

# Day-Brite

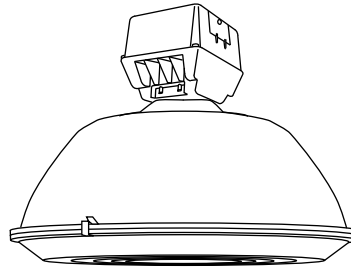
## CFI

by  Signify

### Industrial

LBH low bay

150-400W MH, HPS, or PSMH



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Day-Brite / CFI LBH low bay is a high efficiency low bay luminaire designed for use in general purpose retail, educational and industrial applications.

#### Ordering guide

Example: **LBH400PMT-PSC LR28**

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical Assembly
<b>LBH</b>			—		
<b>LBH</b>	150 150 175 175 <sup>4</sup> 200 200 <sup>31</sup> 250 250 320 320 <sup>30</sup> 350 350 <sup>30</sup> 400 400	<b>M</b> Metal Halide <b>S</b> High Pressure Sodium <b>P</b> Pulse Start Metal Halide (PSC ballasts option must be specified to comply with EISA for 175W-400W)	<b>12</b> 120 <b>20</b> 208 <b>24</b> 240 <b>27</b> 277 <b>34</b> 347 <b>48</b> 480 <b>MT</b> 120/208 240/277 <b>TT</b> 120/277 347 <b>2T</b> 208/277 (WEB only)	<b>CUL</b> UL Listing to meet CSA standards <b>WEB</b> Pulse Start Electronic Ballast (Consult factory for available voltages and ambient temperature rating <sup>48</sup> <b>OR</b> Option required for metal halide and pulse start metal halide lamps (exclusionary "pink" socket) <b>PSC</b> Pulse Start CWA Ballast <b>Q</b> Quartz Standby <b>QEM</b> Quartz Emergency <sup>40</sup> <b>QTD</b> Quartz Time Delay <b>WDF</b> Wired Double Fuse <sup>45</sup> <b>WSF</b> Wired Single Fuse <sup>46</sup>	<b>LR23</b> Acrylic Lens 23" <b>LR23P</b> Polycarbonate Lens 23" <b>LR28</b> Acrylic Lens 28" <b>LR28P</b> Polycarbonate Lens 28"

#### Accessories (order separately)

- **CH** Cover Half for Power Hook (use with PB)
- **PB** Power Box for Power Hook (use with CH)
- **HMR** Suspension Hook Male
- **LMR** Suspension Loop Male
- **HP12-3** 3' Hook-Cord-Plug Assembly 120V
- **HP25-3** 3' Hook-Cord-Plug Assembly 208-240V
- **HP27-3** 3' Hook-Cord-Plug Assembly 277V
- **HP48-3** 3' Hook-Cord-Plug Assembly 480V
- **SCB3** Ballast Retainer Chain 3'
- **WGLR23** Wire Guard 23"
- **WGLR28** Wire Guard 28"

(Refer to Section 18000 for additional accessories.)

#### Footnotes

- <sup>4</sup> Not available in High Pressure Sodium
- <sup>30</sup> Pulse Start Metal Halide Only.
- <sup>31</sup> Not available in standard Metal Halide.
- <sup>40</sup> Requires 120 volt secondary power supply.
- <sup>45</sup> Use with 208, 240, and 480 volt.
- <sup>46</sup> Use with 120, 277, and 347 volt.
- <sup>48</sup> May require deep ballast housing.

#### General Notes

- All accessories are field installed.
- Mogul base lamp only.
- All options factory installed.
- Ballast assembly and optical assembly to be ordered and shipped separately.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- **Warning:** Refer to and follow the lamp manufacturer's warnings and instructions.



Standard Metal Halide  
 Between 175W and 400W  
 Not available in USA



# LBH Low bay

150-400W MH, HPS, or PSMH

## Application

- The Day-Brite / LBH low bay is a high efficiency low bay luminaire designed for use in general purpose retail, educational and industrial applications.

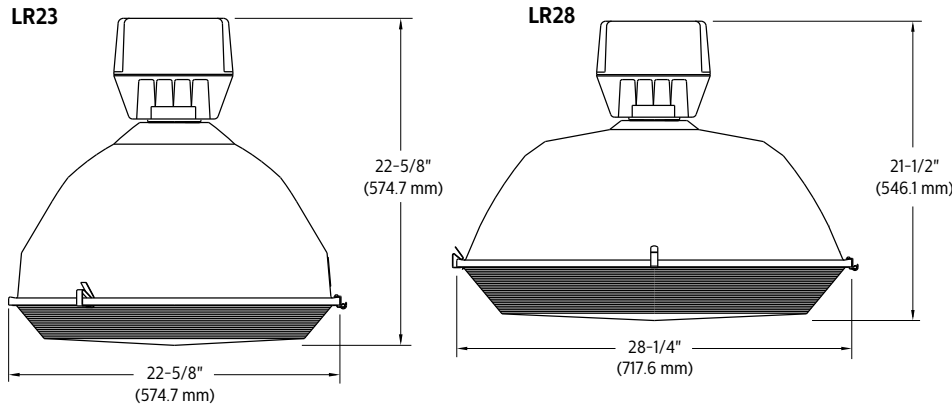
## Construction/Finish

- UL 1598 Listed suitable for damp location and 55°C ambient for all lamp wattages listed with magnetic ballast. Consult factory for ambient temperature rating for electronic ballast. (WEB option).
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.

