



# BAYLIGHTER™ LED

## HBN 100 (8FT) SERIES (2' AND 4' AVAILABLE)

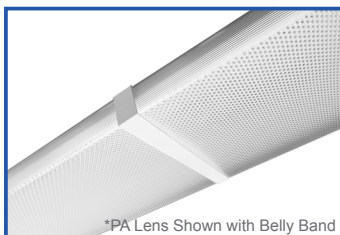
INDUSTRIAL HIGH BAY LUMINAIRE

DATE	
JOB	

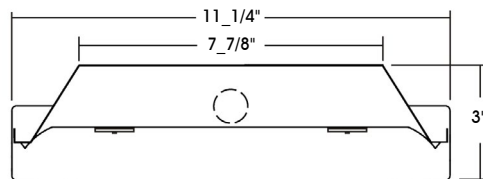
WWW.LALIGHTING.COM  
626-454-8300

### SURFACE / SUSPENSION MOUNTED HIGH BAY LED LUMINAIRE

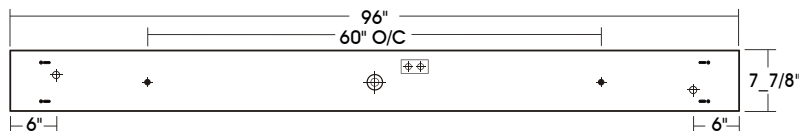
### DIMENSIONS



\*PA Lens Shown with Belly Band



- ⊕ ⊕ ACCESS PLATE    ⊕ 7/8" OFFSET K.O.    ⊕ 2" K.O.
- ◆ 11/16" STEM MTG. K.O.    ◆ V-HOOK



### APPLICATIONS

- Commercial, Industrial, Warehouse

### FEATURES

- 0-10V dimming driver standard (See DRIVER OPTIONS for other dimming types)
- Supports California Title 24 compliance
- Safety cables attached to LED gear tray

### OPTIONS

- High (HT) ambient temperature version available for extreme temperature ranges (See SYSTEM DATA for ranges)
- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available (See SENSOR OPTIONS for controls and sensors)
- Clear prismatic acrylic lens available (two 4' lenses per 8' fixture / belly band included)
- Emergency battery pack available (See BATTERY PACK OPTIONS for battery pack options)
- 11 ga. wire guard available (See ACCESSORIES for details)
- Cable suspension systems available (See ACCESSORIES for details)
- Ceiling spacers available (See ACCESSORIES for details)

### SPECIFICATIONS

#### CONSTRUCTION

- 22 ga. die formed cold rolled steel housing (20 ga. C.R.S. and 0.040 aluminum housing available as specified)

#### FINISH

- Baked white polyester finish (powder coated finish available) / minimum reflectance 86%
- End Plates - powder coated finish / painted after fabrication

#### OPTICAL

- No lens assembly standard

#### ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

#### LISTING

- UL USA and Canada listed / suitable for damp locations

#### WARRANTY

- 5-year limited warranty

#### INSTALLATION NOTE:

- Must be spaced minimum 1\_1/2" from ceiling when surface mounted (only for 32000 / 48000 lumens Systems)



