

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

HLBT 4" Slim LED Trim

The HLBT Slim LED Trims are designed to install into new construction or remodel recessed housings. They match the look and feel of our best-selling canless fixtures, the HLB, and allow installers to offer consistent lighting across multiple installation methods. HLBT fixtures are 5-color field-seleCCTable and offer flicker-free 5% dimming making for easy lighting customization.

Typical Applications

Residential • Hospitality • Retail • Single Family • Multi Family

Interactive Menu

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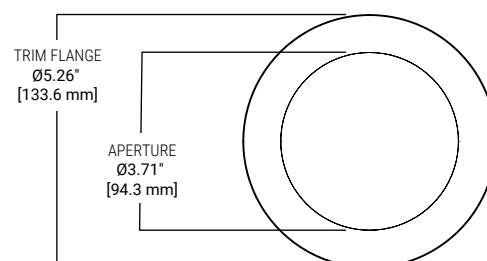
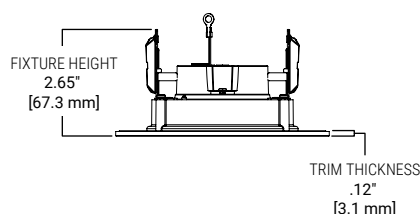
Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.¹
Certified to California Appliance Efficiency Database under JAB.¹



Top Product Features

- Round 4" slim LED trim - installs in most 4" new construction or remodel recessed housings
- **Lens & Trim:** Slim polymer trim with smooth lens
- **Color Temperature (CCT):** 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K); 90+ CRI
- **Brightness (@3000K):** 705 lm
- **Dimming:** Dims to 5% (phase cut LE/TE); 120V input
- Includes preinstalled universal friction blade installation clips, orange LED Quick Connect, and E26 medium socket adapter
- AIR-TITE, wet location-listed, and ENERGY STAR®
- 50,000 hrs of maintenance-free operation
- 5-year warranty

Dimensional and Mounting Details



Order Information

Catalog Number	Description	Lumens (nominal)	CRI/CCT	Driver/Dimming	Finish	Packaging
HLBT407FS5	4" HLBT Slim LED Trim	705 lumens	90+ CRI, field selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K	120V 60Hz, LE & TE phase cut 100-5% dimming	Matte White	Plastic-free Recyclable

Optional Accessories – Decorative Overlays (order separately)

Catalog Number	Description	Finish
HLBT4DOMW	4" HLBT Decorative Overlay	Paintable Matte White
HLBT4DOMB	4" HLBT Decorative Overlay	Matte Black
HLBT4DOSN	4" HLBT Decorative Overlay	Satin Nickel
HLBT4DOTBZ	4" HLBT Decorative Overlay	Tuscan Bronze
HE26LED	Replacement medium E26 screw base adapter (1 is already included with unit)	

Decorative Overlays

HLBT4DOMW
Paintable Matte WhiteHLBT4DOMB
Matte BlackHLBT4DOSN
Satin NickelHLBT4DOTBZ
Tuscan Bronze

Compatible Housings

HALO - 4" Housings²

HALO LED	H45ICAT, H45RICAT
Standard Housing	H99ICAT, H99RTAT, H99TAT, H995ICAT, H995RICAT, H99T, H99RT, H99ICT, E4ICATSB, E4TATSB, E4RTATSB
Shallow Housing	H245ICAT, H245RICAT
Fire Rated Housing	H450FR2ICAT, H450FR2ICATD010
Junction Box Housing	JB4FR2

² The fixture is UL Certified for use with any 4" diameter recessed luminaire constructed of steel or aluminum with an internal volume that exceeds 62.3 in³ addition to those noted below and does not exceed the input rating of the luminaire.

