#### 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 1-1/2" 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.

#### 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
- 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 1.4 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
- Fixed 3000 and 4000 K CCT color temperatures, color accuracy within 3 SDCM
- Optional field selectable color temperature, select 2700, 3000, 3500, 4000 or 5000 K CCT, color accuracy within 4 SDCM
- Meets Energy Star color angular uniformity requirements, deviation is less than 0.006 u' v'
- **REMOTE DRIVER / 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
- (2) 1/2" conduit pry-outs • (2) Slide-N-Side<sup>™</sup> 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
- High impact diffuse lens provides Integral mounting holes facilitate 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 5% with select leading or trailing edge 120V phase cut 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
- 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 1/2" 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 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 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 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

HALO

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

> Up to 1100 Lumens **Field Selectable CCT**



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	<b>≤ 20%</b>		
PF	≥ 0.90		
T Ambient	-30° - +40°C		
Sound Rating	≤ 22dba		





CERTIFIED



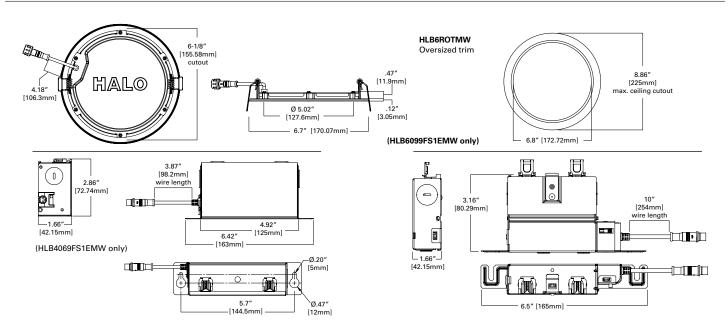
#### Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice

**IECC** 

Refer to ENERGY STAR® Certified Products List

# Catalog # Туре Project Comments Prepared by



### ORDERING INFORMATION

SAMPLE NUMBER: HLB6099FS1EMWR

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
HLB6 = 6-Inch LED lens downlight with remote driver / junction box	<b>09</b> = 900 lumen (nominal)	930 = 90 CRI minimum, 3000 K CCT 940 = 90 CRI minimum, 4000 K CCT 9FS = 90 CRI minimum, field selectable 2700, 3000, 3500, 4000 or 5000 K CCT	1E = 120V 60Hz, LE &TE phase cut 5% dimming	<b>MW</b> = matte white flange	R = recyclable 4-color unit carton suitable for point of purchase merchandising display
Accessories					
HL6NCMF = 6" new construction mounting frame		Extension Cable   Dedicated Driver/Jbox			

HLB06EC - 6 ft. extension cable HLB12EC - 12 ft. extension cable

HLB20EC - 20 ft. extension cable

Extension Cable | seleCCTable Driver/Jbox HLB06FSEC - 6 ft. extension cable HLB12FSEC - 12 ft. extension cable HLB20FSEC - 20 ft. extension cable

HL6NCMF = 6" new construction mounting frame HLB6ROTMW = 6" round oversized trim, matte white

Designer Trims HLB6RTRMMW = 6" round decorative overlay, matte white HLB6RTRMISN = 6" round decorative overlay, statin nickel HLB6RTRMTBZ = 6" round decorative overlay, statin nickel

## PHOTOMETRIC DATA

HLB6099FS1EMWR-3000K			
Luminaire lumens		1061	
Input watts		16	
LER (	66.3		
	0-180	1.31	
Spacing Criteria	90-270	1.31	
ontonia	Diagonal	1.41	
Beam angle (degrees)		112.2	
Field angle	161.3		
Zonal lumen Lumens		% Lumens	
0-30	294	27.7	
0-40	486	45.8	
0-40 0-60	486 851	45.8 80.2	

\* Tested in accordance with IES LM63. Field results may vary.

#### **Color Metric Summary - 3000K**

1		Rf = 90.9	L 👗
	TM-30-15	Rg = 100.7	
	CRI/CIE	Ra = 94.1	
		R9 = 68.4	110°

CCT - Range of 2700K- 5000K

#### **Product Specifications**

Lumens	106
Watts	14
Lumens Per W	/att (Efficacy) 74
Color Accura	cy (CRI) S
Light Color (C Correlated Color Temper	

HLB6 6-inch	ССТ	Lumens	Power (W)	LPW
Fixed CCT	3000K	992.3	13.6	73.4
	4000K	1057.7	13.6	78.0
Field Selectable CCT	2700K	1037.3	16.0	64.8
	3000K	1061.0	16.0	66.3
	3500K	1078.9	16.0	67.4
	4000K	1094.9	16.0	68.4
	5000K	1103.4	16.0	69.0