Project	C	Catalog #	Туре	
Prepared by	1	Notes	Date	



HALO

RA4 High Lumen | Selectable CCT

4" All-Purpose LED retrofit module with SeleCCTable switch 800 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 Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.

Product Features





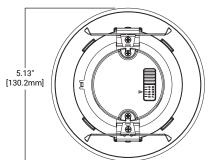


Top Product Features

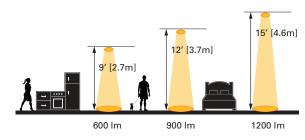
- · Adjustable gimbal offers 35-degree tilt and up to 360-degree rotation
- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT
- · 800 lumen series
- Use with 4" housings with screw-base adapter included
- · Dimmable down to 5%

Dimensional and Mounting Details

3.33" [84.58mm] [130.2mm



Scale



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



Order Information

SAMPLE ORDER NUMBER: RA4089S1EWHR

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

Models	Lumens	CRI/CCT	Driver	Finish	Packaging
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RA4= 4" LED Adjustable Gimbal	08 = 800 lumens (nominal)	9S = 90 CRI minimum, white tuning, selectable CCT 2700K-5000K	1E = 120V 60Hz leading or trailing edge phase cut 5% dimming	WH = Matte white baffle	R = Recyclable 4-color unit carton

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

H995ICAT = 4" IC, airtight shallow new construction housing, LED, 120 - 277V
H995RICAT = 4" IC, airtight shallow remodeler housing, LED, 120 - 277V
H450FR2ICATD010 = 4" fire safe new construction housing for phase-cut and 0-10V LED retrofit modules, 120-277V

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

Product Specifications

CCT Select System

Use the switch to choose between 2700K, 3000K, $3500\mbox{K},\,4000\mbox{K},\,\mbox{and}\,\,5000\mbox{K}$ 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 US and Canada
- · 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 JA8-2019-E.
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

Warranty

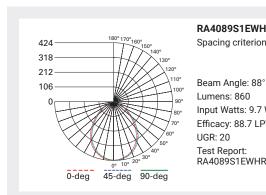
Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Energy Data

Energy Data @ 3000K			
Lumens	800 Series		
Input Voltage	120V		
Input Current	0.079 (A)		
Input Power	9.12 (W)		
Efficiency	87.9 %		
Inrush (A)	1.1		
THD: ≤ 20%			
PF: ≥ 0.90			
T Ambient -30 - +40°C			
Sound Rating ≤ 22dba			

Photometric Data



RA4089S1EWHR - 3000K

Spacing criterion: (0-180) 1.16

(90-270) 1.16

(Diagonal) 1.21

Lumens: 860 Input Watts: 9.7 W Efficacy: 88.7 LPW

UGR: 20 Test Report: RA4089S1EWHR.ies

Zonal Lumen	Lumens	% Lumens	
0-30	316	36.8	
0-40	496	57.7	
0-60	759	88.3	
0-90	858	99.8	





RA4089S1EWHR 2700K / 3000K / 3500K / 4000K / 5000K						
сст	Watts	lumens	LPW	CRI		
2700K	9.6	845	88	93		
3000K	9.7	860	88.7	94		
3500K	9.7	870	89.7	95		
4000K	9.7	875	90.2	95		
5000K	9.7	880	90.7	94		

RA4089S1EWHR - 3000K

