HALO LED Slope Ceiling Solutions

Featuring unique interchangeable beam-forming optics, full range dimming and multiple color temperatures and trim options, the Halo ALLSLOPE LED Downlight System is specifically designed for slope ceiling applications with pitch aiming from 2/12 (10 degrees) to 12/12 (45 degrees). The innovative design allows the LED light engine full adjustment capability so it can be aimed straight down in accordance with the ceiling pitch, resulting in outstanding performance and appearance. The three-piece system consists of a choice of a 6-inch aperture housing, available in 1200 lumens or 1800 lumens, an LED light engine with three interchangeable optics and a trim selection from a full line of compatible trims including reflectors, baffles and lens choices. The high-efficiency, energy-saving solution provides up to 73 percent in energy savings with virtually no maintenance for residential, hospitality, retail and institutional needs.

Innovation you can rely on™
HALO HL6 ALLSLOPE
6” LED Slope Ceiling Downlight

A LED Housing
- HL6 ALLSLOPE LED features an internal aiming mechanism to align the LED light engine straight down regardless of ceiling pitch. The HL6 is a true ALLSLOPE fixture with ability to adjust for any slope ceiling from 2/12 to 12/12 pitch.
- The socket aiming mechanism adjusts to tilt the lamp straight down backed upon ceiling pitch. A rotational collar allows trim alignment of up to 20 degree side-to-side rotation in ceiling corners with compound angles.
- LED driver is integrated in the housings for optimized lumen delivery.
- Two AIR-TITE™ housings are offered in 1200 Series Insulated Ceiling and 1800 Series Non-Insulated Ceiling.

B LED Light Engine
- 90 Color Rendering Index (CRI)
- Correlated Color Temperature (CCT) options: 2700K, 3000K, 3500K, 4000K
- LED is a chip on board design consisting of a multiple LED package with proximity phosphor coating to create one virtual white light source for a productive cone of light
- Exclusively designed for the HL8 slope housings, the form-factor and performance replicate expected PAR lamp qualities in a high lumen LED light engine
- Specially designed heat sink conducts heat away from the LED to maintain LED junction temperatures
- Designed for interchangeable lenses optics
  + 25° Narrow Flood (order separately)
  + 40° Flood (included with light engine)
  + 55° Wide Flood (order separately)

C LED Trim
- A wide selection of slope ceiling trims include reflectors, baffles, and lens styles
- The slope ceiling trims feature full contours that provide shielding and conform to ceiling slopes
- Trim options include Halo signature Coilex® baffle in white and black; reflectors in specular clear, semi-specular (haze), satin nickel and tuscan bronze; as well as lenses in flat, drop glass, and drop plastic styles for wet location listing in showers and protected ceilings (porches and soffits).

D AIR-TITE™ Construction
- Certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 1200 Series Insulated ceiling and 1800 Series Non-Insulated ceiling models

ALLSLOPE Housings

HL612CAT – 1200 Series Insulated Ceiling Housing
- Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficiency requirements. Certified to California Title 24 Residential Efficiency Database.

HL618TAT – 1800 Series Non-Insulated Ceiling Housing
- Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficiency requirements. Certified to California Title 24 Non-Residential Lighting Controls requirements as 120V luminaires.

E Aiming Mechanism
- Exclusive socket aiming mechanism tilts to properly align the LED light engine
- LED light engine may be tilted and locked from 2/12 to 12/12 pitch (10° to 45° slope angle)
- Keyed opening in the socket plate matches tabs and blade springs of the turn-to-lock base on the LED light engine
- Two wing nuts for tool-less locking to desired pitch
- Pitch increments are stamped on side of mechanism for ease in pre-setting pitch

F Rotational Collar
- Rotational collar allows lateral adjustment up to 20°
- Brass knurled nut for backlash adjustment
- Rotation provides alignment of the LED light engine and trim to compound slope ceilings requiring off-axis aiming
- Degree increments are stamped inside of collar to pre-set rotation angle

G LED Quick Connect
- LED connector is a plug-in quick-connect that offers tool-less installation of the LED light engine
- Provides low voltage connection from the LED driver in the housing to the LED light engine

