#### DESCRIPTION

The Halo Backlit LED Downlight (BLD) incorporates state of the art lighting technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. BLD6 is designed for installation in many 3-1/2" and 4" round or octagon junction boxes including pancake boxes. It can also retrofit in 5" or 6" aperture IC and Non-IC recessed housings. Suitable for residential or commercial installations.

MOUNTING

· BLD may be used in compatible

Suitable for installation in many

spray foam insulation

electrical junction boxes.

compatible with compact

(pancake) junction boxes

Selectable CCT configuration,

driver consumes 3 cubic inches

of junction box, selectable CCT

configuration is not compatible

with pancake junction boxes

compatibility of fit, wiring and

junction box. This includes all

applicable national and local

electrical and building coded

**RECESSED HOUSING MOUNTING** 

Precision formed torsion spring

the mounting plate to fit 5" or 6"

· Not for use in recessed housings

insulation refer to NEMA LSD

in direct contact with spray foam

•The torsion springs adjust on

proper mounting in the electrical

Installer must ensure

Torsion Spring 5" & 6"

bracket kit included

compatible housings

57-2013

Dedicated CCT SKUs are

electrical junction boxes in direct

contact with insulation including

3-1/2" and 4" octagon and round

#### CONSTRUCTION

 Stamped aluminum housing and frame

### OPTICS

· Precision engineered optic provides uniform luminance from a low profile convex lens

#### I FD

- Backlit LED technology
- Color Temperature options include: standard 3000K dedicated or SeleCCTable configuration including 2700K, 3000K, 3500K, 4000K and 5000K options.
- 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 5% with select leading or trailing edge 120V phase cut dimmers. See dimming guide for details.
- Dimming to 5% 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 guick connect and E26 adapter (provided) provides mains connections.

#### **ELECTRICAL JUNCTION BOX** WARRANTY

• Five year limited warranty, consult website for details. www.eaton.com/lighting/legal

### COMPLIANCE

- cULus certified for use with Halo housings and other's housings, see instruction sheet for conditions of acceptability.
- Wet and Damp Location listed, airtight per ASTM-E283 (protected ceiling only)
- 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, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings.
- · Can be used for International Energy Conservation Coe (IECC) and Washington State Energy Code high efficiency luminaire Compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List





## **BLD6 Series**

90 CRI

6" Backlit LED Downlight

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE<sup>™</sup>)

3000K - dedicated			
Lumens	700		
Wattage	8.2W		
Input current	0.07		
Efficacy	85.4 LPW		
THD	14.3%		
Frequency	60 Hz		
T Ambient	-30 - +40°C		
Voltage	120V		
Sound Rating	Class A		
Power Factor	0.99		

SeleCCTable 2700K – 5000K		
Lumens	812	
Wattage	10.3W	
Input current	0.088	
Efficacy	78.8 LPW	
THD	11.8%	
Frequency	60 Hz	
T Ambient	-30 - +40°C	
Voltage	120V	
Sound Rating	Class A	
Power Factor	0.99	







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



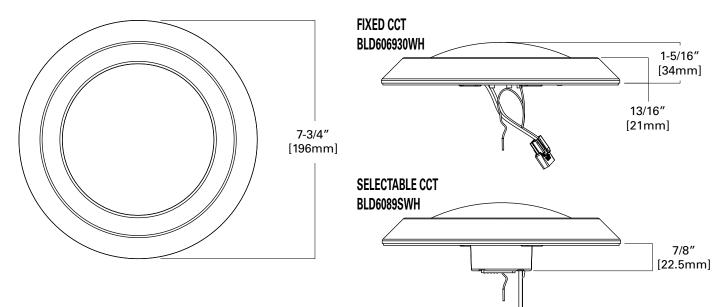




## HALO

## HALO

## DIMENSIONS



### ORDERING INFORMATION

SAMPLE NUMBER: BLD606930WH = 6" Backlit LED Downlight, 90CRI, 3000K					
Models Lumens CRI / CCT Finish Voltage					
<b>BLD6</b> = 6" Backlit LED Downlight	06=600 lumen series	930=90CRI, 3000K	WH= Matte White	Blank= 120V	

### SAMPLE NUMBER: BLD6089SWH = 6" Backlit LED Downlight, 90CRI, SeleCCTable CCT

Models	Lumens	CRI / CCT	Finish	Voltage
BLD6 = 6" Backlit LED Downlight	08=800 lumen series	<b>9S</b> =90 CRI, SeleCCTable 2700K, 3000K, 3500K, 4000K & 5000K	WH= Matte White	Blank= 120V



## HALO

## HOUSING COMPATIBILITY

The BLD6 is UL Certified for use with <u>any</u> 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in3 in addition to those noted below. **Note:** Some other's housings require installation with included friction clips.

## Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)

	Recessed Can Size	Catalog Number
HALO	5"	H550ICAT, H550RICAT, E550ICAT, E550RICAT
LED	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT

### **Halo LED Retrofit Enclosures**

HALO	6"	ML7BXRFK, ML7E26RFK
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### **Compatible Halo Incandescent E26 Screwbase Housings**

8		U
	5"	H5ICAT, H5RICAT, H5ICATNB, H5T, H5RT, H25ICAT, H25ICATNB, E5TAT, E5RTAT, H5TNB, E5TATNB, E5ICAT, E5RICAT, E5ICATNB
HALO	6"	H7ICAT, H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICT, H7UICAT, H27ICAT, H27RICAT, H27T, H27RT, E7ICAT, E7RICAT, E27ICAT, E27RICAT, E7ICATNB, E7TAT, E7RTAT, E7TATNB, E27TAT, E27RAT

### 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)



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

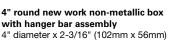


**4" octagon steel box** 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



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







**4" square deep steel box** 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



**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" square standard steel box** 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



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



ing Business Worldwide



Round ceiling pan 4" diameter x 13/16" (102mm x 21mm) Note: only compatible with fixed CCT BLD606930

\*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 bracks in the box.

# **HALO**

## **BLD6** Series

### PHOTOMETRIC DATA

E	3LD606930W	Н	
Luminaire lumens		700	Lumii
Input	watts	8.2	Inj
LER (	LPW)	85.4	L
	0-180	1.26	
Spacing Criteria	90-270	1.26	Spacing Criteria
ontenta	Diagonal	1.38	ontena
Beam angl	e (degrees)	112.3	Beam a
Field angle (degrees)		170.2	Field a
Max. Candela		235.8	Ma
Zonal lumen	Lumens	% Lumens	Zonal lum
0-30	182	26.0%	0-30
0-40	298	42.5%	0-40
0-60	527	75.3%	0-60
0-90	700	100.00%	0-90
			ł

BLD6089SWH				
Luminair	812			
Input	watts	10.3		
LER (	LPW)	78.8		
	0-180	1.24		
Spacing Criteria	90-270	1.24		
ontena	Diagonal	1.36		
Beam angl	e (degrees)	108.5		
Field angle	e (degrees)	170.3		
Max. C	andela	283.5		
Zonal lumen Lumens		% Lumens		
0-30	217	26.7%		
0-40	0-40 352			
0-60	615	75.7%		
0-90	0-90 812			
0-90 812 100.00%				

### COLOR METRIC SUMMARY

	BLD606930WH	BLD6089SWH	
TM-30-15	Rf = 92.1	Rf = 92.5	
	R <sub>g</sub> = 102	R <sub>g</sub> = 102	
CRI/CIE	Ra = 93	Ra = 93	
	R9 = 77	R9 = 76	

CCT - Range of 2700K- 5000K

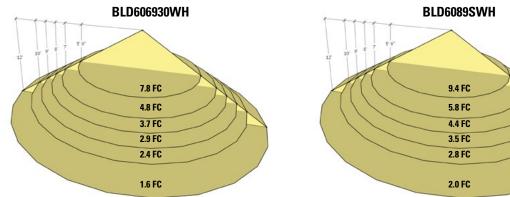


Foot-candle Values at Nadir 0 degree Aiming Angle				
DD (FT)	BLD606930WH (FC)	DIA (FT)	BLD6089SWH (FC)	DIA (FT)
5.5	7.8	6.8	9.4	6.6
7	4.8	8.6	5.8	8.4
8	3.7	9.8	4.4	9.6
9	2.9	11.2	3.5	11
10	2.4	12.4	2.8	12.2
12	1.6	14.8	2.0	14.6

DD = distance down to illuminated work plane

FC = initial foot-candles at nadir

DIA = diameter





Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.