Project	Catalog	Туре	
Prepared by	Notes	Date	



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HALO

BLD6 Series

6" Backlit LED Downlight 90 CRI

Typical Applications

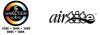
Residential

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

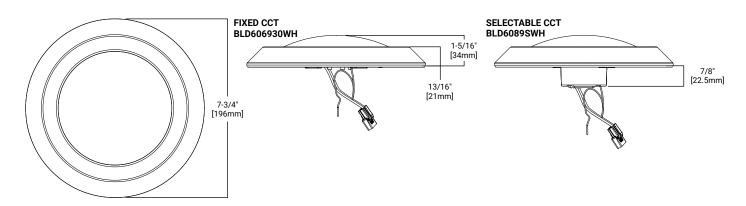




Top Product Features

- · 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





Order Information

SAMPLE NUMBER: **BLD606930WH** = 6" Backlit LED Downlight, 90CRI, 3000K

BLD6 = 6" 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
Models	Lumens	CRI/CCT	Finish	Voltage	Packaging

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

Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
BLD6 = 6" Backlit LED Downlight	08 = 800 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. BLD6089SWH-CA)

Housing Compatibility

The BLD6 is UL Certified in for use with any 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.

Housings	Housings
Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)	Compatible Halo Incandescent E26 Screwbase Housings
Halo LED 5-inch HS50ICAT = 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing HS50RCAT = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing ES50ICAT = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing ES50ICAT = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing Halo LED 5-inch H750ICAT = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing H750T = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing H750T = 6" LED, Non-IC, Air-Tite, New Construction Housing H750T = 6" LED, Non-IC, Air-Tite, New Construction Housing H750T = 6" LED, Non-IC, Air-Tite, New Construction Housing H750T = 6" LED, Non-IC, Air-Tite, New Construction Housing H750T = 6" LED, Non-IC, New Construction Housing H750TCP = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing H750TCP = 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only) H2750ICAT = 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only) H2750ICAT = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing E750ICAT = 6" LED, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only) H2750ICAT = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing	Halo Standard Housings 5-inch HSICAT = 5" Insulated Ceiling, Air-Tite New Construction Housing HSRICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing HSICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing HSICAT = 5" Non-IC, New Construction Housing, No Socket Bracket HST = 5" Non-IC, Remodel Housing HSTNB = 5" Non-IC, Remodel Housing, No Socket Bracket HSICAT = 5" Shallow, Insulated Ceiling, Air-Tite New Construction HSICAT = 5" Shallow, Insulated Ceiling, Air-Tite Remodel ESICAT = 5" Insulated Ceiling, Air-Tite Remodel ESICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing ESICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing ESICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing ESICAT = 5" Insulated Ceiling, Air-Tite New Construction Housing ESICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing ESICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing ESICAT = 5" Non-IC, New Construction Housing ESITAT = 5" Non-IC, New Construction Housing ESTATIB = 5" Non-IC, New Construction Housing ESTATIB = 5" Non-IC, New Construction Housing ESITAT = 5" Non-IC, New Construction Housing ESTATIB = 5" Non-IC, New Construction Housing ESTATIB = 5" Non-IC, New Construction Housing ESITATIB = 5" Insulated Ceiling, Air-Ti
Housings Halo LED Retrofit Enclosures Halo LED retrofit ML7E26RFK = 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface ML7BXFK = 6" Retrofit Enclosure, Non-IC, BX Whip	H7RICAT = 6" Insulated Ceiling, Air-Tite Remodel Housing H7ICT = 6" Insulated Ceiling, Rew Construction Housing H7ICT = 6" Insulated Ceiling, Remodel Housing H7ICATNB = 6" Insulated Ceiling, Remodel Housing H7ICATNB = 6" Insulated Ceiling, New Construction Housing, No Socket Bracket H7ICTNB = 6" Non-IC, Remodel Housing H7TT = 6" Non-IC, Remodel Housing H7TNB = 6" Non-IC, Checago Plenum, New Construction/Remodel Housing H7TNB = 6" Non-IC, Chicago Plenum, New Construction Housing H7TCAT = 6" Insulated Ceiling, Jin'Tite New Construction Housing H7ICAT = 6" Insulated Ceiling, Jin'Tite New Construction Housing E7ICAT = 6" Non-IC, New Construction Housing E7ICAT = 6" Shallow, Insulated Ceiling, Air-Tite New Construction E27ICAT = 6" Shallow, Insulated Ceiling, Air-Tite New Construction E27ICAT = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing E27ICAT = 6" Shallow, Insulated Ceiling, Air-Tite New Construction E27ICAT = 6" Shallow, Non-IC, New Construction Housing E27ICAT = 6" Shallow, Non-IC, New Construction Housing E27IAT = 6" Shallow, Non-IC, New Construction Housing E27IAT = 6" Shallow, Non-IC, New Construction Housing



HALO

BLD6 Series

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

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

Energy Data

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	

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

- Torsion Spring 5" & 6"
- Precision formed torsion spring bracket kit included
- The torsion springs adjust on the mounting plate to fit 5" or 6" compatible housings
- Not for use in recessed housings in direct contact with spray foam insulation refer to NEMA LSD 57-2013

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



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" 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)



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) 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 bracket in the box.



HALO

BLD6 Series

Photometric Data

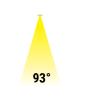
BLD606930WH						
Luminair	700					
Input	8.2					
LER (LER (LPW)					
	0-180	1.26				
Spacing Criteria	90-270	1.26				
	Diagonal	1.38				
Beam angl	Beam angle (degrees)					
Field angle	170.2					
Max. C	andela	235.8				
Zonal lumen	Lumens	% Lumens				
0-30	182	26.0%				
0-40	298	42.5%				
0-60	527	75.3%				
0-90	700	100.00%				

BLD6089SWH						
Luminair	812					
Input	Input watts					
LER (LER (LPW)					
	0-180	1.24				
Spacing Criteria	90-270	1.24				
	Diagonal	1.36				
Beam angl	e (degrees)	108.5				
Field angle	Field angle (degrees)					
Max. C	andela	283.5				
Zonal lumen	Lumens	% Lumens				
0-30	217	26.7%				
0-40	352	43.4%				
0-60	615	75.7%				
0-90	812	100.00%				

Color Metric Summary

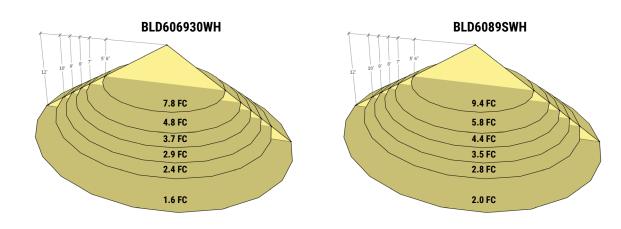
	BLD606930WH	BLD6089SWH	
TM-30-15	Rf = 92.1	Rf = 92.5	
1101-30-15	Rg = 102	Rg = 102	
	Ra = 93	Ra = 93	
CRI/CIE	R9 = 77	R9 = 76	

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





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

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Specifications and dimensions subject to change without notice.