H LED Dimmable Driver
- 120V-277V 50/60 Hz universal voltage, constant current dimmable driver
- Meets FCC 47CFR Part 15 EMI/RFI consumer limits for residential and commercial use
- Driver features high power factor, low THD and integral thermal protection
- Can also be operated from a standard wall switch
- Serviceable through the housing with internal accessibility
- Dual dimming capability offers wide use in residential and commercial spaces*
  - 0-10V Phase Control Dimmers to nominal 5%
  - 0-5V Dimmers to nominal 10%
*Consult dimmer manufacturer for compatibility and conditions of use.
HALO HL6 LED ALLSLOPE

Light Engines

- LED light engines are designed exclusively for the HL6 ALLSLOPE housing system and feature the form-factor and performance that replicate PAR lamp qualities in a high lumen LED light engine
- LED package has precisely phosphor over high-density chip on board LEDs to provide a uniform source with high efficiency and no pulsation
- A light chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- Every Halo LED engine is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI, and CCT
- Hals LED-sealed testing and measurement ensures color and lumen consistency over time
- A turn-lock base provides secure retention of the LED light engine to the housing’s armament housing, and provides a light-tight electrical quick-connector
- Interchangeable lens optics feature beam distributions with refined visual shielding to control beam angle and lumen delivery in accommodating various slope ceiling heights

Light Engine Performance

- Open reflector and baffle trims:
  - 1560 – 1760 lumens with HL612ICAT (1200 series) insulated ceiling housing
  - 1770-2380 lumens with HL618TAT (1800 series) non-insulated ceiling housing
- Lens trims:
  - 340-1260 lumens with HL612ICAT insulated ceiling housing
  - 370-1650 lumens with HL618TAT non-insulated ceiling housing
- Correlated Color Temperature options include 2700K, 3000K, 3500K, and 4000K
- High color performance is delivered at 90 CRI minimum and R9 greater than 50
- LED color uniformity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377-2008
- Lumen maintenance L70 at 50,000 hours in accordance with IES LM-80 and TM-21
- Designed for use with interexchangeable lens optics:
  - 25° Narrow Flood (order separately)
  - 40° Flood (included with light engine and available separately)
  - 55° Wide Flood (order separately)
- The lens holder ring is designed exclusively for attachment to the HL6 LED light engine with three snap-on tabs for ease in changing lenses

LED Energy Savings – HL612ICAT (1200 Series Housing)

HLS ALLSLOPE replaces traditional light sources used for slope ceiling downlighting, and provides significant energy savings

- HL6 LED 1200 Series
  - 19 Watt
  - HL6 LED IC housing (HL612ICAT)
  - 3000K (HL618TAT)
  - Haze trim (HL6H565H)
  - 5500 hrs. L70
  - $8.45 yr. Energy cost*

PAR38 IR Lamp

- 70 Watt
- PAR38/WRC – Infrared Halogen
- 2900K
- 4,200 hrs. Life
- 5650 lumens
- $23.76 yr. Energy cost*

HLS LED 1800 Series

- 27 Watt
- HL6 LED NON-IC housing (HL618TAT)
- 3000K (HL6M930)
- Haze trim (HL6H565H)
- 50,000 hrs. L70
- 2032 lumens
- $9.16 yr. Energy cost*

Replaces

- Saves up to 73%

PAR38 IR Lamp

- 100 Watt
- INSW/IRC – Infrared Halogen
- 2800K
- 4,200 hrs. Life
- 2200 lumens
- $33.95 yr. Energy cost*

Note on energy saving and yearly energy costs:

- Lamp replacement comparisons and images are for general illustration of lumen equivalents, and not specific application. Field requirements may vary and regime analysis and specification by professional is required.
- Energy savings are calculated for 12 hours operation per day at 360 degrees (180 hrs/yr), with average electric cost of $0.1550 /kWh based upon the average of MA, NJ, NY, IL and CA residential data, other areas may be more or less.
- LED lumens are delivered values, used here as representative for each respective product series. Lumen values may vary based upon the options selected for CCT (Correlated Color Temperature) and trim finish.

Lens Optics

HLS LED system incorporates interchangeable lens optics in three beam distributions that offer refined visual shielding to control beam angle and lumen delivery accommodating various ceiling heights. Beam-forming lens optic choices offer customers the ability to adjust the cone of light beam angle in proportion to ceiling height while maintaining the punch needed for higher ceiling heights typical in slope ceiling construction.

