

# HIB Series

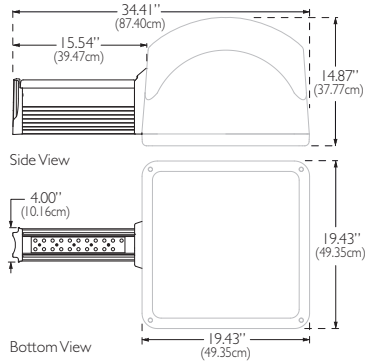
## HIBRED HID/LED Low-Level Ambient Lighting System



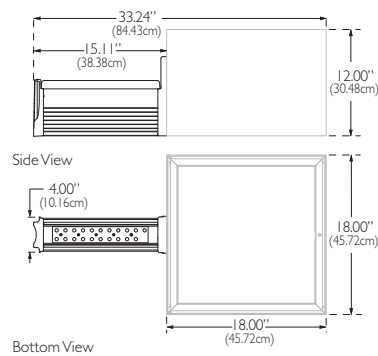
Type:	Job:	Approvals:							
Catalog Number:									Date: Page 1 of 6
<b>HIB - 21 -</b>	-	-	-	-	-	-	-	-	
Series	# of LEDs	LED Color	Fixture	Distribution	Voltage	Mounting	Options (Factory Installed)	Finish	Accessories (Field Installed)

### Overall Dimensions (For Reference Only. HIBRED Compatible HID luminaire must be ordered separately)

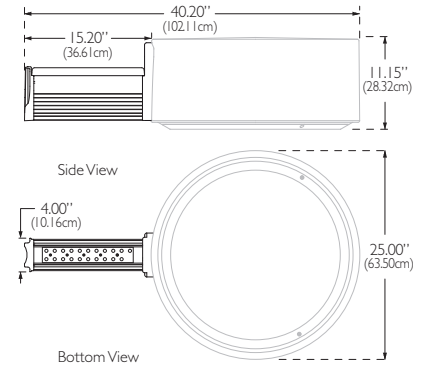
**HIB-21-EAL19** Shown with EAL19 fixture



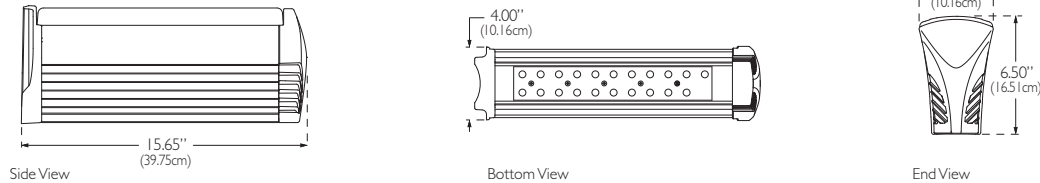
**HIB-21-AL3** Shown with AL3 fixture



**HIB-21-AL3R** Shown with AL3R fixture



**HIB-21-STND** Standalone Unit



## Specifications

### System Fixture Availability

The HIBRED System is compatible with the following Philips Wide-Lite luminaire series: EAL19, AL3, AL3R. Also available as a Standalone unit ("STND").

The Retrofit Switching Kit option ("RETRO"), and the HIBRED Operating System Control Box ("HOPS") accessory allows HIBRED to be used with any existing pole and site luminaire as a retrofit system. HIBRED can also be used with new construction.

### Energy Saving Benefits

The HIBRED System provides uniform low-level illumination during curfew hours, consuming 31 total watts compared to 1080 watts for a 1000W PSMH unit, up to 97% savings.

### Construction

Heavy duty aluminum heatsink, 6063-T5, optimally engineered. Suitable for wet locations.

### Driver

Power factor (>.90). Constant output voltage: 24V. Input voltage: 120-277. Temperature range: -30°C (-22°F) to 40°C (104°F). RoHS compliant.

### Rated Life

The HIBRED System provides a rated LED life of 60,000 hours @ 40° C. HID relamping intervals are extended based on HID/LED usage. (See page 4 for potential life expectancies.)

### LED and Board Array

Cree XPG (min. 122 lumens @ 350mA). Available in Neutral White. RoHS compliant. CRI (color rendering index): 72 +/- 3

Color temperature:

Neutral White: 4000K +/- 250K.

