

Product Code Prepared By: Date: Project:



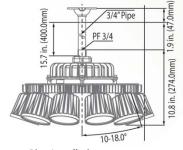
## **SPECIFICATIONS**

Name	LED GYMNASIUM SERIES		
Product Code	LLP-PS-MB-HB-160W		
Equivalent Source	Up to 500W Metal Halide		
L70 lumen depreciation design criteria =	High Bay: 50,000 hours Rating is based on open-air fixture application.		
Housing	Die Cast Aluminum/ Tempered Glass Globe (3T)		
Installation Type	S-Hook or Pendant Mount		
Beam Spread	60°		
Operating Temperature	-30°C to +60°C		
IP Rating	IP65		
Voltage	100VAC-277VAC		
Weight	24.2 lb., 11.0Kg		
Diameter (Chain) Length (Chain) Diameter (Pipe) Length (Pipe)	Ø 20.9"(532.0mm) 10.8"(274.0mm) Ø 20.9"(532.0mm) 10.9"(279.1mm)		
Length (Chain) Diameter (Pipe)	10.8"(274.0mm) Ø 20.9"(532.0mm)		
Length (Chain) Diameter (Pipe) Length (Pipe)	10.8"(274.0mm) Ø 20.9"(532.0mm) 10.9"(279.1mm)		
Length (Chain) Diameter (Pipe) Length (Pipe) Power Factor	10.8"(274.0mm) Ø 20.9"(532.0mm) 10.9"(279.1mm) ≥0.98		
Length (Chain) Diameter (Pipe) Length (Pipe) Power Factor Lumens/ Watt (Im/W)	10.8"(274.0mm) Ø 20.9"(532.0mm) 10.9"(279.1mm) ≥0.98		
Length (Chain) Diameter (Pipe) Length (Pipe) Power Factor Lumens/ Watt (Im/W) Luminous Flux (Im) Color Rendering Index	10.8"(274.0mm) Ø 20.9"(532.0mm) 10.9"(279.1mm) ≥0.98 98 15,680lm		

# HIGH BAY LED POLESTAR SERIES **GYMNASIUM APPLICATION** LLP-PS-MB-HB-160W

### **BENEFITS**

- Applied Narrow Multi Beam Forming Technology, maximizing the saving on energy.
- No glare.
- High Bay reliably produces clear, bright illumination that reduces operational and maintenance costs.
- Open rated for maximum air flow.
- Group up to 30 within a 100 meter range allowing you to simultaneously dim or increase the brightness of the lighting in your desired zones.
- Junction temperature of LED light source is kept below 149°F (65°C). (Theoretically, in order for LED to get life span over 50,000 hours the junction temperature should be below 176°F (80°C)
- Suitable for wet locations.
- 160 Watts 70% more efficient than comparable 500 watt metal halide
- Maintenance free operation lasts up to 16 times longer than metal halide lighting.



Pipe Installation

#### ORDERING INFORMATION \\ HIGH BAY LED POLESTAR SERIES

PRODUCT CODE: LLP-PS-MB-HB-160W

Family	Product	Wattage	Color (CCT)		Distribution		Voltage <sup>4</sup>		Base
LLP	PS-MB-HB	160W	5000K-CW	Cool White	Beam Spread	60°	100-277	Volt	H (S-HOOK) P (PENDANT Mount)











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High Bay LED Polestar Series continued......

The LED Light and Power GYMNASIUM SERIES high bay lighting system will produce significantly better quality and quantity of light in your school gym. These LED fixtures have been manufactured implementing lens and reflector technologies that produce an excellent light pattern. In most situations our LED gym lighting will produce up to three times the quantity of light when compared to old technology lighting. The diecast powder coated housing is extremely tough and can take a direct hit from a basketball and suffer zero damage. Other LED benefits include instant on to full brightness as opposed to the "warm up period" required for older technologies. Another benefit of LEDs is silent operation versus the buzz generated from HID or fluorescent ballasts.

Most high quality LEDs will maintain about 90% of their original brightness through 40,000 hours or more. Most HID lamps lose 50% of their original brightness less than halfway through the estimated relatively short life. Most 500 watt HID lamps have an estimated rated life equal to 16 to 20 thousand hours. Even though the utility bill is still charging for the 500 watt load from old technology, the customer is only receiving half the light after 8 to 10 thousand hours. Stated another way; would a customer be ok with half of the old HID lamps burning out half way through the estimated life of 16 to 20 thousand hours. High quality LEDs are extremely efficient, operate quietly and provide excellent quality of light.

