Project		Catalog #		Type	
Prepared by		Notes		Date	
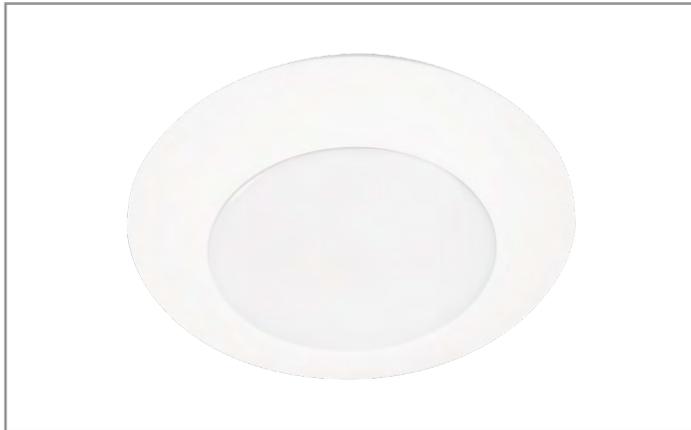
HALO

HLC6

6" LED Surface Luminaire
900 Lumen Series

Typical Applications

Residential

Interactive Menu

Product Certification

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)

UL CERTIFIED

RoHS COMPLIANT

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

air-tite™

Top Product Features

- Below the ceiling installation, no clips or plates needed
- Installs in many 3-1/2" and 4" ceiling junction and pancake boxes
- 3 color temperatures: 3000K, 4000K or 5000K CCT, CRI: 90
- Dimmable down to 10%
- Damp location listed for indoor ceiling or wall mounting

Dimensional and Mounting Details

Ø 7.71"
(195.8mm)

1.05"
(26.7mm)

COOPER
Lighting Solutions
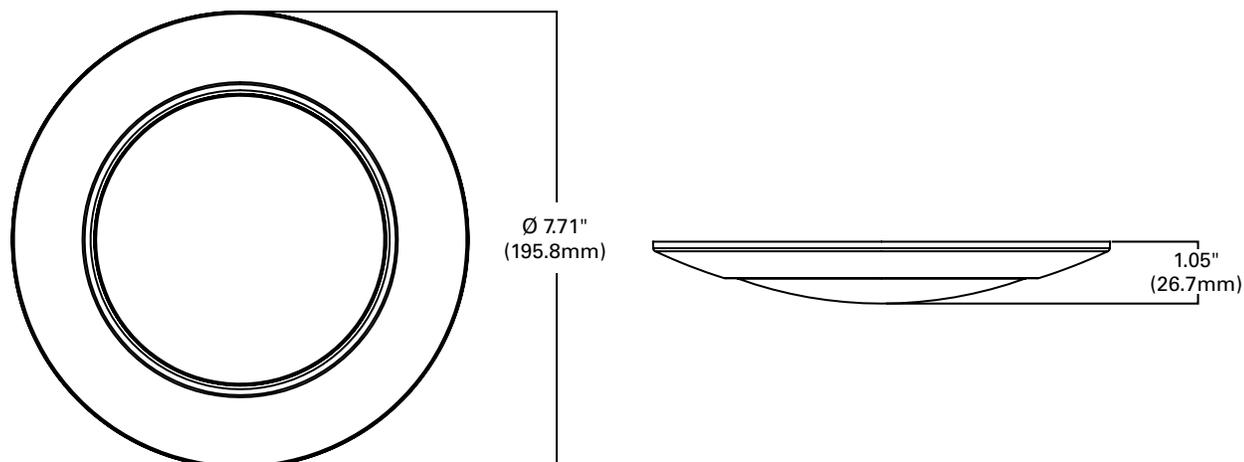
Order Information

SAMPLE ORDER NUMBER: **HLC6099301EWH-6BP**

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
Models	**Lumens**	**CRI / CCT**	**Driver**	**Finish**	**Packaging**
HLC6 = 6-Inch LED surface light	**09** = 900 lumens (nominal)	**930** = 90 CRI minimum, 3000K CCT **940** = 90 CRI minimum, 4000K CCT **950** = 90 CRI minimum, 5000K CCT	**1E** = 120V 60Hz, LE & TE phase cut 10% dimming	**WH** = matte white flange	**-6BP** = Qty 6 bulk pack (not for individual sale) **-12BP** = Qty 12 bulk pack (not for individual sale) [1]
Notes	**Notes**	**Notes**	**Notes**	**Notes**	**Notes** (1) 3000K only

