# HALO

## DESCRIPTION

The Halo LA4 LED Adjustable Downlight series are adjustable LED Modules for 4" aperture recessed downlights. The LA4 gimbals feature adjustment of 35-degree tilt and up to 360-degree rotation. The lens provides uniform illumination and wet location listing.. Precision construction makes any housing AIR-TITE for added savings and code compliance.

| | | |
|---|---|---|
| Catalog # | | Type |
| Project | | |
| Comments | | Date |
| Prepared by | | |

## SPECIFICATION FEATURES

### Module - Trim
- Module construction includes LED Array, heat sink, reflector, lens, baffle and trim ring.
- Heat sink designed to conduct heat away from the LED Array, keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments

### Lens
- Regressed lens
- Impact-resistant polycarbonate
- Diffusing for even illumination

### LED Array
- Mid power LED array provides a uniform source with high efficiency and no pixilation.
- 90 CRI minimum, R9 greater than 50
- Color accuracy within 3 SDCM provide color accuracy and uniformity.
- Color Temperatures (CCT) available in 2700K, 3000K, 3500K, 4000K, or 5000K

### Optical Assembly
- Regressed lens
- Impact-resistant polycarbonate
- Diffuse for even illumination

### Driver
- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 10%.
- Inline electrical quick connect and E26 adapter (provided) provides mains connections
- Consult instruction sheets and for more information

### Retention
- Push-N-Twist universal installation clips
- Clips are pre-installed and designed to fit 4" compatible recessed housings

### Gaskets
- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

### Compliance
- UL Certified
- Wet and Damp location listed.
- Airtight certified per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance. Complies with Title 24 JA8-2016-E.
- Can be used International Energy Conservation Coe (IECC) and Washington State Energy Code high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

### Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com



## LA4

## 4-inch All-Purpose LED Adjustable Downlight

**600 Series**

**For use in insulated ceiling and non-insulated ceiling rated housings**

**High-efficacy LED with integral driver - dimmable**

90 CRI nominal CCT 2700K 3000K 3500K 4000K 5000K

ENERGY STAR

Can be used for IECC International Energy Conservation Code High Efficacy Compliance

Efficiency Standards T24 Can be used to comply with 2016 Title 24 Part 6 LED Enclosed Light Source Requirements (JA8) *

Efficiency Standards T20 California Title 20 Certified LED Tier 1 Lamp

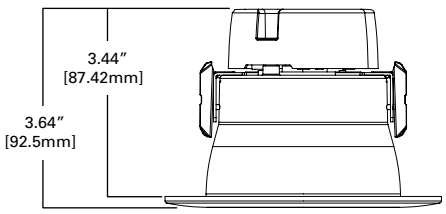
RoHS

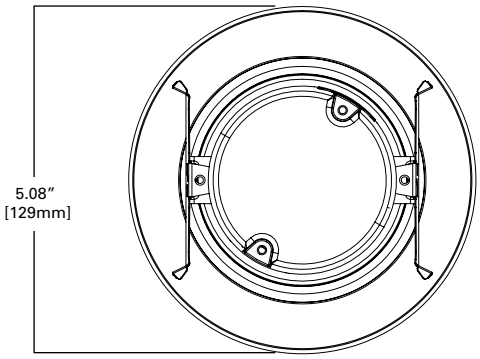
UL CERTIFIED SAFETY

Showerlight

air-tite

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.
*5000K is not covered under T24.




## ENERGY DATA

| Lumens | 600 Series |
|---|---|
| Input Voltage | 120V |
| Input Current | 74 (mA) |
| Input Power | 8.6 (W) |
| Inrush (A) | 1.1 |
| THD: ≤ 20% | |
| PF: ≥ 0.90 | |
| T Ambient -30 - +40°C | |
| Sound Rating ≤ 22dba | |

## ORDERING INFORMATION

**SAMPLE NUMBER:** LA4069301EWH
A complete luminaire consists of a housing and LED module, order separately.

| Models | Lumens | CRI / CCT | Driver | Finish |
|---|---|---|---|---|
| **LA4** = 4-Inch LED Adjustable Gimbal | **06**=600 lumen (nominal) | **927**=90 CRI, 2700K<br>**930**=90 CRI, 3000K<br>**935**=90 CRI, 3500K<br>**940**=90 CRI, 4000K<br>**950**=90 CRI, 5000K | **1E**= 120V 60Hz leading or trailing edge phase cut 10% dimming | **WH**= matte white baffle |

