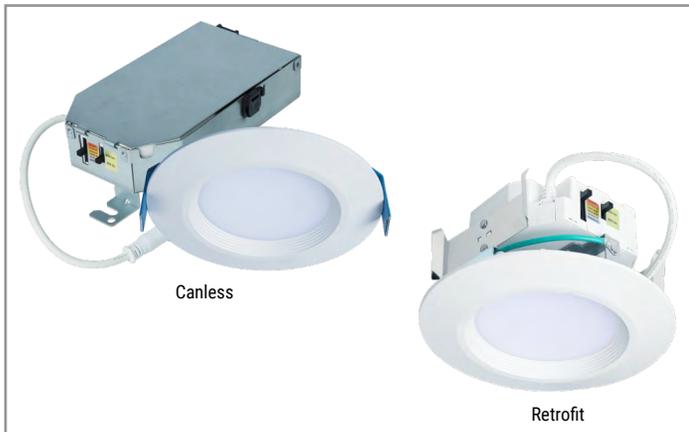


Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

HLBC4 Series

Ultra-Slim Regressed LED Downlight

Typical Applications

Residential • Multi-family/mixed use

Interactive Menu

- Order Information page 2
- Product Specifications page 5
- Energy Data page 5
- Photometric Data page 6
- 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.

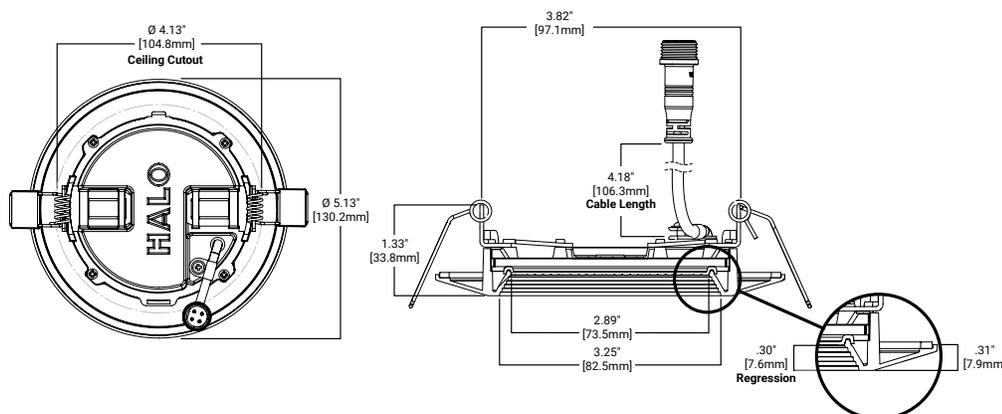
Product Features



Top Product Features

- Regressed prismatic lens creates superior glare reduction and visual comfort
- Ultra-slim design, installs in 2x4 plenum space
- Dual installation: options with canless or retrofit installation
- 6 selectable color temperature options
 - 2700K, 3000K, 3500K, 4000K, 5000K
 - Dim-to-warm technology included: use your dimmer to warm color temperature from 3000K to 1800K
- Dimmable down to 5%, options with phase cut or 0-10V control

Dimensional and Mounting Details



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **HLBC4069FSD2W1EMW**

Basic version

Canless installation only

Model	Lumens	CRI / CCT	Driver	Finish
Model	Lumens	CRI / CCT	Driver	Finish
HLBC4 = 4" ultra-slim regressed LED downlight	06 = 600 lumens (nominal)	9FSD2W = 90 CRI, selectable CCT with D2W option	1E = 120V 60Hz, LE & TE phase cut 5% dimming	MW = matte white flange
Notes	Notes	Notes	Notes	Notes