### Distribution

The HIBRED arm is intended to be specified with a distribution to correspond to the main HID luminaire's reflector orientation. The Type-V distribution provides non-directional illumination below the luminaire. For perimeter installations, depending on the system's pole mounting configuration, variations of a Type-III distribution allow the HIBRED system to correspond with the main HID luminaire's reflector orientation. Typically, a single (1@90) perimeter unit would utilize the Type-III at 0° distribution ("3L0"). Twin mounted perimeter units would typically require one each of the Type-III at 90° ("3L90") and Type-III at 270° ("3L270").

### Mounting

The HIBRED System (HID fixture with LED arm) and Standalone Unit are designed as pole mounted units. HIBRED is shipped with adapters to fit 3" - 5" O.D. round poles or square poles. Tenon adapter mounting may also be specified.

### Finish

Finish shall be polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability.

### Listings

ETL/cETL Listed luminaire, to the UL 1598 standard, suitable for Wet Locations. The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.

### Warranty / Terms and Conditions

Standard 5 Year Limited Warranty.

The current Philips Wide-Lite Warranty may be found at [www.wide-lite.com](http://www.wide-lite.com) (keyword: warranty) as well as current Standard Terms and Conditions of Sale (keyword: terms).

*All sales of items in this catalogue shall be subject to Philips Wide-Lite's Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of Philips Wide-Lite's Warranty and Standard Terms, please contact the factory for same prior to ordering.*

# HIB Series

## HIBRED HID/LED Low-Level Ambient Lighting System

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HIB-21-EAL19  
Shown with EAL19 fixture



HIB-21-AL3R  
Shown with AL3R fixture



HIB-21-AL3  
Shown with AL3 fixture



HIB-21-STND

Series	# of LEDs	LED Color	Fixture	Distribution <sup>2</sup>	Voltage	Mounting
<input checked="" type="checkbox"/> <b>HIB</b>	<input checked="" type="checkbox"/> <b>21</b>	<input type="checkbox"/> <b>NW</b> Neutral White (4000K +/- 250K)	<input type="checkbox"/> <b>EAL19'</b> <input type="checkbox"/> <b>AL3'</b> <input type="checkbox"/> <b>AL3R'</b> <input type="checkbox"/> <b>STND-(XX)'</b> Standalone Unit Specify required S/O cord length in feet. XX = 5, 10, 15, 20, 25, 30, 35, 40, 45, 50	<input type="checkbox"/> <b>3L0</b> Type-III @ 0° <input type="checkbox"/> <b>3L90</b> Type-III @ 90° <input type="checkbox"/> <b>3L270</b> Type-III @ 270° <input type="checkbox"/> <b>5L</b> Type-V	<input type="checkbox"/> <b>120</b> <input type="checkbox"/> <b>208</b> <input type="checkbox"/> <b>240</b> <input type="checkbox"/> <b>277</b>	<input type="checkbox"/> <b>SS</b> Surface Arm Mount (standard) Standard arm mount unit fits a 4"-5" O.D. round pole. Unit ships with adapters for mounting to 3"-3.9" O.D. round pole or square pole.  <input type="checkbox"/> <b>SPTA-(XXX)-HIB</b> Square Pole Tenon Adapter Specify mounting configuration XXX: 190 = 1 @ 90      490 = 4 @ 90 290 = 2 @ 90      2180 = 2 @ 180 390 = 3 @ 90  <input type="checkbox"/> <b>RPTA-(XXX)-HIB</b> Round Pole Tenon Adapter Specify mounting configuration XXX: 190 = 1 @ 90      490 = 4 @ 90 290 = 2 @ 90      2180 = 2 @ 180 390 = 3 @ 90      3120 = 3 @ 120

Options	Finish	Accessories (must be ordered separately)
<input type="checkbox"/> <b>RETRO<sup>3</sup></b> Retrofit Switching Kit Requires 'HOPS' control box accessory.	<input type="checkbox"/> <b>TSA</b> Textured Satin Aluminum <input type="checkbox"/> <b>TBK</b> Textured Black <input type="checkbox"/> <b>TDB</b> Textured Dark Bronze <input type="checkbox"/> <b>TWHT</b> Textured White <input type="checkbox"/> <b>TGR</b> Textured Gray <input type="checkbox"/> <b>TGN</b> Textured Green	<input type="checkbox"/> <b>RAL(*)</b> Specify Custom RAL color number  <input type="checkbox"/> <b>HOPS<sup>3</sup></b> HIBRED Operating System Control Box Required with 'RETRO' option. <input type="checkbox"/> <b>HSS0-HIB</b> House Side Shield For Type-III @ 0° <input type="checkbox"/> <b>HSS90-HIB</b> House Side Shield For Type-III @ 90° <input type="checkbox"/> <b>HSS270-HIB</b> House Side Shield For Type-III @ 270°

