

Project		Catalog #		Type	
Prepared by		Notes		Date	



# HALO

## HLBE Series

Ultra-Slim LED Downlight with Remote Junction Box  
Contractor Bulk Packs

### Typical Applications

Residential

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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 J48.

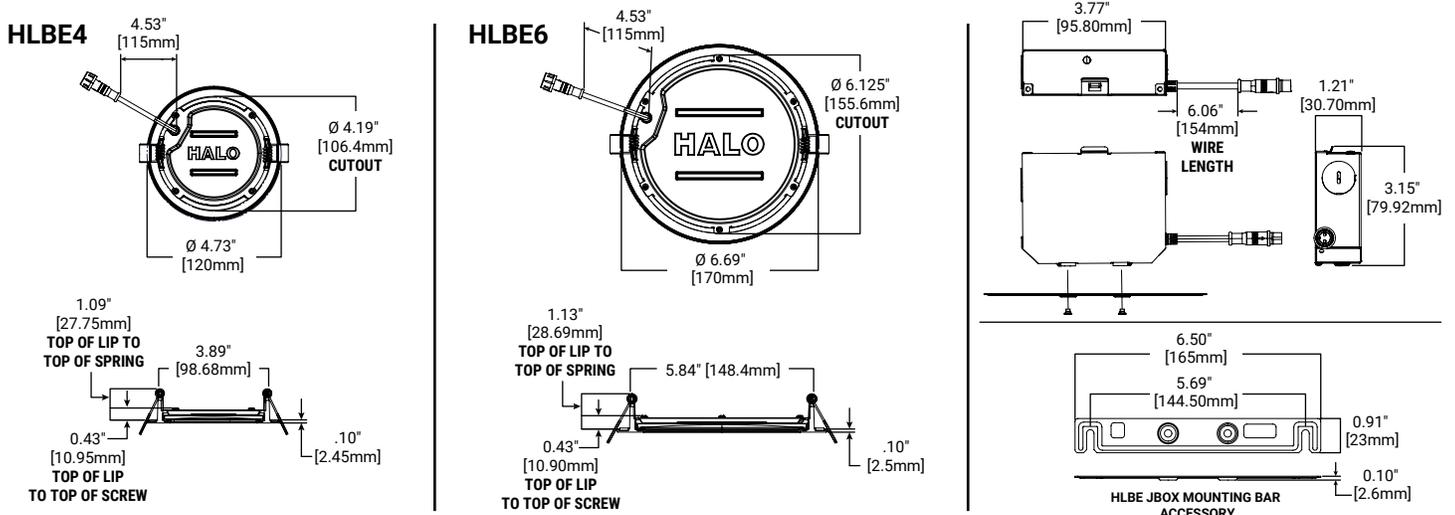
### Product Features



### Top Product Features

- Sold in contractor friendly bulk packs
- Ultra-slim design, installs in 2x2 plenum space
- Canless installation, no additional housing or junction box required
- 3000K fixed CCT
- Dimmable down to 10%

### Dimensional and Mounting Details



## Order Information

SAMPLE ORDER NUMBER: **HLBE6099301EMWR-24PK**

4-inch	Lumens	CRI / CCT	Driver	Finish	Packaging	Pack Size
4-inch	Lumens	CRI / CCT	Driver	Finish	Packaging	Pack Size
<b>HLBE4</b> = 4-inch LED surface light	<b>06</b> = 600 lumens (nominal)	<b>930</b> = 90 CRI minimum, 3000K CCT	<b>1E</b> = 120V 60Hz, LE & TE phase cut 10% dimming	<b>MW</b> = matte white flange	<b>R</b> = recyclable packaging	<b>-12PK</b> = 12 bulk pack <b>-24PK</b> = 24 bulk pack
Notes	Notes	Notes	Notes	Notes	Notes	Notes

6-inch	Lumens	CRI / CCT	Driver	Finish	Packaging	Pack Size
6-inch	Lumens	CRI / CCT	Driver	Finish	Packaging	Pack Size
<b>HLBE6</b> = 6-inch LED surface light	<b>09</b> = 900 lumens (nominal)	<b>930</b> = 90 CRI minimum, 3000K CCT	<b>1E</b> = 120V 60Hz, LE & TE phase cut 10% dimming	<b>MW</b> = matte white flange	<b>R</b> = recyclable packaging	<b>-12PK</b> = 12 bulk pack <b>-24PK</b> = 24 bulk pack
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### Accessories