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Revised 03-22-18

ORDERING INFORMATION

EXAMPLE: HBN100-48-8L-PA-BPL10-2DRDM-UNV-2/850HT

NORMAL AMBIENT TEMPERATURE ORDERING GUIDE

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	OPTICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
<b>HBN100</b>			<b>8L</b>			<b>1DRDM</b>	<b>UNV</b>	<b>2</b>	
<b>HBN100</b> Industrial High Bay LED Luminaire  (Normal Ambient Temperature Version)	16 Nom. 16000 Lumens 24 Nom. 24000 Lumens 32 Nom. 32000 Lumens  *Additional Lumen Packages Available	(Blank) Standard  HE High Efficacy (Only 24000 lumens System)	8L 8'	(Blank) No Lens Assembly  PA Clear Prismatic Acrylic	BPL10 Emergency Battery Pack, Constant 10W Nom. 1500 lm  See BATTERY PACK OPTIONS for Options  MSxx Motion Sensor  See SENSOR OPTIONS for Options  *Leave Blank if Not Specified  Additional Electrical Options	1DRDM 0-10V One Dimming Driver  See DRIVER OPTIONS for Options	UNV 120V-277V  See DRIVER OPTIONS for Options	2 Two LED Rows	830 80+CRI / 3000K Color Temp.  835 80+CRI / 3500K Color Temp.  840 80+CRI / 4000K Color Temp.  850 80+CRI / 5000K Color Temp.  *Additional Color Temp. Available

HIGH AMBIENT TEMPERATURE ORDERING GUIDE

SERIES	LED LUMEN PACKAGE	NOMINAL LENGTH	OPTICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT	AMBIENT TEMP.
<b>HBN100</b>		<b>8L</b>				<b>UNV</b>			<b>HT</b>
<b>HBN100</b> Industrial High Bay LED Luminaire  (HT - High Ambient Temperature Version)	12 Nom. 12000 Lumens 16 Nom. 16000 Lumens 48 Nom. 48000 Lumens  *Additional Lumen Packages Available	8L 8'	(Blank) No Lens Assembly  PA Clear Prismatic Acrylic	BPL10 Emergency Battery Pack, Constant 10W Nom. 1500 lm  See BATTERY PACK OPTIONS for Options  MSxx Motion Sensor  See SENSOR OPTIONS for Options  *Leave Blank if Not Specified  Additional Electrical Options	1DRDM 0-10V One Dimming Driver (Only 12000 / 16000 lumens Systems)  2DRDM 0-10V Two Dimming Drivers (Only 48000 lumens System)  See DRIVER OPTIONS for Options	UNV 120V-277V  See DRIVER OPTIONS for Options	1 One LED Row (Only 12000 / 16000 lumens Systems)  2 Two LED Rows (Only 48000 lumens System)	835 80+CRI / 3500K Color Temp.  840 80+CRI / 4000K Color Temp.  850 80+CRI / 5000K Color Temp.  *Additional Color Temp. Available	HT High Ambient Temp.

PERFORMANCE DATA

VIEW PHOTOMETRICS



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SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
16000 Lumens (Nominal)	HBN100-16-8L-1DRDM-UNV-2/850	17487 lm	103.7 W	168.7 lm/W	-20°C / 35°C	8-F32T8, 4-F54T5HO	*
	HBN100-16-8L-PA-1DRDM-UNV-2/850	15334 lm	103.7 W	147.9 lm/W			*
24000 Lumens (Nominal)	HBN100-24-8L-1DRDM-UNV-2/850	24471 lm	209.3 W	116.9 lm/W	-20°C / 35°C	12-F32T8, 6-F54T5HO	*
	HBN100-24-8L-PA-1DRDM-UNV-2/850	21458 lm	209.3 W	102.5 lm/W			*
32000 Lumens (Nominal)	HBN100-32-8L-1DRDM-UNV-2/850	34149 lm	215.2 W	158.7 lm/W	-20°C / 35°C	8-F54T5HO	*
	HBN100-32-8L-PA-1DRDM-UNV-2/850	29945 lm	215.2 W	139.2 lm/W			*

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
24000 Lumens (Nominal)	HBN100-24HE-8L-1DRDM-UNV-2/850	25942 lm	158.5 W	163.6 lm/W	-20°C / 35°C	12-F32T8, 6-F54T5HO	*
	HBN100-24HE-8L-PA-1DRDM-UNV-2/850	22748 lm	158.5 W	143.5 lm/W			*

