

# Day-Brite

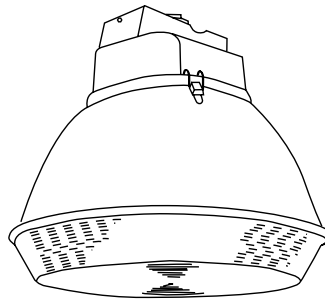
## CFI

by Signify

### Industrial

LLB low bay

50-250W MH or HPS  
150-250W PSMH



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

Day-Brite / CFI LLB low bay provides the industry's highest efficiency for general purpose industrial lighting. A geometrically balanced fixture, this small luminaire can be mounted within 6' of the working surface.

#### Ordering guide

Example: **LLB250PMT-PSC-OR LRA**

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical Assembly
<b>LLB</b>			—		
<b>LLB</b>	<b>050</b> 050MED <sup>5</sup> <b>070</b> 070 MED <b>100</b> 100 MED <b>150M</b> 150M MED <b>150S</b> 150S MOG <b>175</b> 175 MOG <sup>4</sup> <b>200</b> 200 MOG <sup>31</sup> <b>250</b> 250 MOG	<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-250W)	<b>12</b> 120 <b>20</b> 208 <b>24</b> 240 <b>27</b> 277 <b>34</b> 347 <b>48</b> 480 <sup>32</sup> <b>DT</b> 120/277 <b>MT</b> 120/208 240/277	<b>CUL</b> UL Listing to meet CSA standards <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>55</b> 55°C Ambient <sup>61</sup>	<b>LRA</b> Acrylic Lens <b>LRP</b> Polycarbonate Lens

#### 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'
- **WGLRA** Wire Guard

(Refer to Section 18000 for additional accessories.)

#### Footnotes

- <sup>4</sup> Not available in High Pressure Sodium
- <sup>5</sup> DT only
- <sup>31</sup> Not available in standard Metal Halide
- <sup>32</sup> Not available in 70W Metal Halide
- <sup>35</sup> Available in 150-400W High Pressure Sodium
- <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>61</sup> Available in 70W and below

#### General Notes

- All accessories are field installed.
- 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 250W  
Not available in USA



# LLB Low bay

50-250W MH or HPS, 150-250W PSMH

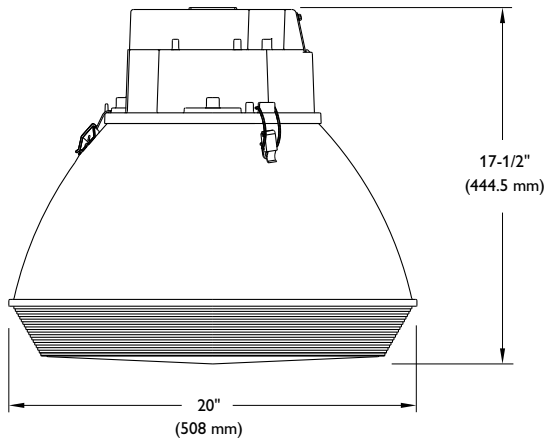
## Application

- The Day-Brite / CFI LLB low bay provides the industry's highest efficiency for general purpose industrial lighting. A geometrically balanced fixture, this small luminaire can be mounted within 6' of the working surface.
- Ballast has high temperature class H insulation and a minimum starting temperature of  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ) for HPS and Pulse Start MH or  $-30^{\circ}\text{C}$  ( $-20^{\circ}\text{F}$ ) for MH.
- Corrosion resistant stainless steel latches.

## Construction/Finish

- UL 1598 Listed suitable for wet location and  $40^{\circ}\text{C}$  ambient for all lamp wattages listed.
- Use "O" rated, protected metal halide lamps only.
- $3/4$ " threaded cast aluminum nut and hub for easy, positive mounting.
- Heavy wall, one piece die cast aluminum housing with white polyester powder finish.
- Precision spun heavy gauge aluminum reflector coated inside and out with highly reflective (90-92%) white polyester powder finish.
- One piece injection molded lens;  $3/16$ " minimum thickness of 100% virgin acrylic for excellent brightness control and high efficiency.
- Large wiring access with captive retainer screw.

## Dimensions



## Energy Data

<b>HIGH PRESSURE SODIUM</b>	
HX BALLAST INPUT WATTS	
50 Watt	66 Watts
70 Watt	91 Watts
100 Watt	130 Watts
150 Watt	188 Watts
CWA BALLAST INPUT WATTS	
200 Watt	240 Watts
250 Watt	295 Watts
<b>METAL HALIDE</b>	
HX BALLAST INPUT WATTS	
50 Watt	72 Watts
70 Watt	90 Watts
100 Watt	129 Watts
150 Watt	185 Watts
CWA BALLAST INPUT WATTS	
150 Watt	189 Watts
175 Watt	210 Watts
200 Watt	232 Watts
250 Watt	295 Watts

# LLB Low bay

150-400W MH or HPS, 150-450W PSMH

## Photometry

		Candlepower				Light Distribution				Average Brightness													
Catalog No.	LLB250WMH-LRA	Angle	Avg. Candela	Angle	Avg. Candela	Degrees	Lumens	% Lamp	% Luminaire	Zone	End	45	Cross										
Test No.	17440	0	3078	95	349	0-30	2595	11.8	15.5	45	22609	21298	21272										
Wide Spread S/MH	1.9	5	3107	105	370	0-40	4762	21.6	28.4	55	26412	23853	24275										
Lamp Type	250W MH	15	2915	115	191	0-60	11444	52.0	68.2	65	18472	16718	17830										
Lumens/Lamp	22,000	25	3174	125	140	0-90	15591	70.9	92.9	75	13408	11456	12596										
Ballast Factor	1.0	35	3392	135	119	90-180	1193	5.4	7.1	85	9838	7815	9642										
Input Watts	295	45	4112	145	3	0-180	16784	76.3	100.0														
		55	4025	155	0																		
		65	2294	165	1																		
		75	1169	175	3																		
		85	495																				
Comparative yearly lighting energy cost per 1000 lumens – <b>\$4.07</b> based on 3000 hrs. and <b>\$0.08</b> pwr KWH.																							
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.																							
						<b>Coefficients of Utilization</b>																	
						<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>																	
						Ceil	80			70			50			30			10				
						Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
						RCR																	
						0	90	90	90	90	87	87	87	87	82	82	82	77	77	77	73	73	73
						1	81	76	73	69	78	74	71	68	70	67	65	66	64	62	62	61	59
						2	72	65	60	55	70	63	58	54	60	55	52	56	53	50	53	50	48
						3	65	56	49	44	63	55	48	43	52	46	42	49	44	40	46	42	39
						4	59	49	42	36	57	48	41	36	45	39	34	42	37	33	40	36	32
						5	54	43	36	30	52	42	35	30	39	33	29	37	32	28	35	31	27
						6	49	38	31	25	47	37	30	25	35	29	24	33	28	24	31	27	23
						7	45	34	27	22	43	33	26	22	31	25	21	30	24	20	28	24	20
						8	42	31	24	19	40	30	23	19	28	22	18	27	22	18	26	21	17
						9	39	28	21	17	37	27	21	16	26	20	16	25	19	16	23	19	15
						10	36	25	19	15	35	25	19	15	24	18	14	23	17	14	22	17	14



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)

