Project	Catalog #	Туре	
Prepared by	Notes	Date	



HALO

BLD4 Series

4" Backlit LED Downlight 90 CRI

Typical Applications

Residential

Interactive Menu

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- Energy & Performance Data page 3
- Product Warranty

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



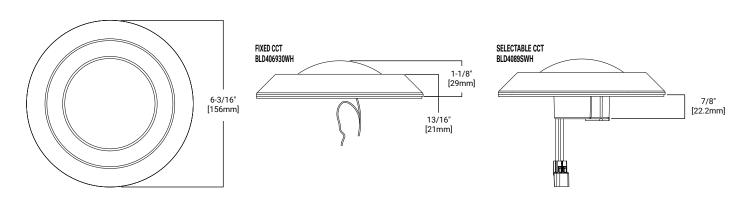




Top Product Features

- · Backlit LED technology, with no housing
- Easy Install: Mounts to most junction boxes (including pancake boxes)
- · Alternate Install: Mount to most recessed housings (hardware included)
- Adjustable white tuning, from 2700K-5000K
- Dimmable down to 5%

Dimensional and Mounting Details





HALO **BLD4** Series

Order Information

SAMPLE NUMBER: BLD406930WH = 4" Backlit LED Downlight, 90CRI, 3000K

BLD4 = 4" Backlit LED Downlight	06 = 600 lumens (nominal)	930 = 90CRI, 3000K CCT	WH = Matte White	Blank = 120V	R = Recycled
Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
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Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
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BLD4 = 4" Backlit LED Downlight	08 = 600 lumens (nominal)	9S = 90 CRI, SeleCCTable 2700K, 3000K, 3500K, 4000K & 5000K	WH = Matte White	Blank = 120V	R = Recycled

^{*}For T20 California product, apply "-CA" to the catalog number (i.e. BLD406930WH-CA)

Housing Compatibility

The BLD4 is UL Certified in for use with any 4 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in³ in addition to those noted below:

Housing Compatibility

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

H995ICAT = 4" IC, airtight shallow new construction housing, LED, 120 - 277V H995RICAT = 4" IC, airtight shallow remodeler housing, LED, 120 - 277V H245ICAT = 4" IC, airtight ultra-shallow new construction housing, LED, 120 - 277V H245RICAT = 4" IC, airtight ultra-shallow remodeler housing, LED, 120 - 277V

Housing Compatibility

H99ICAT = 4" IC, airtight shallow new construction housing, E26, 120V H99TAT = 4" non-IC, airtight shallow new construction housing, E26, 120V H99RTAT= 4" Non-Insulated Ceiling Shallow Remodel Housing, 120V

E4ICATSB = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, 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

Product Specifications Construction

Stamped aluminum housing and frame

Optics

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

LED

- · 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

- 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.
- 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
- Inline electrical quick connect and E26 adapter (provided) provides mains connections

Electrical Junction Box Mounting

- BLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
- Dedicated CCT SKUs are 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
- 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 Recessed Housing Mounting
- Can be installed in industry standard 4-inch recessed housings using friction mounting springs and (E26) medium base adapter provided.
- Not for use in recessed housings in direct contact with spray foam insulation refer to NEMA LSD 57-2013

· 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-
- · 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**



Energy Data

3000K - dedicated			
Lumens	690		
Wattage	8.2W		
Input current	0.07		
Efficacy	84.1 LPW		
THD	15.1%		
Frequency	60 Hz		
T Ambient	-30 - +40°C		
Voltage	120V		
Sound Rating	Class A		
Power Factor	0.99		

SeleCCTable 2700K - 5000K				
Lumens	802			
Wattage	10.3W			
Input current	0.087			
Efficacy	77.9 LPW			
THD	11.9%			
Frequency	60 Hz			
T Ambient	-30 - +40°C			
Voltage	120V			
Sound Rating	Class A			
Power Factor	0.99			

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 box with hanger bar assembly

4" diameter x 2-3/16" (102mm x 56mm)



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)



Round ceiling pan 4" diameter x 13/16" (102mm x 21mm) Note: only compatible with fixed CCT BLD406930

*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.

HALO BLD4 Series

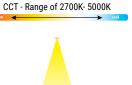
Photometric Data

BLD406930WH				
Luminair	690			
Input	Input watts			
LER (LPW)	84.1		
	0-180	1.26		
Spacing Criteria	90-270	1.26		
	Diagonal	1.38		
Beam angl	e (degrees)	114.4		
Field angle	e (degrees)	178.6		
Max. C	Max. Candela			
Zonal lumen	Lumens	% Lumens		
0-30	172	24.9%		
0-40	282	40.8%		
0-60	502	72.7%		
0-90	690	100.00%		

	BLD4089SWH			
Luminair	802			
Input	watts	10.3		
LER (LPW)	77.9		
	0-180	1.28		
Spacing Criteria	90-270	1.28		
	Diagonal	1.4		
Beam angle	e (degrees)	116.8		
Field angle	(degrees)	180		
Max. C	andela	250		
Zonal lumen	Lumens	% Lumens		
0-30	195	24.3%		
0-40	321	40.0%		
0-60	576	71.8%		
0-90	802	100.00%		

Color Metric Summary

	BLD406930WH	BLD4089SWH	
TM-30-15	Rf = 91	Rf = 91.8	
	Rg = 101.1	Rg = 101.3	
CRI/CIE	Ra = 93	Ra = 93	
	R9 = 75	R9 = 70	



93°

Foot-candle Values at Nadir 0 degree Aiming Angle					
DD (FT)	BLD406930WH (FC)	DIA (FT)	BLD4089SWH (FC)	DIA (FT)	
5.5	7.3	6.8	8.2	6.8	
7	4.5	8.6	5.1	8.8	
8	3.5	10	3.9	10	
9	2.7	11.2	3.1	11.4	
10	2.2	12.4	2.5	12.6	
12	1.5	15	1.7	15.2	

DD = distance down to illuminated work plane FC = initial foot-candles at nadir

DIA = diameter