### Notes:

- 1) Specifying a luminaire with a HIBRED Arm ensures that HIBRED wiring will be compatible with that fixture. The fixture will not be included. If 'EAL19'/'AL3'/'AL3R' option is selected, the corresponding luminaire must be ordered separately as required. Mounting will be specified on HIB spec sheet.

\*Standalone Unit ('STND-(XX)') can be ordered independently.

- 2) See distribution diagrams for orientation details.

- 3) 'RETRO' option requires the use of 'HOPS' control box accessory. Please see 'HOPS' spec sheet WLSP0316 for details.

### HIBRED System:

HIB-21-EAL19  
HIB-21-AL3  
HIB-21-AL3R

### HID Luminaire (to be ordered separately):

EAL19  
AL3  
AL3R

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Bulletin No. WLSP0278D0312

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# HIB Series

## HIBRED HID/LED Low-Level Ambient Lighting System

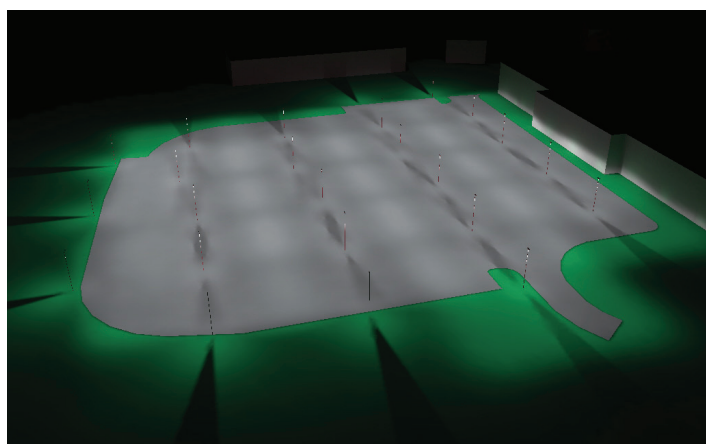
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Technical Data (Rated Life 60,000 hrs, Neutral White CCT 4000K +/- 250K)

	Type-III ('3L0')	Type-V ('5L')
Total System Watts	27W	27W
Initial Lumens @ 25°C Ambient	1390	1815
Lumens per watt @ 25°C Ambient	51	67

### Average Size Parking Lot Analysis (minimum 35 fixtures)

	HIB-21-AL3-3L0 @ 18' M.H.	AL3P-150-3F/5F	HIB-21-AL3-3L0 @ 25' M.H.	AL3P-400-3F/5F
Average FC Level	0.54 FC	6.42 FC	0.51 FC	6.1 FC
Maximum FC	1.02 FC	13.0 FC	0.73 FC	9.31 FC
Minimum FC	0.17 FC	1.15 FC	0.20 FC	1.58 FC
Max/Min Uniformity	6.0 : 1	11.3 : 1	3.6 : 1	5.9 : 1



\*HIBRED Layout 25' mounting height, 35 fixture total

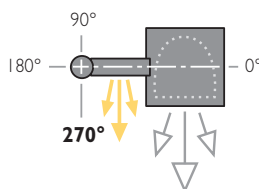
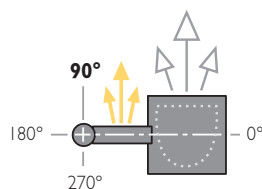
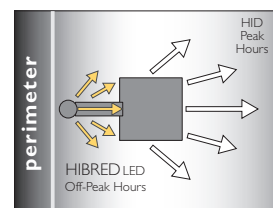
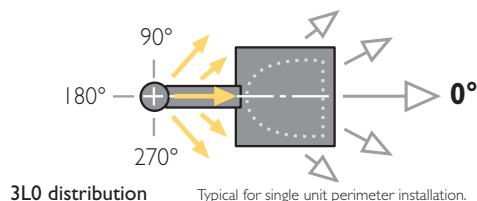
HIBRED  
LED  
Off-Peak  
Hours



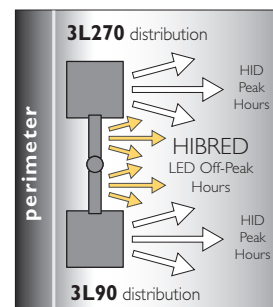
EAL (shown)  
HID  
Peak  
Hours



### Type III Distribution Diagrams (HIBRED unit and pole shown in Plan View [viewed from above])



Twin perimeter units typically require one 3L90 and one 3L270 optic.