- Use "O" rated, protect metal halide lamps only.
- Heavy wall, one piece die cast aluminum housing with white polyester powder finish.
- Day-Brite "Slant 2" ballast mounting for cooler operation. Ballast has high temperature class H insulation and a minimum starting temperature of -40°C (-40°F) for HPS and Pulse Start MH or -30°C (-20°F) for MH.
- Precision spun heavy gauge aluminum reflector coated inside and out with highly reflective (90-92%) white polyester powder finish.

- One piece injection molded 100% virgin acrylic lens hinged and latched to the reflector for ease of installation and maintenance. UL Listed for Metal Halide arc tube containment.
- Large wiring access with captive retainer screw.

## Dimensions



## Energy Data

HIGH PRESSURE SODIUM		
HX BALLAST INPUT WATTS		
150 watt-188 watts		
CWA BALLAST INPUT WATTS		
200 watt-240 watts		
250 watt-295 watts		
310 watt-365 watts		
400 watt-464 watts		
METAL HALIDE		
HX BALLAST INPUT WATTS		
150 watt-185 watts		
BALLAST INPUT WATTS		
	CWA	WEB
150 watt	189 watts	163 watts
175 watt	210 watts	-
200 watt	232 watts	213 watts
250 watt	295 watts	263 watts
320 watt	368 watts	-
350 watt	400 watts	363 watts
400 watt	458 watts	413 watts

# LBH Low bay

150-400W MH, HPS, or PSMH

## Photometry

LBH 400W MH LR28																	
MEDIUM SPREAD S/MH = 1.8																	
TEST NO. 19950																	
DISTRIBUTION CURVE		COEFFICIENTS OF UTILIZATION				AVERAGE BRIGHTNESS				ZONAL SUMMARY				CANDLEPOWER			
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)		ZONE				END				Degrees				Angle			
CEIL 80 70 50 30 10		45				23196				(0-30)				5			
WALL 70 50 30 10 70 50 30 10 50 30 10 50 30 10		55				26538				(0-40)				15			
RCR		65				20334				(0-60)				25			
0 97 97 97 97 94 94 94 94 89 89 89 89 84 84 84 80 80 80		75				11774				(0-90)				35			
1 87 83 79 75 84 80 77 73 76 73 70 72 69 67 68 66 64		85				9498				(90-180)				45			
2 78 71 64 59 75 69 63 58 65 60 56 61 57 54 58 55 52		COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS				55				(0-180)				65			
3 70 61 53 47 68 59 52 47 56 50 45 53 48 44 50 46 43		= \$3.33 BASED ON 3000 HRS. AND \$.08 PER KWH.				75				75				85			
4 64 53 45 39 61 51 44 38 49 42 37 46 41 36 44 39 35		LER=72				85				85				1097			
5 58 46 38 32 56 45 38 32 43 36 31 41 35 30 39 34 30		These photometric results were obtained in the Philips Day-Brite Lighting Laboratory which is NVLAP				These photometric results were obtained in the Philips Day-Brite Lighting Laboratory which is NVLAP				These photometric results were obtained in the Philips Day-Brite Lighting Laboratory which is NVLAP				These photometric results were obtained in the Philips Day-Brite Lighting Laboratory which is NVLAP			
6 53 41 33 27 51 40 33 27 38 31 26 36 30 26 34 29 25		accredited by the National Institute of Standards and Technology.				accredited by the National Institute of Standards and Technology.				accredited by the National Institute of Standards and Technology.				accredited by the National Institute of Standards and Technology.			
7 49 37 29 23 47 36 28 23 34 27 23 32 27 22 31 26 22																	
8 45 33 26 20 43 32 25 20 31 24 20 29 24 19 28 23 19																	
9 42 30 23 18 40 29 22 18 28 22 17 27 21 17 26 20 17																	
10 39 27 20 16 38 27 20 16 26 20 15 25 19 15 24 18 15																	

### ADDITIONAL TEST NUMBERS

DESCRIPTION	S/MH	TEST NUMBER
LBH400S-LR28	1.8	20146
LBH400M-LR23	1.7	18671
LBH400S-LR23	1.7	18727



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

