

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO

### RA4 | Selectable CCT

4" All-Purpose LED retrofit module with SeleCCTable switch  
600 Lumen Series

#### Typical Applications

Residential

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#### Product Certification



Refer to ENERGY STAR® Certified Products List.  
Can be used to comply with California Title 24 High Efficiency requirements.  
Certified to California Appliance Efficiency Database under JAB.

#### Product Features

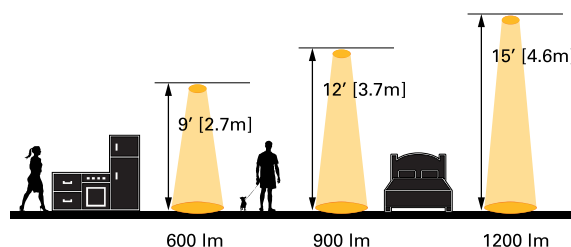
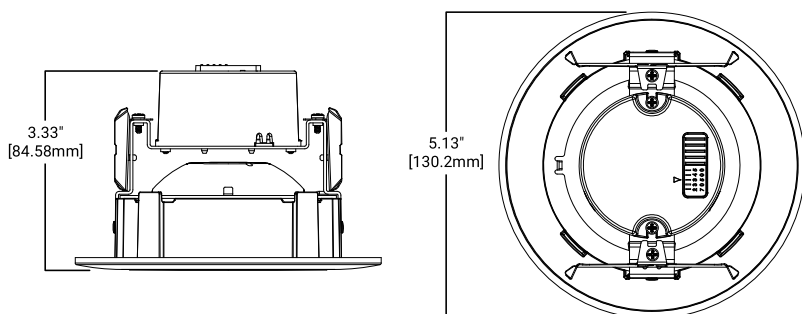


#### Top Product Features

- Adjustable gimbal offers 35-degree tilt and up to 360-degree rotation
- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT
- 600 lumen series
- Use with 4" housings with screw-base adapter included
- Dimmable down to 5%

#### Dimensional and Mounting Details

#### Scale



For use in insulated ceiling and non-insulated ceiling rated housing.  
High-efficacy LED with Integral Driver – Dimmable

## Order Information

SAMPLE ORDER NUMBER: **RA4069S1EWH**

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

Models	Lumens	CRI/CCT	Driver	Finish
<b>RA4=</b> 4" LED Adjustable Gimbal	<b>06</b> = 600 lumens (nominal)	<b>9S</b> = 90 CRI minimum, white tuning, selectable CCT 2700K-5000K	<b>1E</b> = 120V 60Hz leading or trailing edge phase cut 1% dimming	<b>WH</b> = Matte white baffle

## Housings

Housings
<b>Halo Ultra-shallow LED Housings</b> <b>H245ICAT=</b> 4" IC, airtight ultra-shallow new construction housing, LED, 120 - 277V <b>H245RICAT=</b> 4" IC, airtight ultra-shallow remodeler housing, LED, 120 - 277V <b>Halo LED Housings</b> <b>H995ICAT=</b> 4" IC, airtight shallow new construction housing, LED, 120 - 277V <b>H995RICAT=</b> 4" IC, airtight shallow remodeler housing, LED, 120 - 277V <b>H450FR2ICATD010=</b> 4" fire safe new construction housing for phase-cut and 0-10V LED retrofit modules, 120-277V <b>Halo Housings</b> <b>H99TAT=</b> 4" non-IC, airtight shallow new construction housing, E26, 120V <b>H99RTAT=</b> 4" non-IC, airtight shallow remodeler housing, E26, 120V <b>H99ICAT=</b> 4" IC, airtight shallow new construction housing, E26, 120V <b>E4TATSB=</b> 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V <b>E4RTATSB=</b> 4" non-IC, airtight shallow remodeler housing, adjustable socket bracket, E26, 120V <b>E4ICATSB=</b> 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V

## Product Specifications

### CCT Select System

- Use the switch to choose between 2700K, 3000K, 3500K, 4000K, and 5000K CCT.

### Module - Trim

- Module construction includes LED array, heat sink, reflector, lens, baffle and trim ring.
- Regressed baffle
- 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.
- Up to 360-degree rotation
- 35-degree tilt
- Halo matte white paint finish

### 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 at 4 SDCM in between endpoints, provide color accuracy and uniformity.
- Color Temperature (CCT) has a selectable range from 2700K to 5000K (factory default 3000K)

### Optical Assembly

- Regressed lens
- Impact-resistant polycarbonate
- Convex form and lamp-like appearance
- Diffuse for even illumination

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5%.
- Inline electrical quick connect and E26 adapter (provided) provides mains connections
- See Dimming Guide for compatible dimmers

### Retention

- Precision formed spring blades secure module with friction fit to compatible housings.
- Friction blade design allows the RA4 to be installed in any position within the housing aperture (360 degrees)

### Compliance

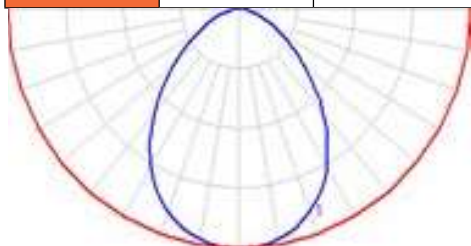
- UL Certified
- Damp location listed
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance. Complies with Title 24 JA8-2016-E.
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

### Warranty

Five year limited warranty, consult website for details.  
[www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

## Photometric Data

RA4069S1EWHR-3000K		
Luminaire lumens		615
Input watts		7.0
LER (LPW)		87.9
Spacing Criteria	0-180	1.14
	90-270	1.14
	Diagonal	1.20
Beam angle (degrees)		86.6
Field angle (degrees)		140.5
Zonal lumen	Lumens	% Lumens
0-30	227	36.9
0-40	353	57.5
0-60	541	87.9
0-90	615	100



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

## Product Specifications

PRODUCT SPECIFICATIONS	
Lumens	615
Watts	7.0
Lumens Per Watt (Efficacy)	87.9
Color Accuracy (CRI)	93
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
2700K	3000K
4500K	6500K

## Energy Data

Energy Data @ 3000K	
Lumens	600 Series
Input Voltage	120V
Input Current	.065 (mA)
Input Power	7.0 (W)
Efficiency	87.9 %
Inrush (A)	.51
THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient -30 - +40°C	
Sound Rating ≤ 20dba	