### Housings

**Halo Ultra-shallow LED Housings**
**H245ICAT**=4" IC, airtight ultra-shallow new construction housing, LED, 120 - 277V
**H245RICAT**=4" IC, airtight ultra-shallow remodeler housing, LED, 120 - 277V

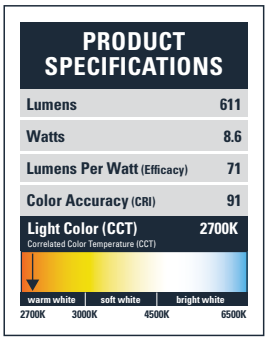
**Halo LED Housings**
**H995ICAT**=4" IC, airtight shallow new construction housing, LED, 120 - 277V
**H995RICAT**=4" IC, airtight shallow remodeler housing, LED, 120 - 277V

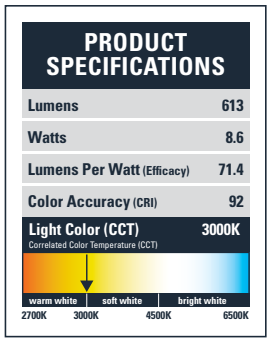
**Halo Housings**
**H99TAT**=4" non-IC, airtight shallow new construction housing, E26, 120V
**H99RTAT**=4" non-IC, airtight shallow remodeler housing, E26, 120V
**H99ICAT**=4" IC, airtight shallow new construction housing, E26, 120V
**E4TATSB**=4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V
**E4RTATSB**=4" non-IC, airtight shallow remodeler housing, adjustable socket bracket, E26, 120V
**E4ICATSB**=4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V

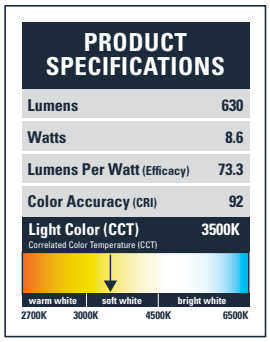
## LA4 Series LED Retrofit is UL Classified for retrofit in the following 4" recessed housings:

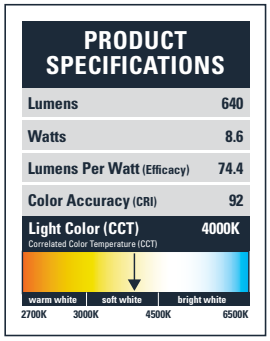
The LA4 Series LED light module - trim combination is UL Certified for use with any 4" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in$^3$ in addition to those noted above.

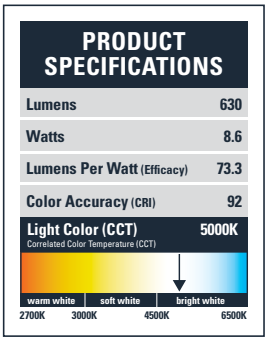
## Product Specifications



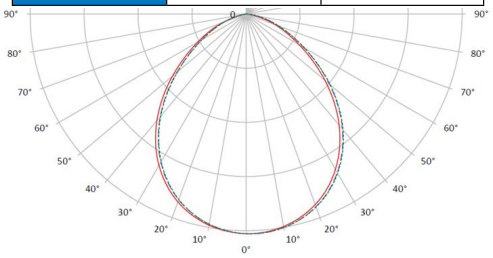




## Photometric Data*

| LA4069301EWH | | |
|---|---|---|
| Luminaire lumens | | 613 |
| Input watts | | 8.6 |
| LER (LPW) | | 71.3 |
| Spacing Criteria | 0-180 | 1.22 |
| | 90-270 | 1.24 |
| | Diagonal | 1.28 |
| Beam angle (degrees) | | 95.5 |
| Field angle (degrees) | | 144.6 |
| **Zonal lumen** | **Lumens** | **% Lumens** |
| 0-30 | 207 | 33.8 |
| 0-40 | 331 | 54 |
| 0-60 | 534 | 87.1 |
| 0-90 | 613 | 100 |




* Tested in accordance with IES LM63. Field results may vary.