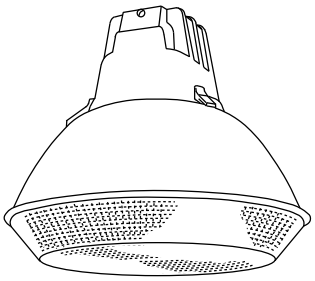
Day-Brite CFI by Signify

Industrial

LBN low bay

175-400W MH or HPS
175-400W PSMH



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

Day-Brite / CFI LBN low bay offers the high efficiency general purpose industrial lighting for mounting height requirements of 30' and below.

Ordering guide

Example: LBN400PMT-PSC-OR CRA

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical Assembly
LBN			–		
LBN	**175** 175[4] **200** 200[31] **250** 250 **320** 320[30] **350** 350[30] **400** 400	**M** Metal Halide **S** High Pressure Sodium **P** Pulse Start Metal Halide (PSC ballasts option must be specified to comply with EISA for 175W-400W)	**12** 120 **20** 208 **24** 240 **27** 277 **34** 347 **48** 480 **MT** 120/208 240/277 **TT** 120/277 347	**CUL** UL Listing to meet CSA standards **OR** Option required for metal halide and pulse start metal halide lamps (exclusionary "pink" socket) **PSC** Pulse Start CWA Ballast **Q** Quartz Standby **QEM** Quartz Emergency[40] **QTD** Quartz Time Delay **WDF** Wired Double Fuse[45] **WSF** Wired Single Fuse[46] **55** 55˚C Ambient	**CRA** Acrylic Lens **CRP** 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
- **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'
- **SCOP** Optical Retainer Chain
- **WGBRA/CRA** Wire Guard

(Refer to Section 18000 for additional accessories.)

Footnotes

[1] Not available in 480V.
[4] Not available in High Pressure Sodium.
[30] Pulse Start Metal Halide Only.
[31] Not available in standard Metal Halide.
[40] Requires 120 volt secondary power supply.
[45] Use with 208, 240, and 480 volt.
[46] Use with 120, 277, and 347 volt.

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.

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

LBN Low bay

175-400W MH or HPS, 175-400W PSMH

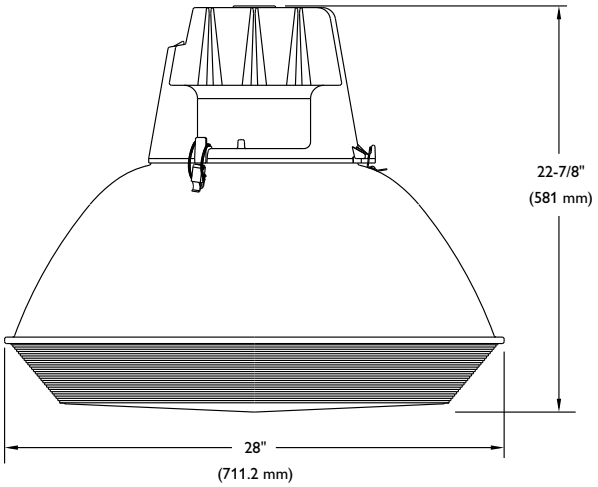
Application

- The Day-Brite / CFI LBN Low Bay Luminaire offers the high efficiency general purpose industrial lighting for mounting height requirements of 30' and below.

Construction/Finish

- UL 1598 Listed suitable for wet location and 40°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.
- 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.
- Corrosion resistant stainless steel latches.
- 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

HIGH PRESSURE SODIUM
CWA BALLAST INPUT WATTS
200 Watt–240 Watts
250 Watt–295 Watts
310 Watt–365 Watts
400 Watt–464 Watts
METAL HALIDE
CWA BALLAST INPUT WATTS
175 Watt–210 Watts
200 Watt–232 Watts
250 Watt–295 Watts
320 Watt–368 Watts
350 Watt–400 Watts
400 Watt–458 Watts

LBN Low bay

175-400W MH or HPS, 175-400W PSMH

Photometry

Catalog No.	LBN400WMH-CRA
Test No.	17309
Wide Spread S/MH	2.0
Lamp Type	400W MH
Lumens/Lamp	40,000
Ballast Factor	1.0
Input Watts	458

Comparative yearly lighting energy cost per 1000 lumens – **$3.29** based on 3000 hrs. and **$.08** pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	Avg. Candela	Angle	Avg. Candela
0	6192	95	635
5	6314	105	362
15	6906	115	227
25	7671	125	208
35	8469	135	14
45	8767	145	0
55	6855	155	0
65	4063	165	0
75	2131	175	0
85	1042		

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	6206	15.5	18.6
0-40	11529	28.8	34.6
0-60	24322	60.8	72.9
0-90	31838	79.6	95.4
0-180	33360	83.4	100.0

Average Brightness

Zone	End	45	Cross
45	20909	19898	21408
55	19546	18317	18377
65	14310	12634	14125
75	10180	8803	10171
85	8292	6576	8364

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

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	98	98	98	98	96	96	96	96	91	91	91	86	86	86	82	82	82
1	89	85	81	77	86	82	79	76	78	75	72	74	72	70	70	69	67
2	80	73	67	62	78	71	65	61	67	63	59	64	60	57	61	58	55
3	73	63	56	50	70	62	55	50	59	53	48	56	51	47	53	49	46
4	66	55	48	42	64	54	47	41	51	45	40	49	44	39	47	42	38
5	60	49	41	35	58	48	40	35	46	39	34	43	38	33	41	37	33
6	55	44	36	30	53	43	35	30	41	34	29	39	33	29	37	32	28
7	51	39	31	26	49	38	31	26	37	30	25	35	29	25	34	28	24
8	47	35	28	23	46	35	28	23	33	27	22	32	26	22	30	25	21
9	44	32	25	20	42	31	25	20	30	24	20	29	23	19	28	23	19
10	41	29	23	18	40	29	22	18	28	22	18	27	21	17	26	21	17

Hg

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

Signify

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