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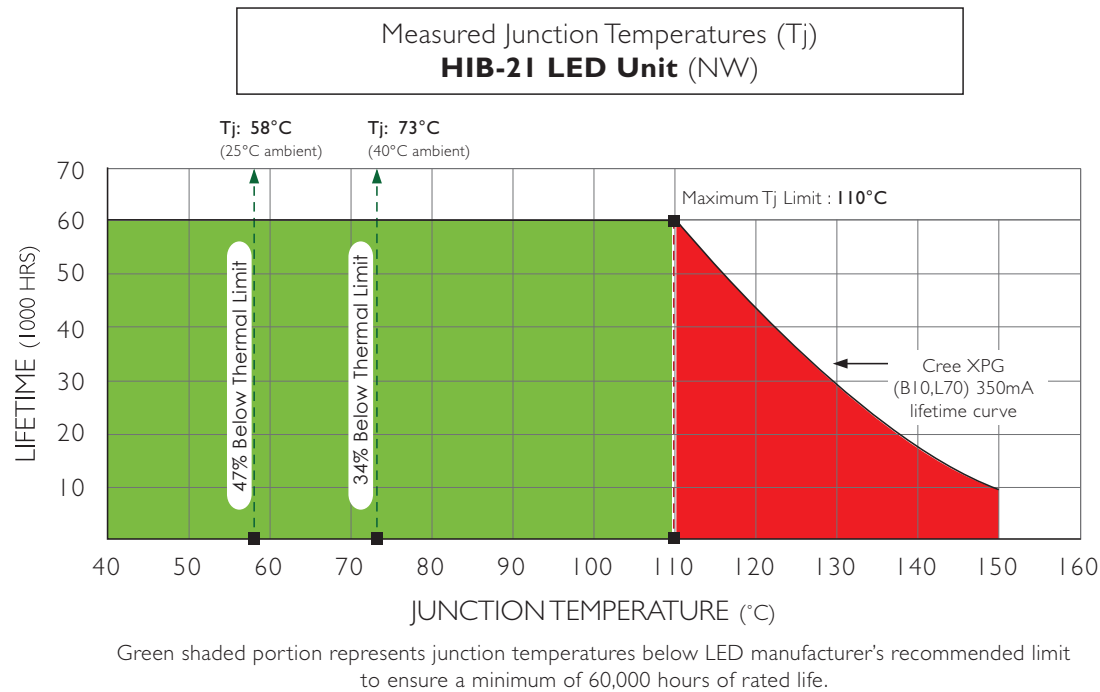
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# HIB Series

## HIBRED HID/LED Low-Level Ambient Lighting System

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Potential B10, L70 Life Expectancy Table Above the 60,000 Rated LED Life at Multiple Ambient Temperatures  
**HIB-21 LED Unit (NW)**

Note: LED rated life per the B10, L70 curve is 60,000 hrs. The table below showing potential B10, L70 LED life expectancy is based on HIBRED thermal management, actual junction temperature (Tj), current flow, lumen maintenance and LED catastrophic failure characteristics.

**HIB-21 LED Unit (NW)**

AVERAGE OUTDOOR AMBIENT TEMP	FIXTURE JUNCTION TEMP (Tj)	POTENTIAL LED LIFE EXPECTANCY B10, L70 (hrs)	FIXTURE EFFICACY (lumens / watt)	POTENTIAL LED LIFE EXPECTANCY @ 10 HRS/DAY (yrs)
-30°C / -22°F	3°C	193,000	68	22.0
-20°C / -4°F	13°C	186,000	67	21.2
-10°C / 14°F	23°C	179,000	67	20.4
0°C / 32°F	33°C	172,000	66	19.6
10°C / 50°F	43°C	165,000	66	18.8
25°C / 77°F	58°C	153,000	66	17.5
30°C / 86°F	63°C	152,500	64	17.4
40°C / 104°F	73°C	144,500	63	16.5

