Project	Catalog #	Туре	
Prepared by	Notes	Date	



# **HALO**

## **RA4 | Selectable CCT**

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

Efficiency St

rtified Products List. h California Title 24 High Efficacy requirements.

damp location

**Typical Applications** 

Residential

### **Product Certification**

IECC

Product Features

IC

to ENERGY STAR® Certifi

### Interactive Menu

- Order Information page 2
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### **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**





1<mark>5'</mark> [4.6m] 1<mark>2'</mark> [3.7m] 1200 lm 900 lm

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



3.33"

[84.58mm]

T20 California Certific Tier 1

### **Order Information**

#### SAMPLE ORDER NUMBER: RA4069S1EWH

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

Models	Lumens	CRI/CCT	Driver	Finish
Models	Lumens	CRI/CCT	Driver	Finish
RA4= 4" LED Adjustable Gimbal	06 = 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	WH = Matte white baffle

#### 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

Hard Clo Trossing (L. 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

#### 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

### **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



### **Photometric Data**

Luminaire lumens   615     input watts   7.0     LER (LPW)   87.9     Spacing   0-180   1.14     Diagonal   1.20     Beam angle (degrees)   86.6     Field angle (degrees)   140.5     0-30   227   36.9     0-40   353   57.5     0-60   541   87.9     0-40   353   57.5     0-60   541   87.9     0-90   615   100     Light Color (ECT)     Constant lumen   ast estic training ast est	RA	4069S1EWHR-30	00K			Pro	oduct Spe	ecificatio	ns	
Input watis     7.0       LER (LPW)     87.9       O-180     1.14       90-270     1.14       Diagonal     1.20       Beam angle (degrees)     86.6       Field angle (degrees)     140.5       onal lumen     & Lumens       0-30     227       36.9										
Beam angle (degrees)     06.6       Field angle (degrees)     086.6       Field angle (degrees)     140.5       0-30     227       0-40     353       0-60     541       0.90     615  <							DD	опист		
Beam angle (degrees)     06.6       Field angle (degrees)     086.6       Field angle (degrees)     140.5       0-30     227       0-40     353       0-60     541       0.90     615  <			87.9				CDECIE		NI C	
Criteria     Diagonal     1.14       Diagonal     1.20       Beam angle (degrees)     86.6       Field angle (degrees)     140.5       onal lumen     Lumens     % Lumens       0-30     227     36.9       0-40     353     57.5       0-60     541     87.9       0-90     615     100       Source (CI)       wave white soft white		0-180	1.14				JELOII	IGAIIU		
Diagonal     1.20       Beam angle (degrees)     86.6       Field angle (degrees)     140.5       onal lumen     Lumens     % Lumens       0-30     227     36.9       0-40     353     57.5       0-60     541     87.9       0-90     615     100       Variant white soft white bright       variant white soft white bright       out white soft white bright       O 90     615     100       Variant white soft white bright       variant white bright <th cols<="" td=""><th></th><td>90-270</td><td>1.14</td><td></td><td></td><td></td><td>umens</td><td></td><td></td></th>	<th></th> <td>90-270</td> <td>1.14</td> <td></td> <td></td> <td></td> <td>umens</td> <td></td> <td></td>		90-270	1.14				umens		
Beam angle (degrees)     86.6       Field angle (degrees)     140.5       onal lumen     Lumens     % Lumens       0-30     227     36.9       0-40     353     57.5       0-60     541     87.9       0-90     615     100       Umens     % Lumens     % Lumens       0-40     353     57.5       0-60     541     87.9       0-90     615     100	Criteria	Diagonal	1.20			1	Natts			
Field angle (degrees)   140.5     unal lumen   Lumens   % Lumens     0-30   227   36.9     0-40   353   57.5     0-60   541   87.9     0-90   615   100     Color Accuracy (CRI)     umm white   soft white     umm white   soft white   bright     Color Accuracy (CRI)     umm white   soft white   bright     Color Accuracy (CRI)     umm white   soft white   bright     Corrected Color Temperature (CCT)     umm white   soft white   bright     Corrected Color Temperature (CCT)     umm white   soft white   bright     Corrected Color Temperature (CCT)     umm white   soft white   bright     Corrected Color Temperature (CCT)     Corrected Color Corrected Color Temperature (CCT) </td <th>Beam angle</th> <td>(degrees)</td> <td>86.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Beam angle	(degrees)	86.6							
O-30     227     36.9       0-40     353     57.5       0-60     541     87.9       0-90     615     100         O-90     615     100     100         O-90     615     100     100         O-90     100     100     100     100         O-90     100     100     100     100     100         Image: Contraction of the operation			140.5				umens Per V.	Vatt (Efficacy)	1	
0-40     353     57.5       0-60     541     87.9       0-90     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     600     541       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1			% Lumens			(	Color Accura	CY (CRI)		
0-40     353     57.5       0-60     541     87.9       0-90     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     615     100       0     600     541       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1     100     100       1							Light Color (C	CT)	300	
0-90     615     100       0-90     615     100       0 dots     100     200K       200K     3000K     4500K       ed in accordance with IES LM63. Field results may vary.     0     0       ergy Data     000 Series     0     0       tt Voltage     120V     0     0       tt Current     0.065 (mA)     0     0       tt Power     7.0 (W)     0     0       sh (A)     .51     0     0     0	0-40	353	57.5			C	Correlated Color Temper	ature (CCT)		
0-90     615     100       0-90     615     100       0 dots     100     200K       200K     3000K     4500K       ed in accordance with IES LM63. Field results may vary.     0     0       ergy Data     000 Series     0     0       tt Voltage     120V     0     0       tt Current     0.065 (mA)     0     0       tt Power     7.0 (W)     0     0       sh (A)     .51     0     0     0	0-60	541	87.9							
270K 300K 450K 270K 300K 450K 270K 300K 450K 270K 300K 450K 1270K 300K 450K 1270K 300K 450K 1270K 300K 450K	0-90	615	100				warm white soft	t white brig	ht whi	
mens     600 Series       ut Voltage     120V       ut Current     .065 (mA)       ut Power     7.0 (W)       iciency     87.9 %       ush (A)     .51			ld results may vary.		on					
mens     600 Series       ut Voltage     120V       ut Current     .065 (mA)       ut Power     7.0 (W)       iciency     87.9 %       ush (A)     .51				C						
ut Current     .065 (mA)       ut Power     7.0 (W)       ciency     87.9 %       ush (A)     .51	imens	600 Se	ries			)				
ut Power     7.0 (W)       iciency     87.9 %       ush (A)     .51	out Voltage	120	v			•				
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ush (A) .51	ut Power	7.0 (\	V)							
	ciency	87.9	%							
D: ≤ 20%	ush (A)	.51								
	ID: ≤ 20%									

### **Product Specifications**

PRODUCT SPECIFICATIONS			
Lumens	615		
Watts	7.0		
Lumens Per Watt (Efficacy)	87.9		
Color Accuracy (CRI)	93		
Light Color (CCT) Correlated Color Temperature (CCT)	3000K		
↓ I			
warm white soft white bright 2700K 3000K 4500K	white 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				

COOPER

Lighting Solutions

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