Project	Catalog #	Туре
Prepared by	Notes	Date



### 🖌 Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Photometric Data page 3
- Energy & Performance Data page 3
- Product Warranty

# HALO

## RA4 High Lumen | Selectable CCT

4" All-Purpose LED retrofit module with SeleCCTable switch 800 Lumen Series

### **Typical Applications**

Residential

### **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**



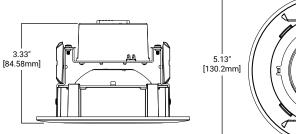


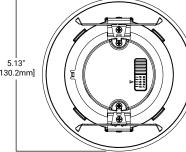
### **Top Product Features**

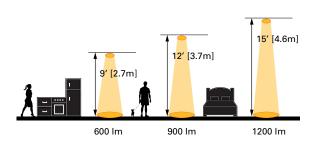
- · Adjustable gimbal offers 35-degree tilt and up to 360-degree rotation
- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT
- · 800 lumen series
- · Use with 4" housings with screw-base adapter included
- Dimmable down to 5%

### **Dimensional and Mounting Details**









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.

RA4= 4" LED Adjustable Gimbal	<b>08</b> = 800 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 5% dimming	WH = Matte white baffle	<b>R =</b> Recyclable 4-color unit carton
Models	Lumens	CRI/CCT	Driver	Finish	Packaging
Models	Lumens	CRI/CCT	Driver	Finish	Packaging

#### Housings

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

Halo Lev Housings H995ICAT = 4' IC, airtight shallow new construction housing, LED, 120 - 277V H955IRCAT = 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

#### Halo Housings

HID THOUSING HIPSTAT = 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, 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 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

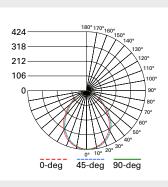


## RA4 High Lumen SeleCCTable LED

### **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

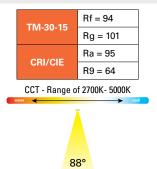
 Spacing criterion:
 (0-180) 1.16

 (90-270) 1.16
 (Diagonal) 1.21

 Beam Angle: 88°
 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

PRODUCT SPECIFICATIONS		
Lumens	860	
Watts	9.7	
Lumens Per Watt (Efficacy)	88.7	
Color Accuracy (CRI)	94	
Light Color (CCT) Correlated Color Temperature (CCT)	3000K	
warm white soft white brig 2700K 3000K 4500K	ht white	
2700K 3000K 4500K	6500K	



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

© 2021 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice.