

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

JBD Slim Surface Mount LED Downlight

A slim 4" surface mount LED downlight that mounts directly to most standard 4" junction boxes and offers interchangeable designer trims.

Typical Applications

Residential

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- 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 JAB.

Product Features

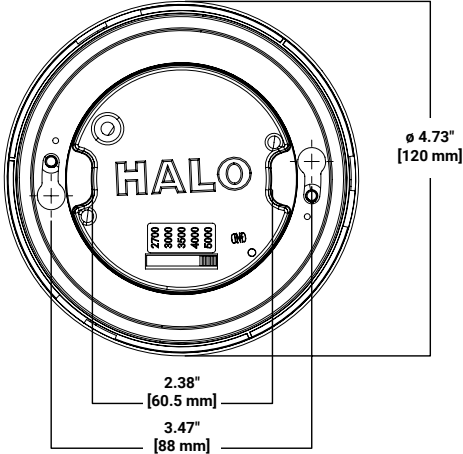
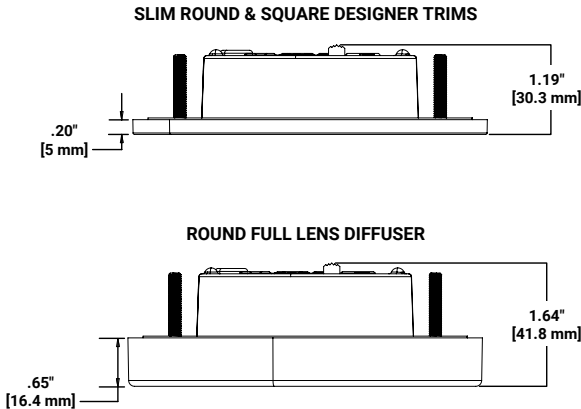


Top Product Features

- Slim 4" design mounts below the ceiling to most standard 4" junction boxes, no clips or plates needed
- Interchangeable designer trims available in round, square, and Full Lens Diffuser
- 5-position Field-SeleCCTable:** 2700K, 3000K, 3500K, 4000K, 5000K; 90+ CRI
- Brightness (Lumens):** 700 lms (nominal)
- Dimming:** Dims to 5% (Phase Cut LE/TE) 120V input
- Life:** 50,000 hrs of maintenance free operation

Dimensional and Mounting Details

additional product diagrams



Order Information

Catalog Number	Description	Lumens (nominal)	CCT	Driver	Included Designer Trim	Compliance
JBD4079FS1EWH	4" Slim Surface LED Downlight	700 lumens	5-color field-selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K; 90+ CRI	5% phase cut LE/TE dimming, 120V 60Hz	Round, Matte White Trim (Paintable)	(non-California version)
JBD4079FS1EWH-CA	4" Slim Surface LED Downlight	700 lumens	5-color field-selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K; 90+ CRI	5% phase cut LE/TE dimming, 120V 60Hz	Round, Matte White Trim (Paintable)	California SKU*

* California version does not include E26 adapter and hardware for alternate installation into recessed housings.

Accessories

Round Flat Designer Trims

JBD4TRMMW = JBD Round Trim, Paintable Matte White
JBD4TRMSN = JBD Round Trim, Satin Nickel
JBD4TRMTBZ = JBD Round Trim, Tuscan Bronze
JBD4TRMMB = JBD Round Trim, Matte Black

Round Baffle Designer Trims

JBD4TRMMWB = JBD Round Baffle Trim, Paintable Matte White
JBD4TRMSNB = JBD Round Baffle Trim, Satin Nickel
JBD4TRMTBZB = JBD Round Baffle Trim, Tuscan Bronze
JBD4TRMMBB = JBD Round Baffle Trim, Matte Black

Round Full Lens Diffuser

JBD4DIFF = JBD Round Trim, Full Lens Diffuser

Square Flat Designer Trims

JBD4STRMMW = JBD Square Trim, Paintable Matte White
JBD4STRMSN = JBD Square Trim, Satin Nickel
JBD4STRMTBZ = JBD Square Trim, Tuscan Bronze
JBD4STRMMB = JBD Square Trim, Matte Black

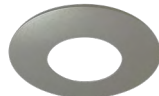
Square Baffle Designer Trims

JBD4STRMMWB = JBD Square Baffle Trim, Paintable Matte White
JBD4STRMSNB = JBD Square Baffle Trim, Satin Nickel
JBD4STRMTBZB = JBD Square Baffle Trim, Tuscan Bronze
JBD4STRMMBB = JBD Square Baffle Trim, Matte Black

