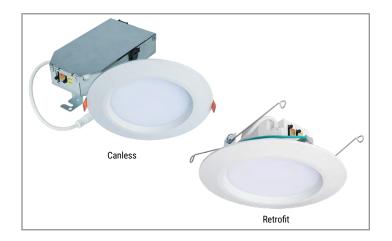
Project	Catalog #	Туре	
Prepared by	Notes	Date	



### 🖌 Interactive Menu

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

# HALO

### **HLBC6 Series**

Ultra-Slim Regressed LED Downlight

### **Typical Applications**

Residential • Multi-family/mixed use

### **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.

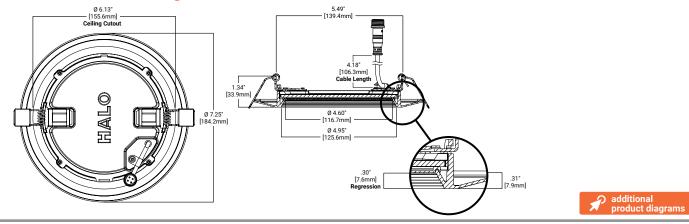
### **Product Features**



### **Top Product Features**

- · 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**





### **Order Information**

#### SAMPLE ORDER NUMBER: HLBC6099FSD2W1EMW

Basic version Canless installation only

Notes	notes	notes	Notes	notes
Notes	Notes	Notes	Notes	Notes
HLBC6 = 6" ultra-slim regressed LED downlight	09 = 900 lumens (nominal)	9FSD2W = 90 CRI, selectable CCT with D2W option	1E = 120V 60Hz, LE & TE phase cut 5% dimming	MW = matte white flange
Model	Lumens	CRI / CCT	Driver	Finish
Model	Lumens	CRI / CCT	Driver	Finish

#### **Dual Installation version**

2-in-1 canless and retrofit installation

Notes	Notes	Notes	Notes	Notes	Notes	Notes
<b>HLBC6</b> = 6" ultra-slim regressed LED downlight	LS = 900/1100 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	<b>R</b> = canless or retrofit installation	[Blank] = compliant in all states besides California -CA = state of California compliant
Model	Lumens	CRI / CCT	Driver	Finish	Installation	Compliance
Model	Lumens	CRI / CCT	Driver	Finish	Installation	Compliance

#### Accessories

	Accessories				
Mounting Frames HL6RSMF = 6" new construction mounting frame	Round Designer Trims HLBC6RTRMMW = 6" round designer trim, matte white HLBC6RTRMSN = 6" round designer trim, satin nickel	Square Designer Trims HLBC6STRMMW = 6" square designer trim, matte white HLBC6STRMSN = 6" square designer trim, satin nickel			
Extension Cables HLB06BLEEC = 6 ft. extension cable HLB12BLEEC = 12 ft. extension cable HLB20BLEEC = 20 ft. extension cable	HLBC6RTRMTBZ = 6" round designer trim, tuscan bronze HLBC6RTRMMB = 6" round designer trim, matte black	HLBC6STRMTBZ = 6" square designer trim, tuscan bronze HLBC6STRMMB = 6" square designer trim, matte black			
Notes					



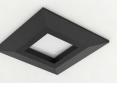
HLBC6RTRMMW Matte White



HLBC6STRMMW Matte White



HLBC6RTRMMB Matte Black



**HLBC6STRMMB** Matte Black



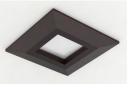
HLBC6RTRMSN Satin Nickel



HLBC6STRMSN Satin Nickel



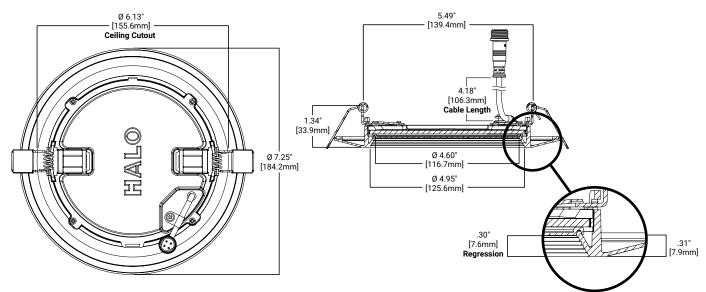
HLBC6RTRMTBZ Tuscan Bronze



HLBC6STRMTBZ Tuscan Bronze

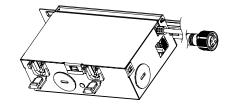


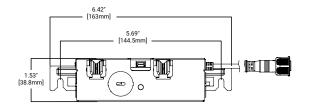
### **Dimensional and Mounting Details**