Product Specifications

Module

- The LED module consists of an LED array, optical assembly, driver, and self-flanged trim
- Achieves L70 at 50,000 hrs in IC (insulation contact) and non-IC applications

Selectable System

- Use the CCT select switch to choose between 2700K, 3000K, 3500K, 4000K, and 5000K CCT
- Factory default color temperature (CCT) is set to bright white (3000K)

LED Array

- Mid-power LED array provides a uniform light source with high efficiency and no pixilation
- 90+ CRI minimum, R9 greater than 50
- Color accuracy at 4SCDM at the endpoints and 6 SCDM in the middle provides color consistency and uniformity

Driver

- Integral 120V 60Hz constant current driver provides noise-free, high-efficiency operation
- Dimmable: Continuous, flicker-free dimming from 100% to 5% with compatible leading or trailing edge (LE/TE) 120V phase cut dimmers; (See Dimming Guide for compatible dimmers.)
 - Tip: For optimal dimming performance, consider dimmers with low-end trim adjustment; Note that some dimmers require a neutral wire in the box.
- Wiring: Includes inline electrical orange LED Quick Connect and E26 medium socket adapter to provide mains connection

Retention

- Precision-formed Spring blades secure module with friction fit to compatible housings.
- Friction blade design allows the HLBT4 to be installed in any position within the housing aperture (360 degrees)

Trim

- The one-piece step self-flanged round trim ring provides reduced light leaks
- Injection-molded plastic construction is impact-resistant and non-corrosive
- Non-conductive construction meets most local dead-front code requirements

Gasket

- Closed-cell gasket achieves restrictive airflow requirements without additional caulking

Designer Overlays (sold separately)

- Overlays are accessory trims that attach to the fixture for a decorative finish

Recessed Housing Mounting

- Installs from below the ceiling to compatible 4" recessed housings with universal friction blade installation clips
- Not for use in recessed housings in direct contact with spray foam insulation refer to NEMA LSD 57-2013
- The included LED connector, and E26 medium socket adapter provide easy mounting to recessed housings
- Reference installation instructions for complete mounting step

Compliance

- cULus certified for US and Canada
- Wet location-listed
- Airtight per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 Class B consumer limits
- Contains no mercury or lead and RoHS compliant¹
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- ENERGY STAR® certified, reference Certified Light Fixtures database
- Certified to State of California Title 20, State regulated LED Lamp; reference Modernized Appliance Efficiency Database System (MAEDBS) for State-regulated LED Lamp
- Can be used for State of California Title 24 high efficacy LED compliance under JA8¹, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting

Warranty

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

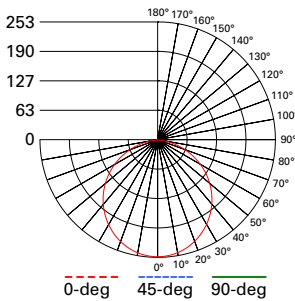
Energy Data

	HLBT407FS5
Lumens	700
Input Voltage	120V
Input Current	0.077A
Input Power	8.36W
Efficiency	80.69%
Inrush(A)	1.24A@86USEC
THD	12.60%
PF	0.965
T Ambient	-30 to +40 °C
Sound Rating	<22dBA @1feet
Efficacy(LPW)	94.81

HLBT407FS5				
CCT	Watts	Lumens	LPW	CRI
2700K	7.7	685	88.6	93
3000K	7.6	705	92.8	93
3500K	7.8	725	92.9	93
4000K	7.8	735	93.8	93
5000K	7.7	745	96.4	93

Photometric Data

[View IES files](#)



HLBT407FS5*-930
Spacing criterion:
(0-180) 1.26 | (90-270) 1.26 | (Diagonal) 1.38
Beam Angle: 111°
Field Angle: 161°
Lumens: 705
Input Watts: 7.6 W
Efficacy: 92.8 LPW
UGR: 29.3
Test Report: P832732

Zonal Lumen	Lumens	% Lumens
0-30	195.1	27.7
0-40	318.9	45.2
0-60	561.6	79.6
0-90	705	100

TM-30-15	Rf = 90
	Rg = 99
CRI/CIE	Ra = 93
	R9 = 96

CCT - Range of 2700K- 5000K