- Lens optics provide beam distributions that have been precisely designed in relation to the LED lens light emitting surface. The HLS LED optics achieve refined beam angles that surpass expectation of traditional reflector lamp sources
- Interchangeable lens:
  - 25° Narrow Flood (order separately)
  - 40° Flood (included with light engine and available separately)
  - 55° Wide Flood (order separately)
- The lens holder ring is designed exclusively for attachment to the HL6 LED light engine with three snap-on tabs for ease in changing lenses

LED Energy Savings – HL618TAT (1800 Series Housing)
## HALO HL6 LED ALLSLOPE

### 6" Reflector Trims

<table>
<thead>
<tr>
<th>Reflector Options</th>
<th>Accessories Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Haze</td>
<td>OT400P = Oversize flat white metal trim ring 6&quot; I.D. x 9-1/4&quot; O.D. (oversize ring slips behind the trim ring, in stepped configuration) TRM690WH = Oversize matte white metal trim ring. Designed for trim ring to inset into oversize ring for an even non-stepped trim surface</td>
</tr>
<tr>
<td>Satin Nickel</td>
<td>OT403P = Oversize white plastic trim ring 6&quot; I.D. x 8&quot; O.D. (oversize ring slips behind the trim ring, in stepped configuration)</td>
</tr>
<tr>
<td>Tuscan Bronze</td>
<td></td>
</tr>
</tbody>
</table>

### 6" Coilex® Baffle Trims

<table>
<thead>
<tr>
<th>Baffle Options</th>
<th>Accessories Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>One piece seamless Coilex® Baffle</td>
<td>TRM6PP = White Metal TRM6CP = Chrome Metal TRM6SNP = Satin Nickel Metal TRM6TBZP = Tuscan Bronze Metal TRM6MBP = Black Metal TRM6MP = Black Polymer</td>
</tr>
</tbody>
</table>

### 6" Coilex® Baffle: White Baffle, White Metal Trim Ring, Coil Spring Retention

### 6" Coilex® Baffle: Black Baffle, White Metal Trim Ring, Coil Spring Retention

### 6" Reflector Options

<table>
<thead>
<tr>
<th>Reflector Options</th>
<th>Accessories Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>455SC</td>
<td>Specular Clear Haze Reflector, White Metal Trim Ring, Coil Spring Retention</td>
</tr>
<tr>
<td>455H</td>
<td>Semi-Specular Haze Reflector, White Metal Trim Ring, Coil Spring Retention</td>
</tr>
<tr>
<td>455SN</td>
<td>Satin Nickel Reflector, Satin Nickel Metal Trim Ring, Coil Spring Retention</td>
</tr>
<tr>
<td>455TBZ</td>
<td>Tuscan Bronze Reflector, Tuscan Bronze Metal Trim Ring, Coil Spring Retention</td>
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</tbody>
</table>

### 6" Lens and Diffuser Trims

<table>
<thead>
<tr>
<th>Lens and Diffuser Options</th>
<th>Accessories Available</th>
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</thead>
<tbody>
<tr>
<td>70P</td>
<td>Albalite Glass Lens, White Polymer Trim Ring</td>
</tr>
<tr>
<td>70PS</td>
<td>Albalite Glass Lens, White Polymer Trim Ring, Wet Location “Dead Front” - Showlight</td>
</tr>
<tr>
<td>70SNS</td>
<td>Albalite Glass Lens, Satin Nickel Polymer Trim Ring, Wet Location “Dead Front” - Showlight</td>
</tr>
</tbody>
</table>

### 71P

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>• White trim with glass Drop Opal Lens</td>
</tr>
<tr>
<td>• 71PS is wet location listed</td>
</tr>
<tr>
<td>• 71PS has “Dead Front”</td>
</tr>
<tr>
<td>• Non-conductive, non-corrosive gasketed polymer trim ring</td>
</tr>
<tr>
<td>• Torsion spring retention</td>
</tr>
</tbody>
</table>

### 71PS

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>• White trim with glass Drop Opal Lens</td>
</tr>
<tr>
<td>• 71PS is wet location listed for use in showers</td>
</tr>
<tr>
<td>• “Dead Front” Non-conductive, non-corrosive gasketed polymer trim ring</td>
</tr>
<tr>
<td>• Torsion spring retention</td>
</tr>
</tbody>
</table>