Dual Installation version

2-in-1 canless and retrofit installation

Model	Lumens	CRI / CCT	Driver	Finish	Installation	Compliance
Model	Lumens	CRI / CCT	Driver	Finish	Installation	Compliance
HLBC4 = 4" ultra-slim regressed LED downlight	LS = 600/900 selectable lumens (nominal)	9FSD2W = 90 CRI, selectable CCT with D2W option	1E = 120V 60Hz, LE & TE phase cut 5% dimming E010 = 120/277V 50Hz/60Hz, 0-10V dimmable	MW = matte white flange	R = canless or retrofit installation	[Blank] = compliant in all states besides California -CA = state of California compliant
Notes	Notes	Notes	Notes	Notes	Notes	Notes

Accessories

Accessories		
Mounting Frames HL4RSMF = 4" new construction mounting frame Extension Cables HLB06BLEEC = 6 ft. extension cable HLB12BLEEC = 12 ft. extension cable HLB20BLEEC = 20 ft. extension cable	Round Designer Trims HLBC4RTRMMW = 4" round designer trim, matte white HLBC4RTRMSN = 4" round designer trim, satin nickel HLBC4RTRMTBZ = 4" round designer trim, tuscan bronze HLBC4RTRMMB = 4" round designer trim, matte black	Square Designer Trims HLBC4STRMMW = 4" square designer trim, matte white HLBC4STRMSN = 4" square designer trim, satin nickel HLBC4STRMTBZ = 4" square designer trim, tuscan bronze HLBC4STRMMB = 4" square designer trim, matte black
Notes		



HLBC4RTRMMW
Matte White



HLBC4RTRMMB
Matte Black



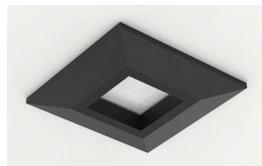
HLBC4RTRMSN
Satin Nickel



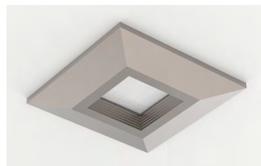
HLBC4RTRMTBZ
Tuscan Bronze



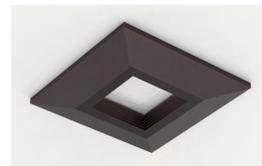
HLBC4STRMMW
Matte White



HLBC4STRMMB
Matte Black

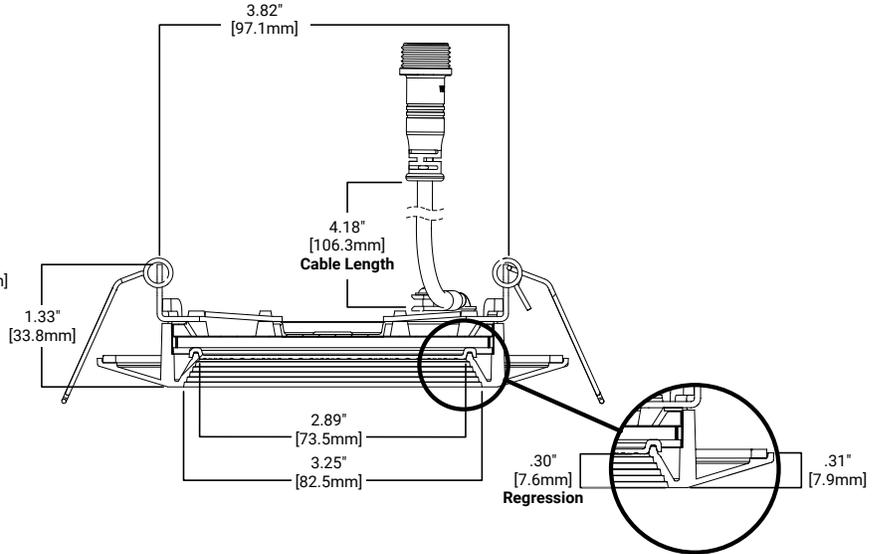
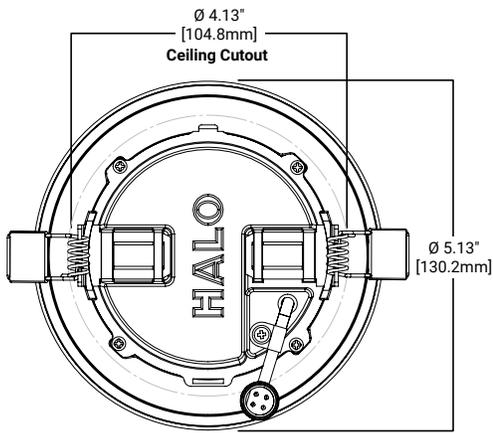


