

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

BLD6 Series

6" Backlit LED Downlight
90 CRI

Typical Applications

Residential

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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 JAB.

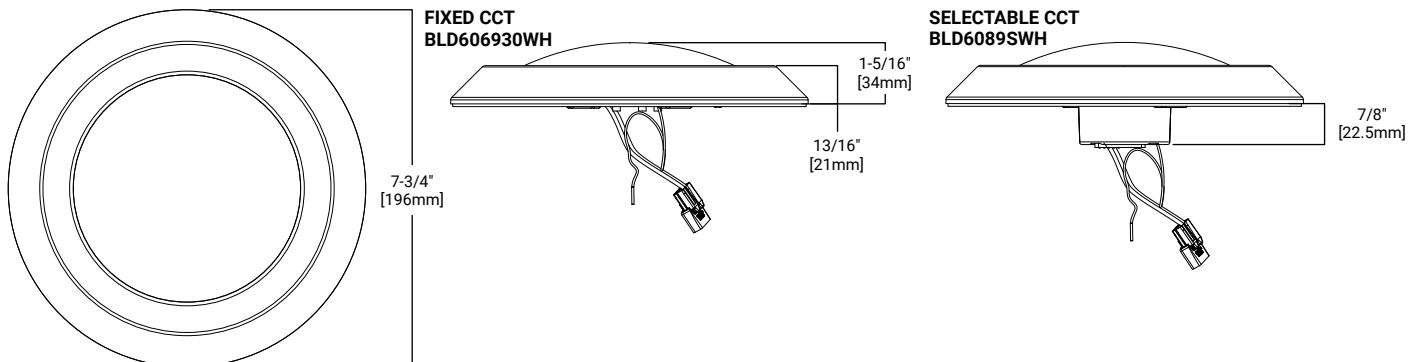
Product Features



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

Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
BLD6 = 6" Backlit LED Downlight	06 = 600 lumens (nominal)	930 = 90CRI, 3000K CCT	WH = Matte White	Blank = 120V	R = Recycled

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

Models	Lumens	CRI/CCT	Finish	Voltage	Packaging
BLD6 = 6" 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. 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 H550ICAT = 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing H550RICAT = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing E550ICAT = 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing E550RICAT = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing Halo LED 6-inch H750ICAT = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing H750RICAT = 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 H750RINTD010 = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing H750TCP = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing H2750ICAT = 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Construction (use with 691X, 694X, 696X trims only) H2750RICAT = 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only) E750ICAT = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing E750RICAT = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing	Halo Standard Housings 5-inch H51CAT = 5" Insulated Ceiling, Air-Tite New Construction Housing H51RICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing H51CATNB = 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket H5T = 5" Non-IC, New Construction Housing H5RT = 5" Non-IC, Remodel Housing H5TNB = 5" Non-IC, New Construction Housing, No Socket Bracket H251CAT = 5" Shallow, Insulated Ceiling, Air-Tite New Construction H251RICAT = 5" Shallow, Insulated Ceiling, Air-Tite Remodel E51CAT = 5" Insulated Ceiling, Air-Tite New Construction Housing E51RICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing E51CATNB = 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket E5TAT = 5" Non-IC, New Construction Housing E5RTAT = 5" Non-IC, Remodel Housing E5TATNB = 5" Non-IC, New Construction Housing, No Socket Bracket Halo Standard Housings 6-inch H71CAT = 6" Insulated Ceiling, Air-Tite New Construction Housing H71RICAT = 6" Insulated Ceiling, Air-Tite Remodel Housing H71CT = 6" Insulated Ceiling, New Construction Housing H71RICT = 6" Insulated Ceiling, Remodel Housing H71CATNB = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket H71CTNB = 6" Insulated Ceiling, New Construction Housing, No Socket Bracket H7T = 6" Non-IC, New Construction Housing H7RT = 6" Non-IC, Remodel Housing H7TNB = 6" Non-IC, New Construction Housing, No Socket Bracket H7TCP = 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing H7UICAT = 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing E71CAT = 6" Insulated Ceiling, Air-Tite New Construction Housing E71RICAT = 6" Insulated Ceiling, Air-Tite Remodel Housing E71CATNB = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket E7TAT = 6" Non-IC, New Construction Housing E7RTAT = 6" Non-IC, Remodel Housing E7TATNB = 6" Non-IC, New Construction Housing, No Socket Bracket E271CAT = 6" Shallow, Insulated Ceiling, Air-Tite New Construction E271RICAT = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing E27TAT = 6" Shallow, Non-IC, New Construction Housing E27RTAT = 6" Shallow, Non-IC, Remodel Housing
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	

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

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

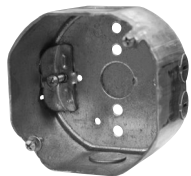
- cULus certified for use with Halo housings and other's housings, see instruction sheet for conditions of acceptability.
- Wet and Damp Location listed, airtight per ASTM-E283 (protected ceiling only)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.
- 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 Code (IECC) and Washington State Energy Code high efficiency luminaire Compliance
- ENERGY STAR® Certified luminaire – consult ENERGY STAR® Certified Product List

Energy Data

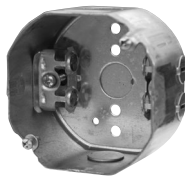
3000K - dedicated	
Lumens	700
Wattage	8.2W
Input current	0.07
Efficacy	85.4 LPW
THD	14.3%
Frequency	60 Hz
T Ambient	-30 - +40°C
Voltage	120V
Sound Rating	Class A
Power Factor	0.99

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

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



4" square standard 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)

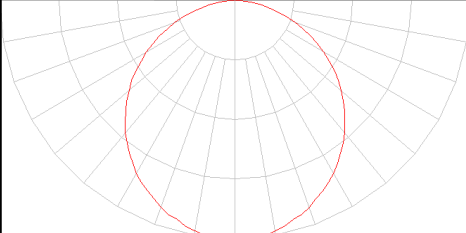


Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)
Note: only compatible with fixed CCT BLD606930

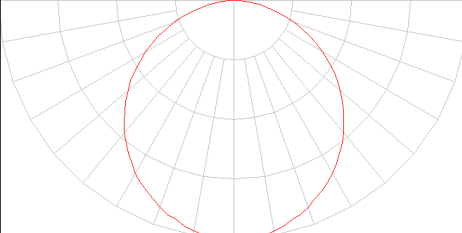
*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation 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.

Photometric Data

BLD606930WH		
Luminaire lumens		700
Input watts		8.2
LER (LPW)		85.4
Spacing Criteria	0-180	1.26
	90-270	1.26
	Diagonal	1.38
Beam angle (degrees)		112.3
Field angle (degrees)		170.2
Max. Candela		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		
Luminaire lumens		812
Input watts		10.3
LER (LPW)		78.8
Spacing Criteria	0-180	1.24
	90-270	1.24
	Diagonal	1.36
Beam angle (degrees)		108.5
Field angle (degrees)		170.3
Max. Candela		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
	Rg = 102	Rg = 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