### 73P

<table>
<thead>
<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>• White trim with glass Fresnel Lens</td>
</tr>
<tr>
<td>• 73PS is wet location listed for use in showers</td>
</tr>
<tr>
<td>• 73PS has “Dead Front”</td>
</tr>
<tr>
<td>• Non-conductive, non-corrosive gasketed polymer trim ring</td>
</tr>
<tr>
<td>• Torsion spring retention</td>
</tr>
</tbody>
</table>

### 73PS

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>• White trim with glass Fresnel Lens</td>
</tr>
<tr>
<td>• 73PS is wet location listed for use in showers</td>
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<tr>
<td>• 73PS has “Dead Front”</td>
</tr>
<tr>
<td>• Non-conductive, non-corrosive gasketed polymer trim ring</td>
</tr>
<tr>
<td>• Torsion spring retention</td>
</tr>
</tbody>
</table>

### Trim Attachments

Reflector Baffles - Coil Springs: Coil spring hook attaches to vertical slots in the sides of aiming mechanism. Slip-fit on spring allows positioning of finger hold loop inside the trim for ease of installation.
HALO HL6 LED ALLSLOPE

Housing – Features

• Three slope ceiling housings to choose:
  • Insulated ceilings (HL612ICAT)
  • Non-insulated ceilings (HL618TAT)
  • Non-insulated Chicago Plenum ceilings (HL618TCP)

• ICAT and Tat designated housings are AIR-TITE™ certified per ASTM E283

• Include standard Halo features:
  • Got Nail™ Bar hangers with pre-installed nail and integral T-grid clip
  • Side-N-Tite™ wire traps and quick-connects for tool-less wiring outside the junction box
  • Pass-N-Thru™ bar hanger feature for tool-less shortening of bars without removal from frame

• LED Driver is accessible inside the housing

• 120V/277V 50/60Hz universal voltage, constant current dimmable driver

• Meets FCC 47CFR Part 15 EMR/RFI consumer limits for residential and commercial use

• High power factor, low THD, and integral thermal protection

• Can be operated from a standard wall switch if dimming is not required

• Dual dimming capability offers wide use in residential and commercial spaces*

• 120V Phase Control dimmers to nominal 5%

• 0-10V dimmers to nominal 10%

*Consult dimmer manufacturer for compatibility and conditions of use. Note some dimmers require a neutral in the wallbox.

HALO HL612ICAT – Specifications

Insulated Ceiling, New Construction Housing

• dLux 1598 Type IC, suitable for direct contact with insulation*

• Listed for damp locations

• Watertight listed with designated lens trims

• AIR-TITE™

• Certified per ASTM E283; not exceeding 2.0 CFM under 75 Pascals pressure difference

• Energy Code compliant

• ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List

• Can be used for California Title 24 residential or non-residential compliance – Title 20 certified

• Can be used for International Energy Conservation Code (IECC) compliance

• Can be used for Washington State Energy Code compliance

• EMLR® per FCC 47CFR Part 15 Class B Consumer limits (residential and commercial compliance)

• Contains no mercury or lead and RoHS compliant.

• Chicago Plenum model (HL618TCP) is specifically constructed and marked for Chicago Plenum applications (CCEA)

• Junction box features a separate compartment for 0-10V DC low voltage dimming connections, to comply with NEC.

HALO HL618TAT & HL618TCP – Specifications

Non-Insulated Ceiling, New Construction Housing

• dLux 1598 Type Non-IC, if insulation is present it must be kept 3” from sides and top of housing

• Listed for damp locations

• Watertight listed with designated lens trims

• AIR-TITE™

• Certified per ASTM E283; not exceeding 2.0 CFM under 75 Pascals pressure difference

• Energy Code compliant

• ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List

• Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire

• EMLR® per FCC 47CFR Part 15 Class B Consumer limits (residential and commercial compliance)

• Contains no mercury or lead and RoHS compliant.

• Chicago Plenum model (HL618TCP) is specially constructed and marked for Chicago Plenum applications (CCEA)

• Junction box features a separate compartment for 0-10V DC low voltage dimming connections, to comply with NEC.

ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficiency requirements. Certified to California Title 20 Appliance Efficiency Database.
**HALO HL6 LED ALLSLOPE**

Application Modeling – Simulation #1 (12/12 Pitch – 1800 Series)

<table>
<thead>
<tr>
<th>12/12 Pitch Value</th>
<th>Avg. fc</th>
<th>Max. fc</th>
<th>Min. fc</th>
<th>Avg/Min</th>
<th>Max/Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>5° NFL</td>
<td>23.91</td>
<td>40.10</td>
<td>3.60</td>
<td>6.64</td>
<td>11.14</td>
</tr>
<tr>
<td>40° FL</td>
<td>23.91</td>
<td>40.10</td>
<td>3.60</td>
<td>6.64</td>
<td>11.14</td>
</tr>
<tr>
<td>55° WFL</td>
<td>23.91</td>
<td>40.10</td>
<td>3.60</td>
<td>6.64</td>
<td>11.14</td>
</tr>
</tbody>
</table>

**Simulation #1**
Steep 12/12 pitch slope ceiling
Room Data
12/12 Pitch (45° angle)
5’ x 6’ Spacing
20’ X 24’ Room

**Luminaire Data**
HL618TAT (1800 Series)
2700K HLM6927
Haze trim 455H

**Simulation #2**
Steep 2/12 pitch slope ceiling
Room Data
2/12 Pitch (10° angle)
5’ x 6’ Spacing
20’ X 24’ Room

**Luminaire Data**
HL612ICAT (1200 Series)
2700K HLM6927
Haze trim 455H

**Room Data**
12/12 Pitch (45° angle)
5’ x 6’ Spacing
20’ X 24’ Room

**Luminaire Data**
HL618TAT (1800 Series)
2700K HLM6927
Haze trim 455H

**Simulation #2**
Steep 2/12 pitch slope ceiling
Room Data
2/12 Pitch (10° angle)
5’ x 6’ Spacing
20’ X 24’ Room

**Luminaire Data**
HL612ICAT (1200 Series)
2700K HLM6927
Haze trim 455H

**Room Data**
2/12 Pitch (10° angle)
5’ x 6’ Spacing
20’ X 24’ Room

**Luminaire Data**
HL612ICAT (1200 Series)
2700K HLM6927
Haze trim 455H

**Values**
- Avg. fc: 24.70
- Max. fc: 48.20
- Min. fc: 15.00
- Avg/Min: 16.07
- Max/Min: 32.20

**Floor Plan View**

**Isometric View**

**Side View 12/12 Pitch**

**Floor Plan View**

**Isometric View**

**Side View 2/12 Pitch**

**Floor Plan View**

**Isometric View**

**Side View 2/12 Pitch**
## Lumen & Energy Code Compliance Summary – HL618TCP & HL618AT (1800 Series)

<table>
<thead>
<tr>
<th>Lumen &amp; Energy Code Compliance Summary – HL612CAT (1200 Series)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70PS</td>
</tr>
<tr>
<td>71PS</td>
</tr>
<tr>
<td>70PS</td>
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<tr>
<td>45SP</td>
</tr>
<tr>
<td>45SFB</td>
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<tr>
<td>455SN</td>
</tr>
<tr>
<td>455N</td>
</tr>
<tr>
<td>456W</td>
</tr>
<tr>
<td>455SC</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Lumen &amp; Energy Code Compliance Summary – HL612TCP &amp; HL618TCP (1800 Series)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF58</td>
</tr>
<tr>
<td>SF59</td>
</tr>
<tr>
<td>SF610</td>
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<td>SF59</td>
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<td>SF59</td>
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</tbody>
</table>

**Energy Codes**

ES: Refer to the ENERGY STAR® Certified Products List.
T24: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
T24NR: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
IECC: Can be used to comply with International Energy Conservation Code Residential Energy Efficiency, High Efficacy Luminaires.

Notes: Energy code compliance is noted as of publication. Energy codes, product compliance and product specifications are subject to change without notice. For the latest information on codes and applicable product compliance consult the code authority.
Order LED housing, LED engine with lens optic, and trim separately for a complete luminaire.