GYMNASIUM SERIES LED LIGHTING  Note: The data in this box remains constant for each gymnasium package listed below			
	HID	LED	
Total Connected Wattage (500 x 25) (160X25)	12,500	4,000	
Estimated Annual Average Operating Costs (160 x 25) Kwh 19.4c	\$10,606	\$ 3,394	

	GYMNASIUM PACKAGE #1				
Packa	Package includes: LED Fixture + Head Nodes + Receiving Nodes + Light Lifters				
Quantity	uantity Description				
25	160 watt LED Polestar Gymnasium series fixture	\$11,800.00			
1	Head Nodes smart 3G	\$ 2,250.00			
25	25 Node – IP address (receiving) \$ 3,750.00				
25	25 Light Lifters \$10,000.00				
1	1 On-site Supervision \$ 1,200.00				
TOTAL \$29,000.00		\$29,000.00			
5 year rent to own over 60 months		\$ 588.00			
	31 Pay back in months utilizing 100% load				
	38% Internal Rate of Return at 100% load				
	GYMNASIUM PACKAGE #2				
	Package includes: LED Fixture only without controls				
Quantity	Description	Price			
25	160 watt LED Polestar Gymnasium series fixture	\$11,800.00			
	TOTAL	\$11,800.00			
	5 year rent to own over 60 months	\$ 248.00			
22 Pay back in months utilizing 100% load					

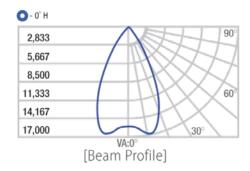


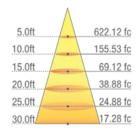
53% Internal Rate of Return at 100% load

NMBF (Narrow Multi Beam Forming) Technology

#### Caution:

- Turn power off before inspection, installation, or removal.
- Suitable for wet locations.
- Do not open no user serviceable parts in the inside.



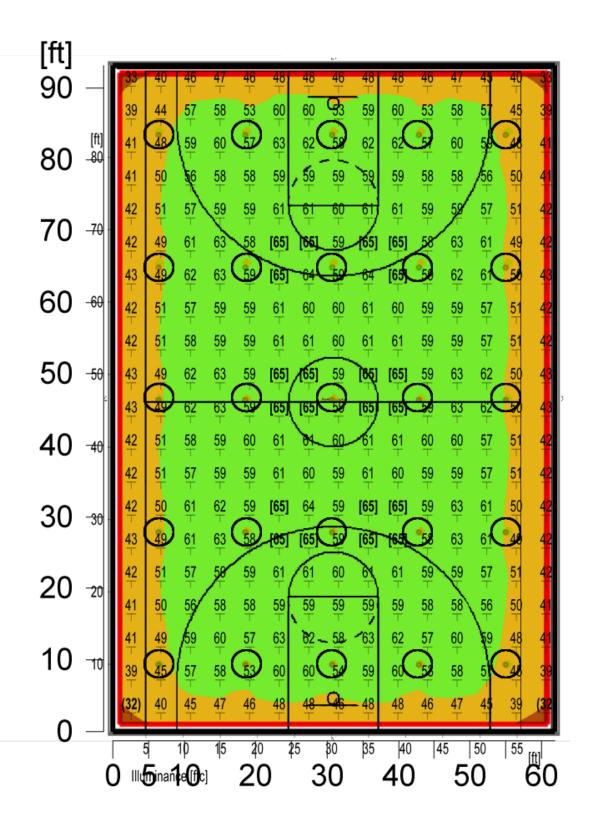


[Illumination]



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High Bay LED Polestar Series continued......





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High Bay LED Polestar Series continued......



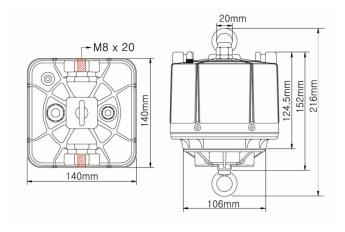
# **SPECIFICATIONS**

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Product Code	LLP-RRL-CSI-12
Housing	Die Cast Aluminum/ Tempered
	Glass Globe (3T)
Installation Type	Cable Connection
Unit Net Weight	6.83lbs. (3.1kgs)
Loading Weight	6.61-26.46lbs. (3-12Kgs)
Lowering Height	49.21' (15M)
Number of Wire	1
Wire O.D. (SUS304 7x19)	1.4MM
Lamp Circuits Capacity	16A
Number of Contacts	2
IP Rating	54
Type of Motor	DC
Warranty	3-Year Warranty

# LIGHT LIFTER GYMNASIUM APPLICATION LLP-RRL-CSI-12

# **BENEFITS**

- Eliminates the need to bring lifts, scaffolding and ladders to service high bay light fixtures.
- Reduces maintenance costs.
- Reduces risks associated with maintenance personnel being on tall ladders, scaffolding or lifts.
- Allows routine maintenance to be performed by multiple employees.
- Designed for very various loads.
- The remote controlled lighting lifter prevents electrical shock during changing & cleaning as the electricity is automatically cut off during maintenance
- Reduces risk of injury.



ORDERING INFORMATION 📏 LIGHT LIFTER

PRODUCT CODE: LLP-RRL-CSI-12

Family Product Size
LLP RRL-CSI 12