LED LUMEN PACKAGE	HIGH AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
12000 Lumens (Nominal)	HBN100-12-8L-1DRDM-UNV-1/850HT	13165 lm	77.0 W	171.0 lm/W	-30°C / TBD	6-F32T8	*
	HBN100-12-8L-PA-1DRDM-UNV-1/850HT	11542 lm	77.0 W	149.9 lm/W			*
16000 Lumens (Nominal)	HBN100-16-8L-1DRDM-UNV-1/850HT	17485 lm	103.7 W	168.6 lm/W	-30°C / TBD	8-F32T8, 4-F54T5HO	*
	HBN100-16-8L-PA-1DRDM-UNV-1/850HT	15330 lm	103.7 W	147.9 lm/W			*
48000 Lumens (Nominal)	HBN100-48-8L-2DRDM-UNV-2/850HT	51882 lm	306.3 W	169.3 lm/W	-30°C / 50°C	12-F54T5HO	<a href="#">LA-T3213</a>
	HBN100-48-8L-PA-2DRDM-UNV-2/850HT	45486 lm	306.3 W	148.5 lm/W	-30°C / 45°C		<a href="#">LA-T3214</a>

**NOTE:**

System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.

This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.

Additional lumen packages and color temperatures available.



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**SENSOR OPTIONS**

**DRY AND DAMP LOCATIONS - HIGH / LOW AISLE MOUNTING APPLICATIONS - END MOUNT**

**MS - Motion Sensor**

- Turns light ON/OFF based on motion detection
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)
- 480V available

**MSSD - Motion Sensor – Step Dimming**

- Step-dims light to desired preset level (based on motion detection)
- Used in conjunction with 0-10V Ballast/Driver
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

**MSPC - Motion Sensor & Photocell**

- Holds lights OFF when sufficient daylight is present regardless of motion detection
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

**MSPCD(ADC) - Motion Sensor & PhotoCell Dimming (Auto Dim Control)**

- Variably dims output to desired preset footcandle level through photocell ON/OFF with motion detection
- Used in conjunction with 0-10V Ballast/Driver
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

**MSPCD(ANL) - Motion Sensor & Photocell Dimming (Auto Night Light)**

- Variably dims output to desired footcandles through photocell
- Low setting when unoccupied (full on with motion)
- For 24 hour use
- Used in conjunction with 0-10V Ballast/Driver
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

**MSPCDR - Motion Sensor & Photocell Dimming (Setup with Remote Control)**

- Field adjustable dimming sensor capabilities:
  - Step Dim (HIGH/LOW output)
  - Auto Dim Control (dim to desired footcandles, ON/OFF with motion)
  - Auto Night Light (dim to desired footcandles, LOW without motion)
- Used in conjunction with 0-10V dimming Ballast /Driver
- Holds lights OFF when sufficient daylight is present regardless of motion detection
- Adjustable ramp up and fade down time
- Fixture mounting height 8-40'
- Universal Voltage (120V-277V)
- Remote setup and adjustment with handheld wireless tool (sold separately)

**PCS - Photocell Sensor**

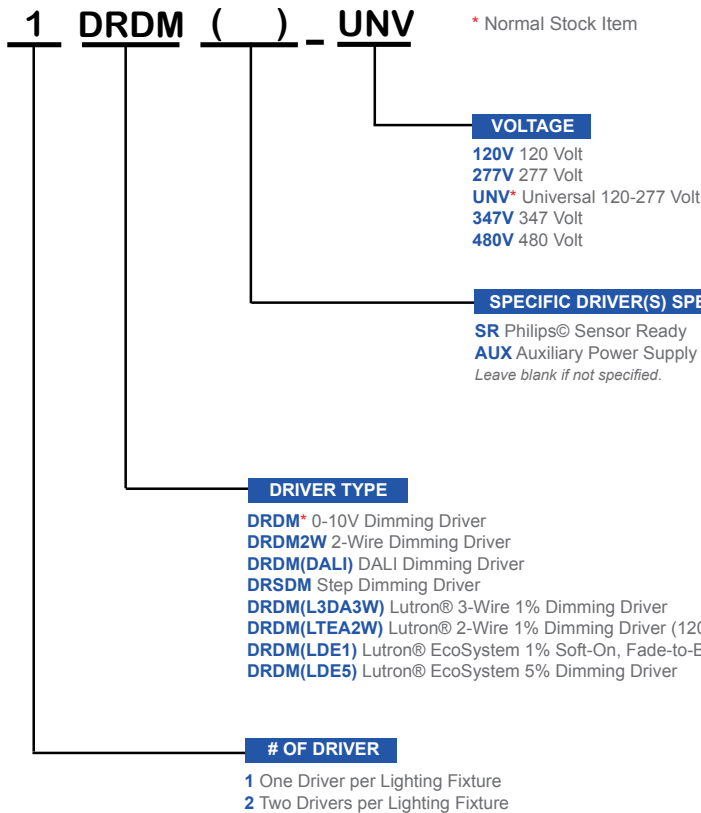
- Turns light ON/OFF based on light levels
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