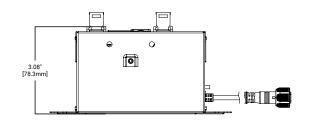




HLB COMFORT BASIC DRIVER

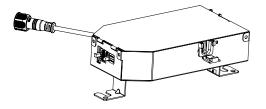


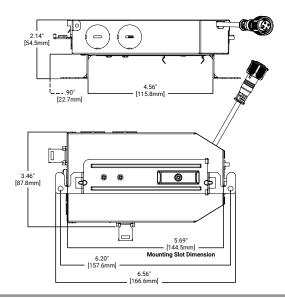






HLB COMFORT PLUS & 0-10V DRIVER, LUMEN SELECTABLE



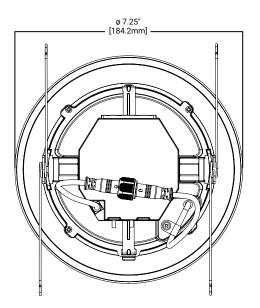


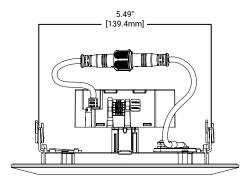


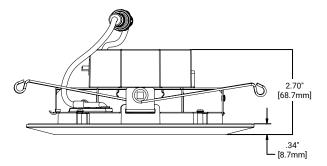
## **HLBC6 Series**

### **Dimensional and Mounting Details**









### **Compatible Housings**

### HALO - 6" Housings

HALO LED	H750ICAT, H2750ICAT, E750ICAT, H750FR2ICAT
Standard Housing	H7ICAT, H7ICT, E7ICAT, E7TAT, E7TAT



### **HLBC6** Series

### **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 ½" 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 protectionAirtight 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. <u>www.cooperlighting.com/warranty</u>

### **Energy Data**

#### **HLB Comfort Basic 6in 900LM**

Lumens	900
Input Voltage	120V
Input Current	102mA
Input Power	12.4W
Efficiency	79.00%
Inrush(A)	2.12
THD	14%
PF	0.96
Sound Rating	<=22dba

#### HLB Comfort Plus 6in 900/1200LM

Lumens	900LM	1200LM
Input Voltage	120V	120V
Input Current	92mA	132mA
Input Power	11W	16W
Efficiency	79.00%	79.00%
Inrush(A)	1.33	1.33
THD	16%	16%
PF	0.96	0.96
Sound Rating	<=22dba	<=22dba

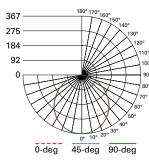
#### HLB Comfort 0-10V 6in 900/1200LM

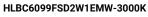
Lumens	900LM	1200LM
Input Voltage	120V-277V	120V-277V
Input Current	95mA@120V 45mA@277V	135mA@120V 62mA@277V
Input Power	11.5W	16.5W
Efficiency	81%@120V 79%@277V	81%@120V 79%@277V
Inrush(A)	2.28@120V 3.56@277V	2.28@120V 3.56@277V
THD	7.8%@120V 18.5%@277V	8.8%@120V 14.5%@277V
PF	0.991@120V 0.915@277V	0.994@120V 0.945@277V
Sound Rating	<=22dba	<=22dba



## HALO **Photometric Data**

### **HLBC6** Series



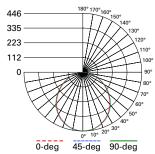


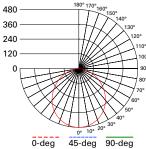
Spacing criterion: (0-180) 1.26 | (90-270) 1.26 | (Diagonal) 1.38 Beam Angle: 100° Field Angle: 158° Lumens: 1010 Input Watts: 12.3 W Efficacy: 82 LPW UGR: 18.9 Test Report: P626455

Zonal Lumen	Lumens	% Lumens
0-30	288	28.6
0-40	470	46.6
0-60	819	81.1
0-90	1010	100.0

TM-30-15	Rf = 93	
	Rg = 102	
CRI/CIE	Ra = 97.1	
	R9 = 87.2	
CCT - Range of 2700K- 5000K		







### HLBC6LS9FSD2W1EMWR-3000K-1200Im

Spacing criterion: (0-180) 1.24 | (90-270) 1.26 | (Diagonal) 1.36 Beam Angle: 107° Field Angle: 157° Lumens: 1220 Input Watts: 15.8 W Efficacy: 77.4 LPW UGR: 19.9 Test Report: P626437

Zonal Lumen	Lumens	% Lumens
0-30	346	28.4
0-40	565	46.3
0-60	983	80.5
0-90	1220	100.0

TM-30-15	Rf = 93	
	Rg = 102	
CRI/CIE	Ra = 97	
	R9 = 86.5	
CCT - Range of 2700K- 5000K		





Spacing criterion:
(0-180) 1.24   (90-270) 1.30   (Diagonal) 1.36
Beam Angle: 108°
Field Angle: 158°
Lumens: 1270
Input Watts: 16.4 W
Efficacy: 77.3 LPW
UGR: 19.1

ו	Zonal Lumen	Lumens	% Lumens
	0-30	370	28.1
	0-40	600	47.3
	0-60	1036	81.6
	0-90	1270	100.0

TM-30-15	Rf = 93	
1101-30-13	Rg = 102	
CRI/CIE	Ra = 97	
	R9 = 86.5	
CCT - Range of 2700K- 5000K		





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Specifications and dimensions subject to change without notice.