DESCRIPTION

The HLB6 is a 6-inch ultra-thin LED lens downlight with remote driver / junction box suitable for new construction and remodel applications. Field selectable color temperature and high color rendering provide excellent color performance. Simplified installation in drywall or suspended ceilings eliminates recessed cans saving time and money. Installs from below the ceiling in as little as 2" plenum height, can be used in direct contact with insulation and is airtight. Use for general area lighting in low to medium height ceilings where energy savings, long life and economy are required.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

HOUSING

- Die cast aluminum mounting frame with integral flange provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications
- High impact diffuse lens provides Integral keyhole mounting shielding to the light guide minimizing pixilation.

GASKET

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

OPTICS

 Precision acrylic light guide organizes source flux into wide distribution with 1.32 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 and color accuracy within 4 SDCM providing color uniformity
- Field selectable color temperature, select 2700, 3000, 3500, 4000 or 5000 K CCT
- Meets ENERGY STAR® color angular uniformity requirements, deviation is less than 0.006 u' v'

REMOTE DRIVER / JUNCTION

- · Aluminum driver / junction box with captive hinged junction box cover
- Listed for (6) #12 AWG 90° C splice conductors, 2-in, 2-out plus (2) around
- (2) ½" conduit pry-outs
- (2) Slide-N-Side™ non-metallic (NM) wire traps allows wiring outside the box

- 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
- slots facilitate direct mounting to building structure or new construction mounting frame

DRIVER

- 120V 60 Hz constant current driver provides noise free operation
- · Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting

INSTALLATION

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Cutout utilizes standard round hole saw sizes, cutout template provided
- · Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Housing is less than ½" thick and can span a 2" nominal framing member
- · Can be removed from below the ceiling for service or replacement

OPTIONAL MOUNTING FRAME

- · Pre-galvanized steel mounting frame locates fixture fittings during electrical rough in and provides cutout guidance for drywall contractor
- · Provides tool-less attachment of remote driver / junction box

COMPLIANCE

- cULus certified 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
- 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 2016 JA8 High **Efficacy Lighting**
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

WARRANTY

 Five year limited warranty, consult website for details. www.eaton.com/lighting/legal



HLB6

6-Inch Ultra-thin LED Lens Downlight with **Remote Driver / Junction**

> Up to 1100 Lumens Field Selectable CCT



4000K • 5000K

ENERGY DATA				
Lumens	900 Series			
Input Voltage	120V			
Input Current	132 (mA)			
Input Power	16.0 (W)			
Efficiency	66 (LPW)			
Inrush (A)	2.1 A @ 14mS			
THD	≤ 20%			
PF	≥ 0.90			
T Ambient	-30° - +40°C			
Sound Rating	≤ 20 dba			











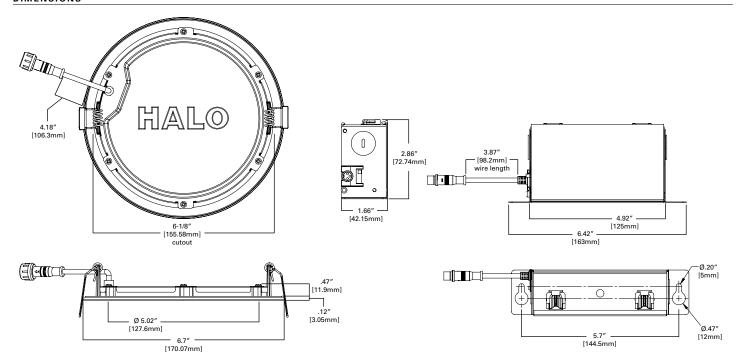
Refer to ENERGY STAR® Certified Products List Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8.











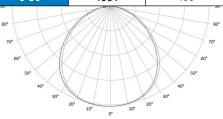
ORDERING INFORMATION

SAMPLE NUMBER: HLB6099FS1EMWR

Models	Lumens	CRI / CCT	Driver	Finish	Packaging	Accessories
HLB6 = 6-Inch ultra-thin LED lens downlight with remote driver / junction box	09 =900 lumen (nominal)	9FS =90 CRI minimum, field selectable 2700, 3000, 3500, 4000 or 5000 K CCT	1E = 120V 60Hz, LE &TE phase cut 5% dimming	MW= matte white flange	R= recyclable 4-color unit carton suitable for point of purchase merchandizing display	HL6NCMF = 6" new construction mounting frame

PHOTOMETRIC DATA

HLB6099FS1EMWR-3000K			
Luminair	1061		
Input	16		
LER (66.3		
	0-180	1.31	
Spacing Criteria	90-270	1.31	
Ontona	Diagonal	1.41	
Beam angl	112.2		
Field angle	161.3		
Zonal lumen	Lumens	% Lumens	
0-30	294	27.7	
0-40	486	45.8	
0-60	851	80.2	
0.00	1001	100	
0-90	1061	100	



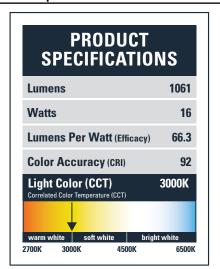
^{*} Tested in accordance with IES LM63. Field results may vary.

Color Metric Summary - 3000K

TM-30-15	Rf = 90.9	
1101-30-13	R _g = 100.7	
CRI/CIE	Ra = 94.1	
	R9 = 68.4	110°

CCT - Range of 2700K- 5000K

Product Specifications



	ССТ	Lumens	Power (W)	LPW
6in HLB	2700K	1037.3	16	64.8
	3000K	1061	16	66.3
	3500K	1078.9	16	67.4
	4000K	1094.9	16	68.4
	5000K	1103.4	16	69