**PCD - Photocell Dimming**

- Dims output to desired footcandles through photocell
- Used in conjunction with 0-10V Ballast/Driver
- Fixture mounting height 8-45'
- Universal Voltage (120V-277V)

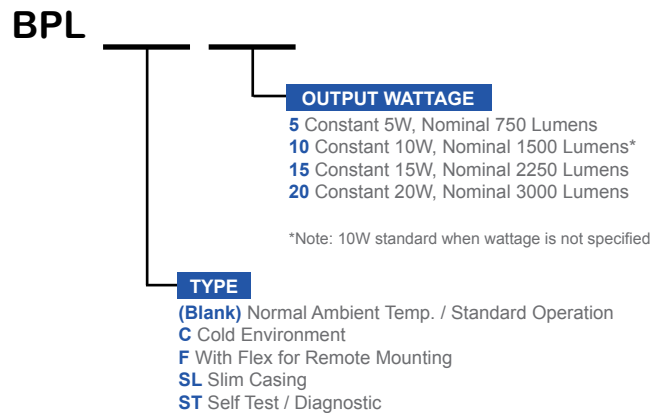
**DRIVER OPTIONS**

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.



**BATTERY PACK OPTIONS**

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**ACCESSORIES**

- V6**
- 6" Leg Height V-Hook
  - Two (2) per fixture



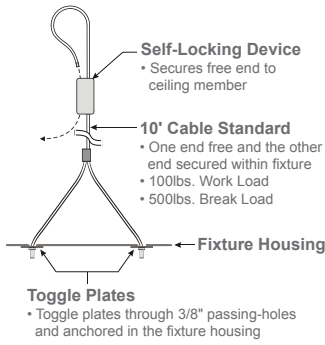
**WG11-HBN100**

- 11 ga. Wire Guard
- Chrome epoxy powder coated finish

Note: Wire guard (WG11-HBN100) is not available when lens assembly is specified. Two 4' Wire Guards per 8' fixture.

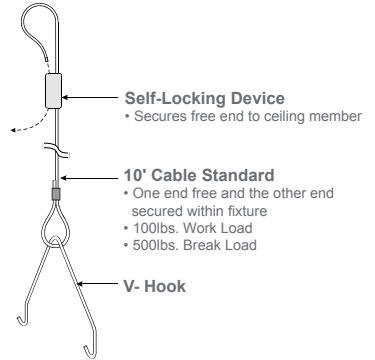
**YTCS10**

- Y-Toggle-End / Cable Suspension System



**V6CS10**

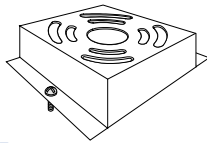
- V-Hook / Cable Suspension System
- Cable set with V6 hooks



**Ceiling Spacers**

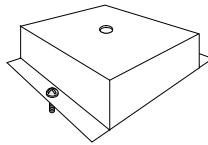
- Minimum one (1) of each per fixture
- Must drill own holes

Note: Ceiling spacers only required when 32000 / 36000 / 48000 lumens systems is specified.