Table Rev. B.  
Expires 12/31/10

# HIB Series

## HIBRED HID/LED Low-Level Ambient Lighting System

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### HIBRED Option details (Factory Installed)

#### RETRO Retrofit Switching Kit

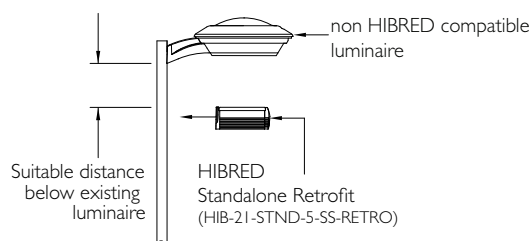
Eliminates need to pull extra wiring

Specify mount height for factory supplied cord to make connections at pole base.

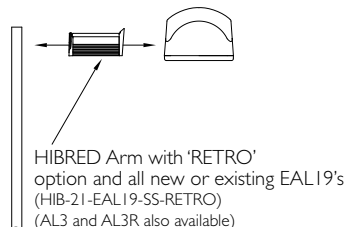
Available Voltages: 120, 208, 240, 277

Requires HOPS accessory, see HOPS spec sheet WLSP0316 for details.

#### HIBRED Standalone retrofitted to non-compatible Site Luminaire

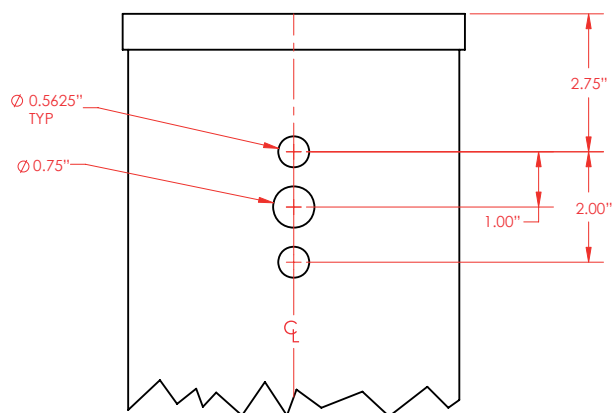


#### HIBRED retrofitted to compatible Philips Wide-Lite Luminaire



### Drill Template

#### Drill Template No. 3 (NTS)



### HIBRED Accessory details (Shipped Separately)

#### HOPS HIBRED Operating System Control Box

Required with RETRO option.

HOPS requires voltage of 120 or 277.

See HOPS spec sheet WLSP0316 for details.



#### HSS House Side Shield

External House Side Shield

Only available with the following distribution options: 3L0, 3L90, 3L270

# HIB Series

## HIBRED HID/LED Low-Level Ambient Lighting System

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### EPA Data (Effective Projected Area in Ft<sup>2</sup>)

EPA values of standard HID fixtures are affected with use of the HIBRED arm.

Existing Pole wind loading should be recalculated by specifier or installing contractor on retrofit jobs using the data below:

#### HIB-21-AL3

	10" deep flat glass	10" deep sag glass	12" deep flat glass	12" deep sag glass
1 @ 90°	2.10	2.30	2.40	2.50
2 @ 90°	4.20	4.60	4.80	5.00
3 @ 90°	5.20	5.80	5.80	6.40
4 @ 90°	5.40	6.00	6.00	6.70
2 @ 180°	4.20	4.60	4.80	5.00
3 @ 120°	5.20	5.80	5.80	6.40

#### HIB-21- EAL19

	19" housing flat glass	19" housing sag glass
1 @ 90°	2.00	2.85
2 @ 90°	3.90	5.51
3 @ 90°	5.90	7.37
4 @ 90°	6.28	6.31
2 @ 180°	4.00	5.07
3 @ 120°	6.00	7.41

#### HIB-21-AL3R

	1	2	3	4
Flat glass	1.50	2.90	3.40	3.90
Sag glass	1.60	3.20	3.90	4.30

#### HIB-21- STND

	HIBRED Standalone
1 @ 90°	0.65
3 @ 90°	1.38
4 @ 90°	1.40
2 @ 180°	1.30

Notes:



ISO 9001  
Certified



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