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|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



HALO

BLD6 Series

6" Backlit LED Downlight
90 CRI

Typical Applications

Residential

Interactive Menu

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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 JA8.

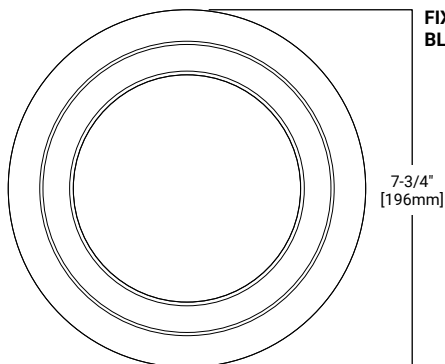
Product Features



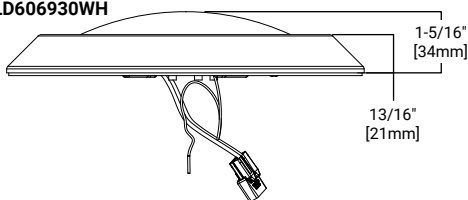
Top Product Features

- 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%

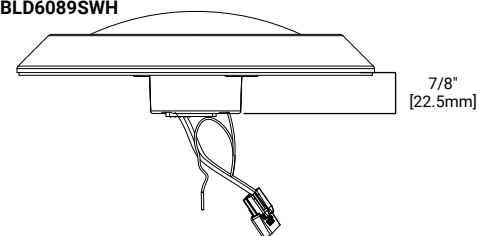
Dimensional and Mounting Details



FIXED CCT
BLD606930WH



SELECTABLE CCT
BLD6089SWH



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 |
|--|---|
| <p>Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)</p> <p>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</p> <p>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 H750TCP = 6" LED, Non-IC, Air-Tite, New Construction Housing H750RINTD010 = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing H750TDP = 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</p> <p>Halo LED Retrofit Enclosures ML7E26RFK = 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface ML7BXFK = 6" Retrofit Enclosure, Non-IC, BX Whip</p> | <p>Compatible Halo Incandescent E26 Screwbase Housings</p> <p>Halo Standard Housings 5-inch H5ICAT = 5" Insulated Ceiling, Air-Tite New Construction Housing H5RICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing H5ICATNB = 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 H25ICAT = 5" Shallow, Insulated Ceiling, Air-Tite New Construction H25RICAT = 5" Shallow, Insulated Ceiling, Air-Tite Remodel E5ICAT = 5" Insulated Ceiling, Air-Tite New Construction Housing E5RICAT = 5" Insulated Ceiling, Air-Tite Remodel Housing E5ICATNB = 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</p> <p>Halo Standard Housings 6-inch H7ICAT = 6" Insulated Ceiling, Air-Tite New Construction Housing H7RICAT = 6" Insulated Ceiling, Air-Tite Remodel Housing H7ICT = 6" Insulated Ceiling, New Construction Housing H7RICT = 6" Insulated Ceiling, Remodel Housing H7ICATNB = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket H7ICTNB = 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 E7ICAT = 6" Insulated Ceiling, Air-Tite New Construction Housing E7RICAT = 6" Insulated Ceiling, Air-Tite Remodel Housing E7ICATNB = 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 E27ICAT = 6" Shallow, Insulated Ceiling, Air-Tite New Construction E27RICAT = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing E27TAT = 6" Shallow, Non-IC, New Construction Housing E27RTAT = 6" Shallow, Non-IC, Remodel Housing</p> |

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

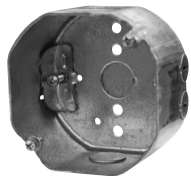
- cULus certified for use with Halo housings and other's housings, see instruction sheet for conditions of acceptability.
- Wet and Damp Location listed, airtight per ASTM-E283 (protected ceiling only)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.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

Energy Data

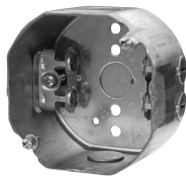
| 3000K - dedicated | |
|-------------------|-------------|
| Lumens | 700 |
| Wattage | 8.2W |
| Input current | 0.07 |
| Efficacy | 85.4 LPW |
| THD | 14.3% |
| Frequency | 60 Hz |
| T Ambient | -30 - +40°C |
| Voltage | 120V |
| Sound Rating | Class A |
| Power Factor | 0.99 |

| 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)



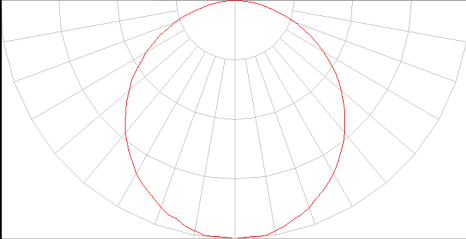
Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)

Note: only compatible with fixed CCT BLD606930

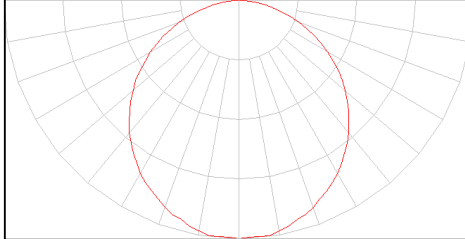
*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation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

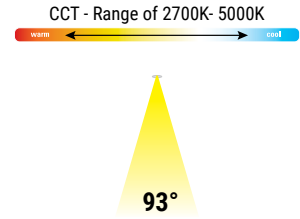


| BLD6089SWH | | |
|-----------------------|----------|----------|
| Luminaire lumens | 812 | |
| Input watts | 10.3 | |
| LER (LPW) | 78.8 | |
| Spacing Criteria | 0-180 | 1.24 |
| | 90-270 | 1.24 |
| | Diagonal | 1.36 |
| Beam angle (degrees) | 108.5 | |
| Field angle (degrees) | 170.3 | |
| Max. Candela | 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 |



| 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