Flat Designer Trims



JBD4TRMMW
Paintable
Matte White



JBD4TRMSN
Satin Nickel



JBD4TRMTBZ
Tuscan Bronze



JBD4TRMMB
Matte Black



JBD4STRMMW
Paintable
Matte White



JBD4STRMSN
Satin Nickel



JBD4STRMTBZ
Tuscan Bronze



JBD4STRMMB
Matte Black

Baffle Designer Trims



JBD4TRMMWB
Paintable
Matte White, Baffle



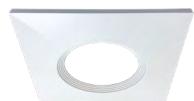
JBD4TRMSNB
Satin Nickel, Baffle



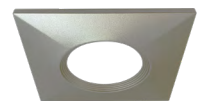
JBD4TRMTBZB
Tuscan Bronze, Baffle



JBD4TRMMBB
Matte Black, Baffle



JBD4STRMMWB
Paintable
Matte White, Baffle



JBD4STRMSNB
Satin Nickel, Baffle



JBD4STRMTBZB
Tuscan Bronze, Baffle



JBD4STRMMBB
Matte Black, Baffle

Full Lens Diffuser



JBD4DIFF
Full Lens Diffuser

Alternate Recessed Housing Installation

**JBD4079FS1EWH**

(non-California version)

- Product includes striped wires on back of fixture.
- Package includes
 - Wire nuts
 - Orange LED housing connector
 - E26 adapter

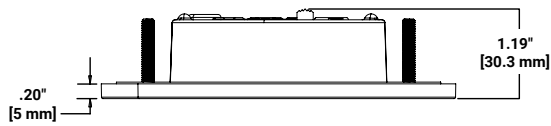
Compatible with for use in 4" Halo housings.

E4ICATSB, E4TATSB, E4RTATSB

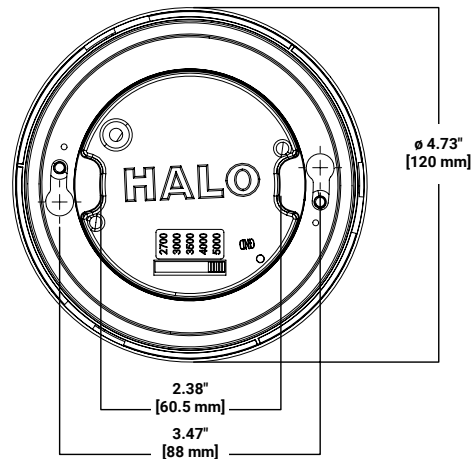
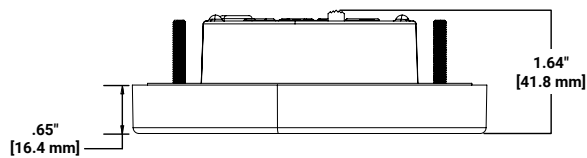
JBD4079FS1EWH-CA is not compatible for installation into recessed housings.

Dimensional and Mounting Details

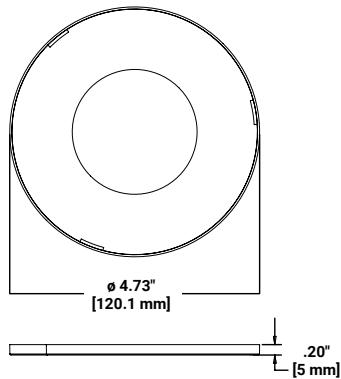
SLIM ROUND & SQUARE DESIGNER TRIMS



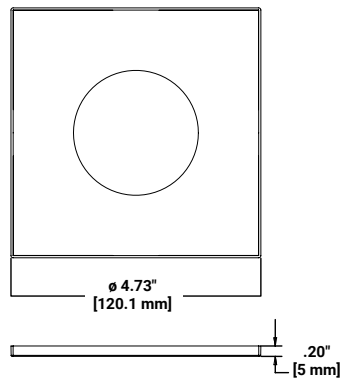
ROUND FULL LENS DIFFUSER



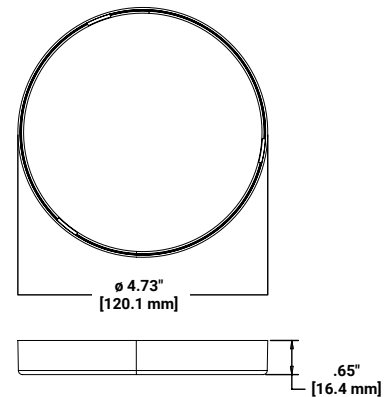
FLAT & BAFFLE ROUND DESIGNER TRIMS



FLAT & BAFFLE SQUARE DESIGNER TRIMS



ROUND FULL LENS DIFFUSER



Product Specifications

Construction

- Slim, die cast aluminum fixture and interchangeable designer trims
- High impact diffuse polystyrene lens provides shielding to the light guide with no pixilation