**DEVICES**

**A**

**LED Housing**

**B**

**LED Engine with Light Optic**

**C**

**LED Trims**

### HALO HL612ICAT

**Housing Description**

<table>
<thead>
<tr>
<th>Model</th>
<th>Housing Type</th>
<th>Color</th>
<th>TRM</th>
<th>Reflector</th>
<th>CRI</th>
<th>CCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLM6930</td>
<td>LED Housing</td>
<td>3000K</td>
<td>EFL</td>
<td>Frosted</td>
<td>90</td>
<td>2700</td>
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<tr>
<td>HLM6927</td>
<td>LED Housing</td>
<td>4000K</td>
<td>EFL</td>
<td>Frosted</td>
<td>90</td>
<td>4000</td>
</tr>
</tbody>
</table>

### HALO HL618TAT & HL618TCP

**Housing Description**

<table>
<thead>
<tr>
<th>Model</th>
<th>Housing Type</th>
<th>Color</th>
<th>TRM</th>
<th>Reflector</th>
<th>CRI</th>
<th>CCT</th>
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</thead>
<tbody>
<tr>
<td>HL618TAT</td>
<td>LED Housing</td>
<td>3000K</td>
<td>EFL</td>
<td>Frosted</td>
<td>90</td>
<td>2700</td>
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<tr>
<td>HL618TCP</td>
<td>LED Housing</td>
<td>4000K</td>
<td>EFL</td>
<td>Frosted</td>
<td>90</td>
<td>4000</td>
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</tbody>
</table>

### Trims Description

<table>
<thead>
<tr>
<th>Model</th>
<th>Trim Type</th>
<th>Color</th>
<th>TRM</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRM6TBZ</td>
<td>Tuscan Bronze</td>
<td>TBZ</td>
<td>EFL</td>
<td>Tuscan bronze designer trim ring (for 455 and 456 trims)</td>
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<tr>
<td>TRM6P</td>
<td>Chrome</td>
<td>MB</td>
<td>EFL</td>
<td>Chrome metal designer trim ring (for 455 and 456 trims)</td>
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<tr>
<td>TRM6MB</td>
<td>Chrome Black</td>
<td>MB</td>
<td>EFL</td>
<td>Black metal designer trim ring (for 455 and 456 trims)</td>
</tr>
<tr>
<td>TRM6C</td>
<td>Black</td>
<td>MB</td>
<td>EFL</td>
<td>Black polymer designer trim ring (for 455 and 456 trims)</td>
</tr>
<tr>
<td>TRM690WH</td>
<td>White</td>
<td>MB</td>
<td>EFL</td>
<td>White metal designer trim ring (for 455 and 456 trims)</td>
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<tr>
<td>TRM6WFL</td>
<td>Wide Flood</td>
<td>MB</td>
<td>EFL</td>
<td>Wide flood lens trim ring (NFL Optic)</td>
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<tr>
<td>TRM6NFL</td>
<td>Narrow Flood</td>
<td>MB</td>
<td>EFL</td>
<td>Narrow flood lens trim ring (NFL Optic)</td>
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</table>

### Accessories Description

<table>
<thead>
<tr>
<th>Model</th>
<th>Accessory Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>TRM618</td>
<td>Oversize</td>
<td>Oversize gloss white polymer trim ring, for use with 6&quot; trim (for 455 and 456 trims)</td>
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<tr>
<td>TRM619</td>
<td>Oversize</td>
<td>Oversize white metal trim ring, for use with 6&quot; trim (for 455 and 456 trims)</td>
</tr>
</tbody>
</table>

### Lighting Control Solutions

**AL All Load Dimmers**

Eaton’s AL Series 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 (scrollless) style devices and wallplates. Refer to www.cooperwiringdevices.com for additional information.

---

**HALO HL6 LED ALLSLOPE**

6/12 Pitch • 1200 Series • 90 CRI

### Multiplier Table

<table>
<thead>
<tr>
<th>CCT</th>
<th>3000 K</th>
<th>3500 K</th>
<th>4000 K</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>9.00</td>
<td>7.10</td>
<td>5.50</td>
</tr>
<tr>
<td>150</td>
<td>6.10</td>
<td>4.10</td>
<td>3.00</td>
</tr>
<tr>
<td>250</td>
<td>3.60</td>
<td>2.30</td>
<td>1.50</td>
</tr>
</tbody>
</table>

### Zonal Lumen Summary

<table>
<thead>
<tr>
<th>CCT</th>
<th>3000 K</th>
<th>3500 K</th>
<th>4000 K</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>9.00</td>
<td>7.10</td>
<td>5.50</td>
</tr>
<tr>
<td>150</td>
<td>6.10</td>
<td>4.10</td>
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</tr>
<tr>
<td>250</td>
<td>3.60</td>
<td>2.30</td>
<td>1.50</td>
</tr>
</tbody>
</table>

---

Product availability, specifications, and compliances are subject to change without notice.