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES

TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- **TP316 -** for non-metallic cable
- **TP317 -** for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*

4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)

3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)

3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)

4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)

4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

Product Specifications

Construction
- Stamped aluminum

Optics
- Precision engineered optic provides uniform luminance from a low profile convex lens
- Removable lens for easy install from below installation

LED
- Backlit LED technology
- Color Temperature options include: 3000K, 4000K or 5000K
- 90 CRI is standard
- L70 at 50,000 hours projected in accordance with TM-21

Driver
- Integral 120V 60Hz constant current driver provides virtually noise free operation.
- Continuous, flicker-free dimming from 100% to 10% with select leading or trailing edge 120V phase cut dimmers. See dimming guide.
- Dimming to 10% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)
- Inline electrical quick connect (provided) provides mains connections

Electrical Junction Box Mounting
- HLC6 may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Install from below design
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
- Compatible with compact (pancake) junction boxes
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building coded NEMA LSD 57-2013

Compliance
- UL Certified for US and Canada
- Damp Location listed
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.
- EMI/RFI emissions per FCC 47CFR Part 15B
- 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
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire Compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List

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

Energy Data

| Lumens	925 @ 3000K
Input Voltage	120V
Input Current	.133 (mA)
Input Power	15.7 (W)
Efficiency	58.8 (LPW)
Inrush (A)	.133 (A)
THD	≤ 29%
PF	≥ 0.90
T Ambient	-30° - +40°C
Sound Rating	≤ 22 dba

Photometric Data

HLC6099301EWH-6BP - 3000K		
Luminaire lumens		925
Input watts		15.7
LER (LPW)		59
Spacing Criteria	0-180	1.28
	90-270	1.28
	Diagonal	1.4
Beam angle (degrees)		114.4
Field angle (degrees)		166
Zonal lumen	Lumens	% Lumens
0-30	242	26.2
0-40	397	42.9
0-60	708	76.6
0-90	920	99.5
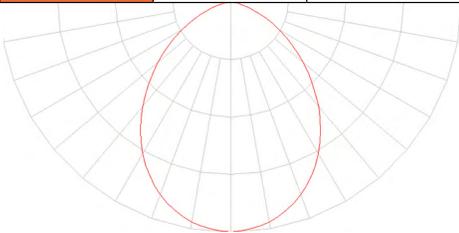
Color Metric Summary

3000K		
TM-30-15	R_f = 87	
	R_g = 95	
CRI/CIE	R_a = 92	
	R_9 = 60	

4000K		
TM-30-15	R_f = 88	
	R_g = 96	
CRI/CIE	R_a = 92	
	R_9 = 66	

5000K		
TM-30-15	R_f = 90	
	R_g = 97	
CRI/CIE	R_a = 92	
	R_9 = 62	

114°

CCT - Range of 3000K- 5000K

warm ← → cool

Catalog Number	CCT	Lumens	Power (W)	LPW
HLC6	3000K	925	15.7	58.8
	4000K	939	15.7	59.8
	5000K	1048	15.7	66.8

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

Product Specifications

PRODUCT SPECIFICATIONS	
Lumens	925
Watts	15.7
Lumens Per Watt (Efficacy)	58.8
Color Accuracy (CRI)	92
Light Color (CCT) Correlated Color Temperature (CCT)	3000K

warm white | soft white | bright white
2700K 3000K 4500K 6500K

HLC6099301EWH-6BP

PRODUCT SPECIFICATIONS	
Lumens	939
Watts	15.7
Lumens Per Watt (Efficacy)	59.8
Color Accuracy (CRI)	92
Light Color (CCT) Correlated Color Temperature (CCT)	4000K

warm white | soft white | bright white
2700K 3000K 4500K 6500K

HLC6099401EWH-6BP

PRODUCT SPECIFICATIONS	
Lumens	1048
Watts	15.7
Lumens Per Watt (Efficacy)	66.8
Color Accuracy (CRI)	92
Light Color (CCT) Correlated Color Temperature (CCT)	5000K

warm white | soft white | bright white
2700K 3000K 4500K 6500K

HLC6099501EWH-6BP