HLBC4STRMSN
Satin Nickel



HLBC4STRMTBZ
Tuscan Bronze

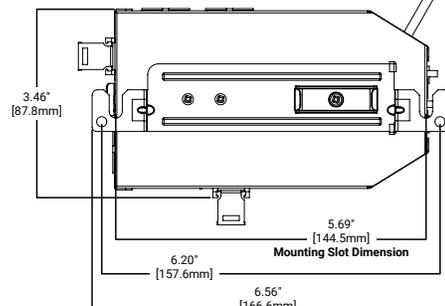
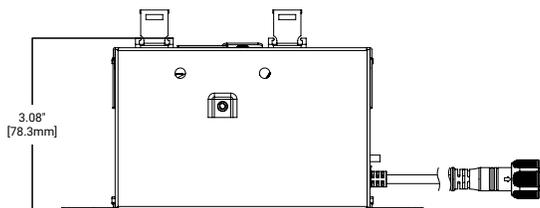
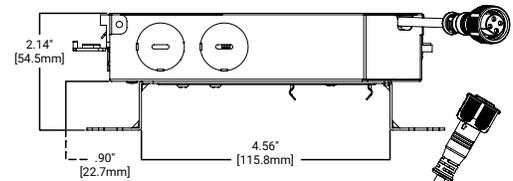
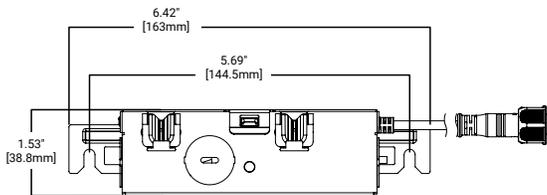
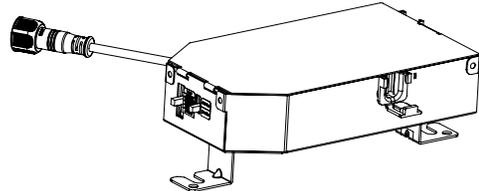
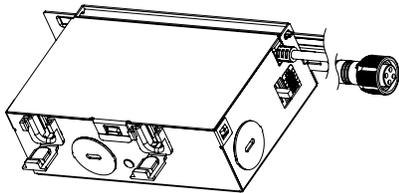
Dimensional and Mounting Details