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Product availability, specifications, and compliances are subject to change without notice.
HALO HL6 LED ALLSLOPE
6/12 Pitch • 1800 Series • 90 CRI

Multiplier Table

<table>
<thead>
<tr>
<th>CCT Option</th>
<th>2700 K</th>
<th>3000 K</th>
<th>3500 K</th>
<th>4000 K</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCT Multiplier</td>
<td>0.925</td>
<td>1.000</td>
<td>1.061</td>
<td>1.120</td>
</tr>
</tbody>
</table>

Table based upon testing with 3000°K color temperature. Multipliers may be used to determine relative lumen values with other color temperatures.

**Zonal Lumen Summary**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30</td>
<td>1062</td>
<td>52.3</td>
</tr>
<tr>
<td>0-40</td>
<td>1592</td>
<td>78.3</td>
</tr>
<tr>
<td>0-60</td>
<td>2007</td>
<td>98.8</td>
</tr>
<tr>
<td>0-90</td>
<td>2032</td>
<td>100</td>
</tr>
<tr>
<td>90-180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0-180</td>
<td>2032</td>
<td>100</td>
</tr>
</tbody>
</table>

**Test Number**
P130104

**Light Module**
1800 Series, 90CRI

**Lens Optic**
55° Wide Flood

**Trim**
6” Aperture, Haze Trim

**Lumens**
2137 Lm

**Efficacy**
77.4 Lm/W

**CCT**
3000K

**SC (0/90/45)**
1.45 / 0.76 / 1.17

**Candlepower Distribution**

---

**Cone of Light**

---

**Zonal Lumen Summary**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30</td>
<td>1044</td>
<td>49.6</td>
</tr>
<tr>
<td>0-40</td>
<td>1702</td>
<td>80.8</td>
</tr>
<tr>
<td>0-60</td>
<td>2086</td>
<td>99.1</td>
</tr>
<tr>
<td>0-90</td>
<td>2106</td>
<td>100</td>
</tr>
<tr>
<td>90-180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0-180</td>
<td>2106</td>
<td>100</td>
</tr>
</tbody>
</table>

**Test Number**
P130027

**Light Module**
1800 Series, 90CRI

**Lens Optic**
40° Flood

**Trim**
6” Aperture, Haze Trim

**Lumens**
2032 Lm

**Efficacy**
73.6 Lm/W

**CCT**
3000K

**SC (0/90/45)**
1.6 / 0.65 / 1.06

**Candlepower Distribution**

---

**Cone of Light**

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**Zonal Lumen Summary**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30</td>
<td>1035</td>
<td>49.3</td>
</tr>
<tr>
<td>0-40</td>
<td>1590</td>
<td>79.2</td>
</tr>
<tr>
<td>0-60</td>
<td>2005</td>
<td>98.9</td>
</tr>
<tr>
<td>0-90</td>
<td>2027</td>
<td>100</td>
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<tr>
<td>90-180</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0-180</td>
<td>2027</td>
<td>100</td>
</tr>
</tbody>
</table>

**Test Number**
P130064

**Light Module**
1800 Series, 90CRI

**Lens Optic**
25° Narrow Flood

**Trim**
6” Aperture, Haze Trim

**Lumens**
2106 Lm

**Efficacy**
76.3 Lm/W

**CCT**
3000K

**SC (0/90/45)**
1.94 / 0.73 / 1.15

**Candlepower Distribution**

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**Cone of Light**

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Photometric tests are per IES measurement standards. Tests represent typical fixture performance. Field results may vary.

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F: 905-501-3172

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RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
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Lumark
McGraw-Edison
Invue
Lumière
Streetworks
AtLite
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Fifth Light Technology
iLight (International Only)