694SN** satin nickel

**694TBZ** tuscan bronze

---

**Accessory**

6” oversize trim ring

TRM690WH white
Housings
ML56 Housing Compatibility

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

Halo LED retrofit
6-inch: ML7E26RFK, ML7BXFK

Halo Standard Housings
6-inch: H7ICAT, H7RICAT, H7ICT, H7RICNT, H7ICATNB, 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
## 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>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>
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<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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<td>Juno Shallow Housings</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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<td>Capri Shallow Housings</td>
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<td>R9ASIC/PS9RM</td>
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<td>Elco</td>
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<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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<tr>
<td>Lithonia Lighting Shallow Housing</td>
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<td>L7XP</td>
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<td>Thomas</td>
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<td>PS1</td>
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<td>Commercial Electric</td>
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<td>C7ICA, H3</td>
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<td>Progress Standard Housing</td>
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<td>P87-AT†</td>
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<td>Lightolier</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.

Junol®, Capri, Lightolier®, Lithonia Lighting®, Thomas® Lighting, Elco Lighting®, Progress® Lighting and Commercial Electric™ and their product brand names, where identified above, are tradenames or trademarks of each respective company and Eaton makes no representations on these trademarks.
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.
Our Lighting Product Lines
- Halo
- Halo Commercial
- Portfolio
- IRiS
- RSA
- Metalux
- Corelite
- Neo-Ray
- Fail-Safe
- MWS
- Ametrix
- Shaper
- io
- Lumark
- McGraw-Edison
- Invue
- Ephesus
- Lumière
- Streetworks
- AtLite
- Sure-Lites

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