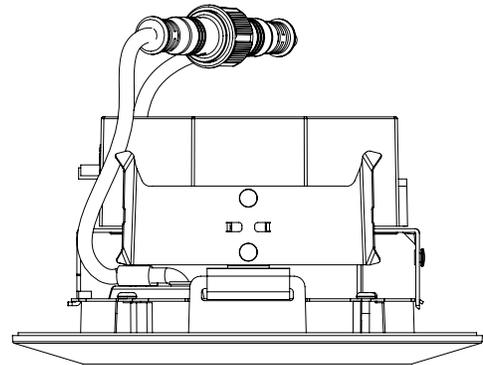
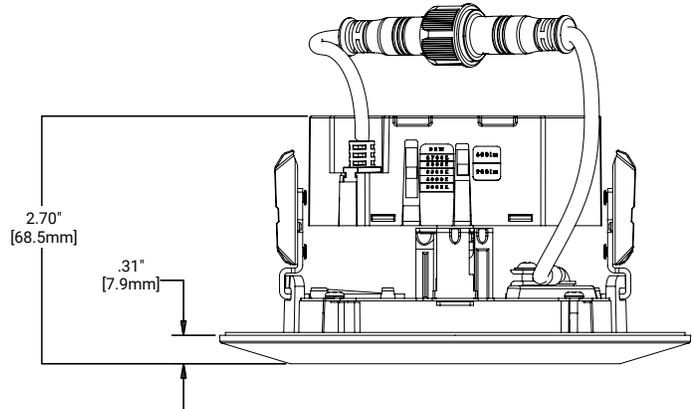
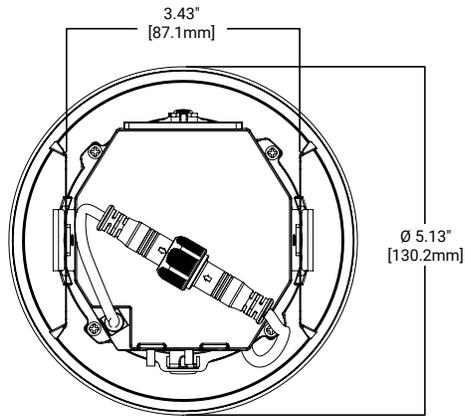
HLB COMFORT BASIC DRIVER



HLB COMFORT PLUS & 0-10V DRIVER, LUMEN SELECTABLE



Dimensional and Mounting Details



Compatible Housings

HALO - 4" Housings

Halo LED	H45ICAT*, H450FR2ICAT*
Standard Housing	H99ICAT, H99TAT, H995ICAT, H99T, H99ICT, E4ICATSB, E4TATSB
Shallow Housing	H245ICAT

Product Specifications

Construction

- Die cast aluminum flange
- Regressed lens
- High impact diffuse lens provides shielding to the light guide minimizing pixilation

Selectable System

- Use the CCT select switch to choose between D2W, 2700K, 3000K, 3500K, 4000K, and 5000K CCT
- D2W option starts at 3000K and warms to 1800K as fixture dims
- Use the lumen select switch on lumen selectable fixtures to choose brightness level

LED Array

- Mid power LED array provides a uniform source with high efficiency and no pixilation
- 90 CRI minimum, R9 greater than 50
- Color accuracy at 4 SDCM in between endpoints, provide color accuracy and uniformity
- Color Temperature (CCT) is set to a factory default of 3000K

Gasket

- Closed cell gasket achieves restrictive airflow and wet location listing without additional gaskets or caulking

Junction Box

- Die formed metal driver / junction box with captive hinged junction box cover
- Listed for (6) #12 AWG 90° C splice conductors, 2-in, 2-out plus (2) ground
- (4) 1/2" conduit pry-outs
- Accepts 14-2, 14-3, 12-2, 12-3 U.S. and 14-2, 14-3, 12-2 Canadian NM cable
- (3) 4-port push wire nuts with clear caps for quick and reliable mains voltage connections
- Integral mounting facilitates direct mounting to building structure or mounting frame

Driver

- Available in 120V or 120-277V, providing noise free operation
- Continuous flicker-free dimming down to 5% with select dimmers
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting, CMP/FT6 rated

Installation

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Round ceiling cutout
- Option for retrofit installation
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Fixture is less than 1/2" thick and can span a 2" nominal framing member
- Can be removed from below the ceiling for service or replacement

Compliance

- UL Certified US and Canada Type IC suitable for direct contact with air permeable insulation
- Not recommended for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Wet location listed and IP44 ingress protection
- Airtight per ASTM-E283-04
- 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 consumer limits
- 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 LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

Warranty

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

Energy Data

HLB Comfort Basic 4in 600LM

Lumens	600
Input Voltage	120V
Input Current	72mA
Input Power	8.5W
Efficiency	79.00%
Inrush(A)	1.14
THD	16%
PF	0.96
Sound Rating	<=22dba

