

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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

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 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 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
- Note 1:** For Selectable CCT configuration, Driver consumes 3 cubic inches of junction box.
- Note 2:** Fire-rating is per the rating of the ceiling and applicable junction box, not the BLD.

- Note 3:** 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

- Note 4:** Not for use in recessed housings in direct contact with spray foam insulation refer to NEMA LSD 57-2013
- 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

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™)

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



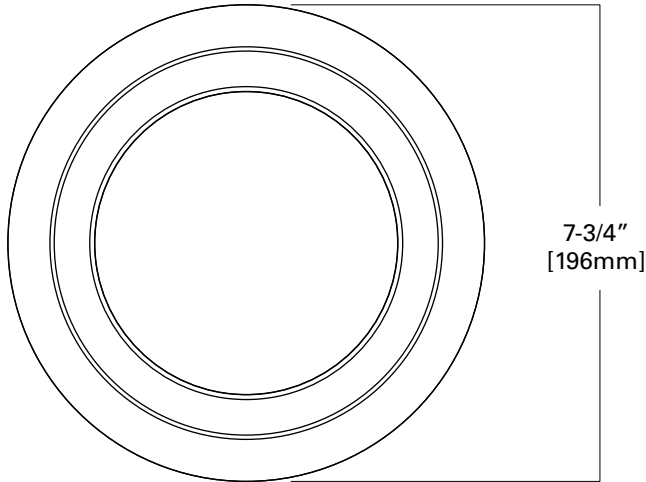
2700K • 3000K • 3500K
4000K • 5000K



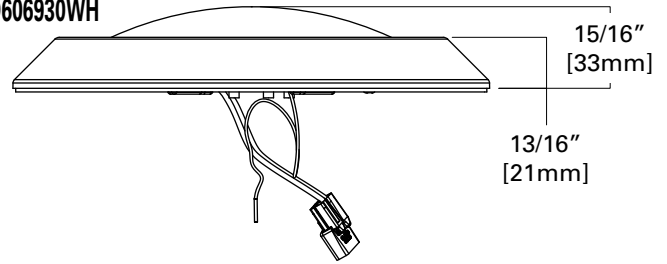
Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JAB.



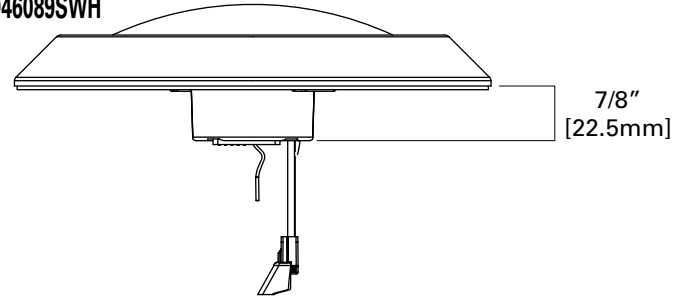
DIMENSIONS



FIXED CCT
BLD606930WH



SELECTABLE CCT
BLD46089SWH



ORDERING INFORMATION

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

Models	Lumens	CRI / CCT	Finish	Voltage
BLD6 = 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	9S =90 CRI, SeleCCTable 2700K, 3000K, 3500K, 4000K & 5000K	WH = Matte White	Blank = 120V

HOUSING COMPATIBILITY

The BLD6 is UL Certified 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.

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

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

Halo LED Retrofit Enclosures

HALO	6"	ML7BXRFK, ML7E26RFK
------	----	---------------------

Compatible Halo Incandescent E26 Screwbase Housings

HALO	5"	H51CAT, H51RICAT, H51CATNB, H51T, H51RT, H251CAT, H251CATNB, E51TAT, E51RTAT, H51TNB, E51TATNB, E51CAT, E51RICAT, E51CATNB
	6"	H71CAT, H71RICAT, H71CT, H71RICT, H71CATNB, H71CTNB, H7T, H7RT, H7TNB, H7TCP, H7UICAT, H7UICATNB, H271CAT, H271RICAT, H27T, H27RT, E71CAT, E71RICAT, E271CAT, E271RICAT, E71CATNB, E71TAT, E71RTAT, E71TATNB, E271TAT, E271RTAT

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)
Requires SLD6RAD adapter



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

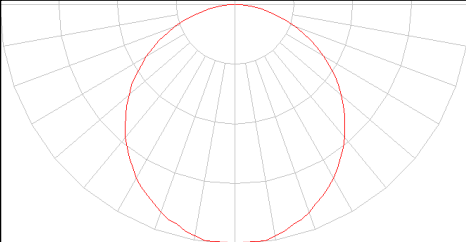


Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)
Note: only compatible with fixed CCT BLD606930

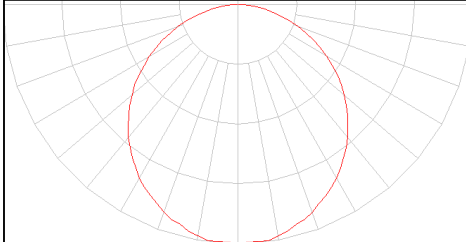
*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation 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	BLD606930WH
TM-30-15	R _f = 92.1	R _f = 92.5
	R _g = 102	R _g = 102
CRI/CIE	R _a = 93	R _a = 93
	R ₉ = 77	R ₉ = 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

