

DESCRIPTION

TRACE*LITE's newest LED luminaire is our most versatile high wattage unit yet. The TLED-FHB series is a combination floodlight and high bay that can be utilized to satisfy multiple application requirements. The TLED-FHB is equipped with a state of the art LED light engine that offers optional 0-10V dimming with excellent efficacies and lumen outputs. The superior thermal management maximizes the reliability and longevity that SSL systems can provide. The unique mounting configurations allows the TLED-FHB to be used as a high power floodlight when mounted using a adjustable steel yoke, or as a high bay when hung from the steel hook. With efficacies as high as 88 LPW and a CRI of ≥ 70 , the performance of the TLED-FHB allows it to meet or exceed the efficacy requirements for various rebate programs across the country. State of the art technology combined with application versatility and design consistency makes our new TLED-FHB an extremely versatile high wattage luminaire.

SPECIFICATIONS

Construction:

The TLED-FHB is a precision designed luminaire that takes advantage of the best properties of three main materials: the mounting bracketry is constructed of high strength steel; the heat dissipation fins are constructed of lightweight aluminum; and the LED board itself is mounted directly to an array of hollow copper tubes that terminate throughout the aluminum heat sink assembly for maximum heat dissipation. The TLED-FHB has a sealed reflector with an e-PTFE breathable membrane filter that allows the enclosure to expand and contract without drawing in moisture or dust that would depreciate the lumen output of the luminaire. The inner reflector is mirrored aluminum and is available in 25°, 60°, or 90° beam angles. The unique construction of the TLED-FHB maximizes heat dissipation and therefore increases the longevity, reliability, and performance.

Optics:

Our TLED-FHB series luminaire delivers exceptional light quality, with correlated color temperatures available from 3000K to 5700K and a CRI of ≥ 70 . The TLED-FHB LED light engines are controlled with precision, specular reflectors to distribute light in 25°, 60°, or 90° beam angles that can produce the ideal distribution for either floodlighting or high bays that maximizes fixture spacing while still delivering light where it is needed in the most efficient way possible. Producing up to 44,300 delivered lumens, the TLED-FHB has a conservative L70 of 50,000 hours.

Electrical:

The TLED-FHB is powered by a constant current, high efficiency Class 2 LED driver with active power factor correction (0.99 typical). The driver has an IP67 rating for all around protection against over-voltage, over-temperature, short circuit conditions, and lightning. The TLED-FHB driver has a standard voltage sensing input of 120 ~ 277VAC 50/60Hz. It has a Class A EMI rating, complies with UL8750 safety regulations and with ANSI/IEEE C62.41 Class A Operation. The TLED-FHB is suitable for operation in -13°F to 122°F (-25°C to 50°C) ambient conditions.

Thermal Management:

Our LED module and driver are mounted directly to the purpose designed housing which functions as a dedicated, LEDLITE^{logic} thermal heat sink. The heat sink is unique and has been sized to maximize the thermal dissipation of the luminaire. This configuration optimizes the heat removal for the LEDs and the driver, which makes possible the high efficacy, lumen output and longevity of the TLED-FHB.

Environmentally Friendly Design:

TLED-FHB luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED-FHB-200 consumes only 200 watts, but the light output can be conservatively compared to a 400W HID luminaire of similar design. The TLED-FHB-500 can be compared to a 1000W HID luminaire. The TLED-FHB is RoHS (Restriction of Hazardous Substances) compliant and provides a significant reduction in KW load and carbon emissions.

Installation:

The TLED-FHB series luminaire features a bracketry design that can be easily mounted to any surface, and is readily wired to a J-box. The floodlight bracket has 13 positive stops every 10° so it stays exactly where it is aimed. The high bay loop allows the TLED-FHB to be mounted like a standard high bay.

Testing & Compliance:

The reliability and performance of the TLED-FHB is evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, or L70, a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, using LM-80 in-situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards.

Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____



Specs at a Glance*			
Wattage (w)	120	200	500
Lumens (lm)	10,290	16,080	44,300
Efficacy (LPW)	86	81	88
Equivalency	Traditional 1000w HID (TLED-FHB-500)		
CCT	3000K - 5000K, 5700K (Standard)		
CRI	≥ 70		
Optics	25°, 60°, 90° Beam Angles		
Input Voltage	120~277 Voltage Sensing		
Warranty	5 Years		
Certifications	Suitable for Wet Locations, IP65, RoHS		
Ambient Temp	-25°C to 50°C (-13°F to 122°F)		

* 5000K CCT tested

Warranty:

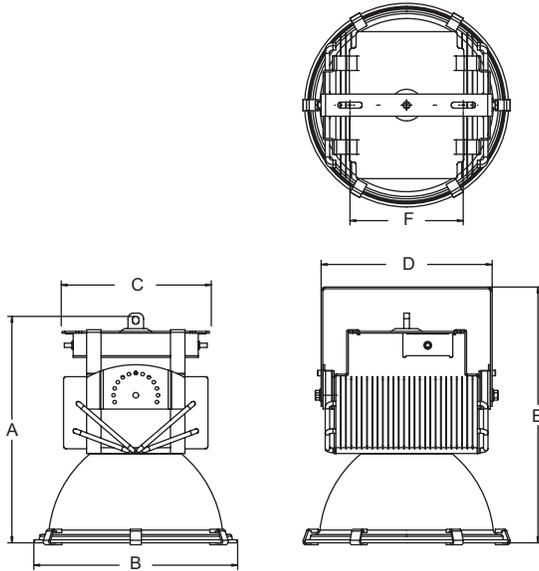
Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

Fixture Performance

Part Number	Total System Watts	Initial Lumens	Lumens Per Watt (LPW)	L70 Hours @ 25°C
TLED-FHB-120	120W	10290 ± 10%	86	50,000
TLED-FHB-200	200W	16080 ± 10%	81	50,000
TLED-FHB-500	500W	40000 ± 10%	88	50,000

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

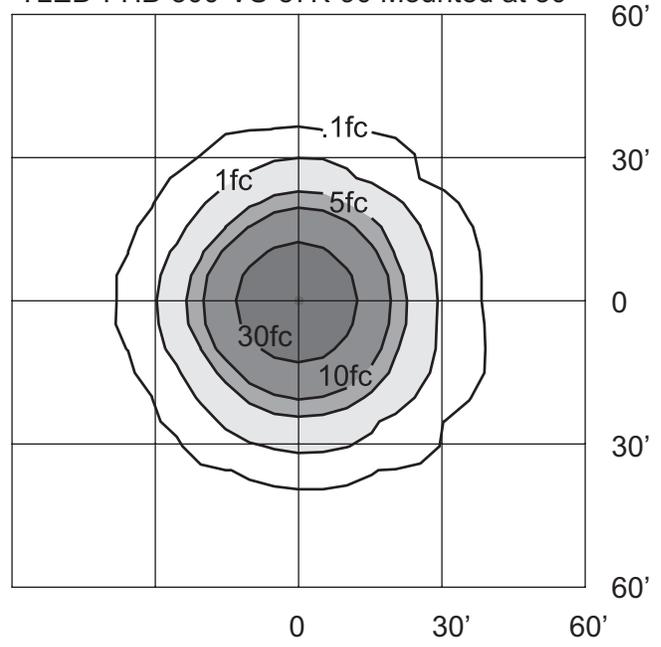
Dimensions



Model	A	B	C	D	E	F
TLED-FHB-120	16.125"	14.5"	10.25"	10.5"	18.375"	6.875"
TLED-FHB-200	16.125"	14.5"	10.25"	10.5"	18.375"	6.875"
TLED-FHB-500	17.625"	14.5"	12.625"	15"	19"	8"

Sample Photometrics

TLED-FHB-500-VS-57K-90 Mounted at 30'



Approximate Weight: 18 to 29 lbs.

Ordering Information

Example: TLED-FHB-200-VS-57K-90

Series	Nominal Wattage	Input Voltage	CCT ¹	Finish	Options (Factory Installed)
TLED-FHB	120 = 120 Watt	VS = 120~277VAC Voltage Sensing	57K = 5700K (std.)	BL = Black	DIM = 0 - 10V Dimming
	200 = 200 Watt		30K = 3000K	SLV = Silver	25 = 25° Beam Angle
	500 = 500 Watt		40K = 4000K		60 = 60° Beam Angle
Notes			50K = 5000K		90 = 90° Beam Angle

¹ Standard 5700K, consult factory for other CCT available