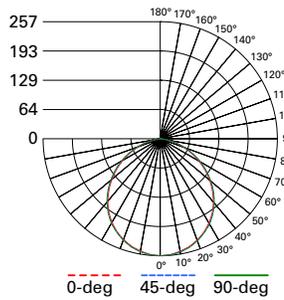
HLB Comfort Plus 4in 600/900LM

Lumens	600LM	900LM
Input Voltage	120V	120V
Input Current	78mA	110mA
Input Power	9W	13W
Efficiency	79.00%	79.00%
Inrush(A)	1.23	1.23
THD	17%	17%
PF	0.96	0.96
Sound Rating	<=22dba	<=22dba

HLB Comfort 0-10V 4in 600/900LM

Lumens	600LM	900LM
Input Voltage	120V-277V	120V-277V
Input Current	75mA@120V 35mA@277V	110mA@120V 50mA@277V
Input Power	8.5W	13W
Efficiency	81%@120V 78%@277V	81%@120V 78%@277V
Inrush(A)	2.08@120V 3.48@277V	2.08@120V 3.48@277V
THD	7.5%@120V 18.5%@277V	8.5%@120V 14%@277V
PF	0.991@120V 0.917@277V	0.994@120V 0.95@277V
Sound Rating	<=22dba	<=22dba

Photometric Data



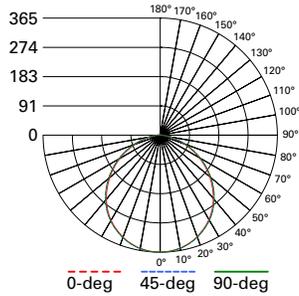
HLBC4069FSD2W1EMW-3000K

Spacing criterion:
 (0-180) 1.24 | (90-270) 1.24 | (Diagonal) 1.36
 Beam Angle: 105°
 Field Angle: 155°
 Lumens: 675
 Input Watts: 8.5 W
 Efficacy: 79 LPW
 UGR: 19.5
 Test Report: P626430

Zonal Lumen	Lumens	% Lumens
0-30	199	29.5
0-40	324	48.1
0-60	558	82.7
0-90	675	100

TM-30-15	Rf = 92
	Rg = 100
CRI/CIE	Ra = 97
	R9 = 81.1

CCT - Range of 2700K- 5000K



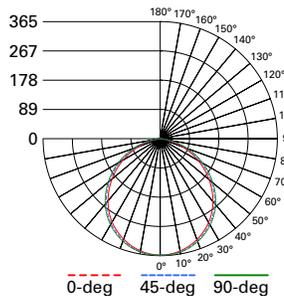
HLBC4LS9FSD2W1EMWR-3000K-900lm

Spacing criterion:
 (0-180) 1.26 | (90-270) 1.26 | (Diagonal) 1.36
 Beam Angle: 106°
 Field Angle: 155°
 Lumens: 975
 Input Watts: 13.2 W
 Efficacy: 74.3 LPW
 UGR: 21
 Test Report: P626437

Zonal Lumen	Lumens	% Lumens
0-30	282	29.0
0-40	460	47.3
0-60	798	81.9
0-90	975	100.0

TM-30-15	Rf = 93
	Rg = 101
CRI/CIE	Ra = 97
	R9 = 81

CCT - Range of 2700K- 5000K



HLBC4LS9FSD2WE010MWR-3000K-900lm

Spacing criterion:
 (0-180) 1.24 | (90-270) 1.26 | (Diagonal) 1.38
 Beam Angle: 105°
 Field Angle: 155°
 Lumens: 960
 Input Watts: 13 W
 Efficacy: 73.7 LPW
 UGR: 21.5
 Test Report: P626457

Zonal Lumen	Lumens	% Lumens
0-30	276	28.8
0-40	451	47.0
0-60	784	81.6
0-90	960	100.0

TM-30-15	Rf = 93
	Rg = 100
CRI/CIE	Ra = 97
	R9 = 80.9

CCT - Range of 2700K- 5000K