Gasket

- Closed cell gasket achieves restrictive airflow and wet location requirements without additional caulking

Optics

- Precision acrylic light guide organizes source flux into wide distribution with 1.2 – 1.4 spacing criteria useful for general area illumination

LED

- Mid power led array provide a uniform source with high efficiency and long life
- 5-position field-selectable color temperatures include: 2700K, 3000K, 3500K, 4000K, and 5000K
- 90+ CRI
- L70 at 50,000 hours projected in accordance with TM 21

Designer Trims (Sold Separately)

- Interchangeable Designer Trims are available in both round and square
- Twist locking mechanism attaches trims directly to the fixture
- Slim Designer Trims are available in:
 - Paintable Matte White
 - Satin Nickel
 - Tuscan Bronze
 - Matte Black
- The Full Lens Diffuser expands the JBD's light source into a fully illuminated diffuse lens that extends 1/2" down from the ceiling

Driver

- Integral 120V 50/60Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select leading (LE) or trailing edge (TE) 120V phase cut dimmers.
- 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.

Mounting

- Designed for installation into both junction boxes and recessed housings.

Electrical Junction Box Mounting

- Install from below the ceiling design
- Suitable for installation in many 4" octagon and round electrical 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 NEMA LSD 57 2013)

Recessed Housing Mounting

- May be installed in IC recessed housings in direct contact with insulation Note: Not for use in recessed housing in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013
- E26 medium base socket adapter and 2 extension springs are included for installation in 4" nominal recessed housings

Compliance

- UL Certified for US and Canada
- Wet Location listed for showers and covered outdoor ceilings
- 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
- 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

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/warranty

Compatible Junction Boxes¹



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 surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)



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)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



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



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)

1. 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. Cooper Lighting Solutions 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.

Compatible Housings

HALO - 4" Housings²

Standard Housing	E4ICATSB, E4TATSB, E4RTATSB
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2. The JBD4 is UL Certified for use with any 4" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in³ in addition to those noted above.

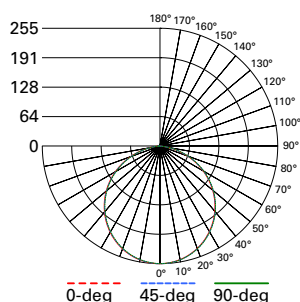
Energy Data

JBD4079FS1EWH - 3000K

Lumens	733lm
Input Voltage (VAC)	120V
Input Current (A)	0.082A
Input Power	9.7W
LPW	75.54lm/W
Inrush Current (A)	2.4
Inrush Duration (ms)	7.2uS
THD (%)	16.8%
PF	0.982
T Ambient	25°C
Sound Rating	18.36 dBA

Catalog Number	CCT	Watts	lumens	LPW	CRI
JBD4079FS1EWH	2700K	9.8	710	72.4	93
	3000K	9.9	715	72.2	93
	3500K	9.9	725	73.2	93
	4000K	9.9	720	72.7	93
	5000K	9.8	720	73.5	93

Photometric Data

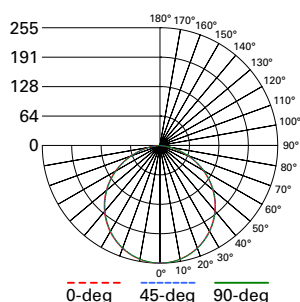


JBD4079FS1EWH-10W-3000K

Spacing criterion:
 (0-180) 1.25 | (90-270) 1.25 |
 (Diagonal) 1.37
 Beam Angle: 112°
 Field Angle: 160°
 Lumens: 713
 Input Watts: 10 W
 Efficacy: 71.3 LPW
 UGR: 20.6
 Test Report: P701313

Zonal Lumen	Lumens	% Lumens
0-30	197	27.7
0-40	323	45.3
0-60	570	80
0-90	712	99.9

TM-30-15	Rf = 91
	Rg = 104
CRI/CIE	Ra = 95.6
	R9 = 85.4



JBD4079FS1EWH-CA-10W-3000K

Spacing criterion:
 (0-180) 1.25 | (90-270) 1.25 |
 (Diagonal) 1.37
 Beam Angle: 112°
 Field Angle: 160°
 Lumens: 713
 Input Watts: 10 W
 Efficacy: 71.3 LPW
 UGR: 20.6
 Test Report: P701314

Zonal Lumen	Lumens	% Lumens
0-30	197	27.7
0-40	323	45.3
0-60	570	80
0-90	712	99.9

TM-30-15	Rf = 91
	Rg = 104
CRI/CIE	Ra = 95.6
	R9 = 85.4