**FIS-7**

Feed-in spacer mounts to junction box, spaces fixture 1\_1/2" from ceiling



**CS-3**

Closed spacer, spaces fixture 1\_1/2" from ceiling

**Cable Suspension System**

- See [Mechanical Options](#) for additional Cable Suspension Systems



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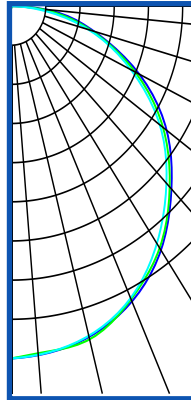
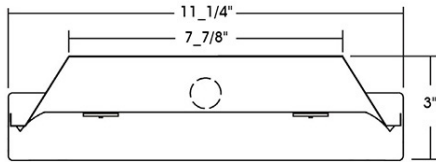
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Revised 03-22-18

**PHOTOMETRIC DATA - HBN100 SERIES**

**HBN100-48-8L-2DRDM-UNV-2/850HT**

TEST NO.=LA-T3213  
 LED TYPE=144 LED MODULE  
 NO. OF MODULE=8  
 SYSTEM WATT (W)=306.3  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE=C



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	16113	16113	16113
5	16023	15940	16009
15	15661	15778	15610
25	14903	14794	14736
35	13627	13510	13256
45	11829	11698	11458
55	9905	9673	9469
65	7375	7141	6891
75	4459	4319	4178
85	1743	1472	1106
90	68	26	13
95	0	2	1
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	12832	24.7	24.7
0-40	21297	41.0	41.0
0-60	39021	75.1	75.2
0-90	51869	99.8	99.9
90-120	11.6	.02	.02
90-150	12.0	.02	.02
90-180	12.2	.02	.02
0-180	51882	99.9	100.00

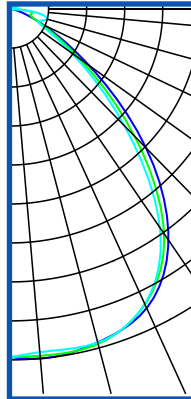
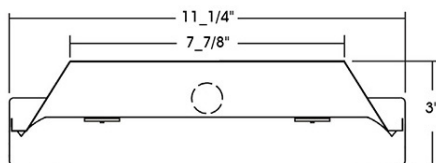
Luminaire Output= 51882 lumens  
 Luminaire Efficacy = 169.3 lm/W

**SPACING CRITERION**

ALONG	ACROSS
1.31	1.29

**HBN100-48-8L-PA-2DRDM-UNV-2/850HT**

TEST NO.=LA-T3214  
 LED TYPE=144 LED MODULE  
 NO. OF MODULE=8  
 SYSTEM WATT (W)=306.3  
 CRI ≥ 80  
 L70(Hrs.) ≥ 50,000  
 PHOTOMETRY TYPE=C



**CANDLEPOWER**

ANGLE	END	45	CROSS
0	20890	20890	20890
5	21059	20893	20675
15	20716	20811	20730
25	19808	19561	19532
35	16932	16463	16019
45	11784	10784	9902
55	5900	5174	4596
65	2216	2050	1899
75	622	1274	2334
85	198	1006	1087
90	46	79	66
95	46	199	206
115	15	274	578
125	14	99	248
135	13	66	111
145	12	44	77
155	12	27	41
165	6	12	16
175	2	3	2
180	9	9	9

**ZONAL LUMEN SUMMARY**

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	16959	32.6	37.2
0-40	27305	55.5	60.0
0-60	40356	77.7	88.7
0-90	44544	85.7	97.9
90-120	744.4	1.4	1.6
90-150	925.8	1.7	2.0
90-180	942.2	1.8	2.0
0-180	45486	87.5	100.00

Luminaire Output= 45486 lumens  
 Luminaire Efficacy = 148.5 lm/W

**SPACING CRITERION**

ALONG	ACROSS
1.29	1.24