4-inch Accessories	6-inch Accessories
<b>HLBEMOUNT-12PK</b> = HLBE Mounting Bar 12 pack <b>HL4RSMF</b> = 4-inch New Construction Mounting Frame <b>HLB4RTRMMW</b> = 4-inch Round Decorative Overlay, Matte White <b>HLB4RTRMSN</b> = 4-inch Round Decorative Overlay, Satin Nickel <b>HLB4RTRMTBZ</b> = 4-inch Round Decorative Overlay, Tuscan Bronze <b>HLB4RTRMMB</b> =4-inch Round Decorative Overlay, Matte Black	<b>HLBEMOUNT-12PK</b> = HLBE Mounting Bar 12 pack <b>HL6RSMF</b> = 6-inch New Construction Mounting Frame <b>HLB6RTRMMW</b> = 6-inch Round Decorative Overlay, Matte White <b>HLB6RTRMSN</b> = 6-inch Round Decorative Overlay, Satin Nickel <b>HLB6RTRMTBZ</b> = 6-inch Round Decorative Overlay, Tuscan Bronze <b>HLB6RTRMMB</b> =6-inch Round Decorative Overlay, Matte Black

## Product Specifications

### Construction

- Die cast aluminum
- Smooth polymer lens

### Optics

- Precision acrylic light guide organizes source flux into wide distribution with 1.28 spacing criteria, useful for general area illumination LED Array
- Plurality of mid power LED's provides a uniform source with high efficiency and long life
- Available in 90 CRI minimum, R9 greater than 50 provides high color rendering
- 3000K static color temperature
- Color accuracy of 3 step at the ends, 4 step in the middle
- Meets ENERGY STAR® color angular uniformity requirements, deviation is less than 0.006 u' v'

### Junction Box

- Die hinged 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
- (2) 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) twist on wire nuts for quick and reliable mains voltage connections
- Integral mounting facilitates direct mounting to building structure or mounting frame

### Driver

- 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 10% with select leading or trailing edge 120V phase cut dimmers

### Installation

- Can be installed in 3/8" to 7/8" thick ceilings
- Round ceiling cutout
- 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](http://www.cooperlighting.com/warranty)

## Energy Data

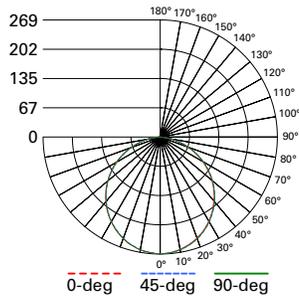
### HLBE4

Lumens	600 Series
Input Voltage	120V
Input Current	82mA
Input Power	10W
Efficiency	81.92%
Inrush (A)	2.11
THD	15.8
PF	0.971
Sound Rating	≤ 22 dba

### HLBE6

Lumens	900 Series
Input Voltage	120V
Input Current	111mA
Input Power	13.5W
Efficiency	81.44%
Inrush (A)	2.6
THD	13.7
PF	0.979
Sound Rating	≤ 22dba

## Photometric Data



### HLBE4069301EMWR -600LM -3000K

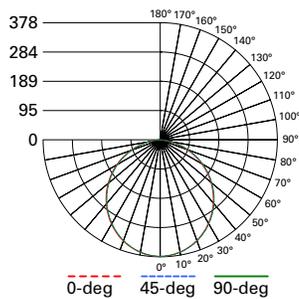
Spacing criterion:  
 (0-180) 1.24 | (90-270) 1.24 | (Diagonal) 1.36  
 Beam Angle: 110°  
 Field Angle: 110°  
 Lumens: 750  
 Input Watts: 10.0 W  
 Efficacy: 75 LPW  
 UGR: 22  
 Test Report: P622889

Zonal Lumen	Lumens	% Lumens
0-30	270	27.7
0-40	339	45.2
0-60	596	79.5
0-90	750	100

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 93.8
	R9 = 63.7



110°



### HLBE6099301EMWR -900LM -3000K

Spacing criterion:  
 (0-180) 1.24 | (90-270) 1.24 | (Diagonal) 1.35  
 Beam Angle: 112°  
 Field Angle: 112°  
 Lumens: 1045  
 Input Watts: 13.1 W  
 Efficacy: 79 LPW  
 UGR: 20  
 Test Report: P622890

Zonal Lumen	Lumens	% Lumens
0-30	290	27.8
0-40	474	45.4
0-60	832	79.6
0-90	1045	100

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 93.7
	R9 = 63



112°

## Product Specifications

### HLBE4069301EMWR

PRODUCT SPECIFICATIONS	
Lumens	740
Watts	10.2
Lumens Per Watt (Efficacy)	72.5
Color Accuracy (CRI)	90
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white	soft white
2700K	3000K
4500K	bright white
4500K	6500K

### HLBE6099301EMWR

PRODUCT SPECIFICATIONS	
Lumens	1025
Watts	13.3
Lumens Per Watt (Efficacy)	77.1
Color Accuracy (CRI)	90
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white	soft white
2700K	3000K
4500K	bright white
4500K	6500K