



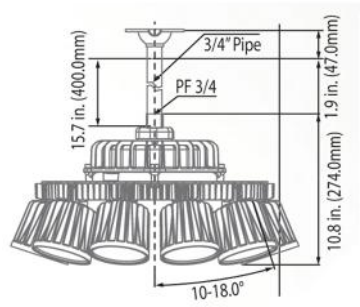
## LLP HIGH BAY LED POLESTAR AQUARIUM SERIES LLP-PS-MB-HB-160W

### FEATURES

Name	LED POLESTAR MULTI BEAM HIGH BAY
Product Code	LLP-PS-MB-HB-160W
Equivalent Source	Up to 600W Metal Halide
L70 lumen depreciation design criteria =	High Bay: 50,000 hours Rating is based on open-air fixture application.
Housing	Powder Coated Die Cast Aluminum/ Tempered Glass Globe (3T)
Installation Type	S-Hook or Pendant Mount
Beam Spread	60° symmetric
Operating Temperature	-30°C to +60°C
IP Rating	IP65
Voltage	100VAC-277VAC
Weight	24.2 lb., 11.0Kg
Diameter (Chain)	Ø 20.9" (532.0mm)
Length (Chain)	10.8" (274.0mm)
Diameter (Pipe)	Ø 20.9" (532.0mm)
Length (Pipe)	10.9" (279.1mm)
Power Factor	≥0.98
Lumens/ Watt (lm/W)	98
Luminous Flux (lm)	15,680lm
Color Rendering Index (CRI)	CRI 80
Warranty	5-Year Warranty

### 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 300 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))
- The air flows from cold to hot. The LED Polestar Aquarium Series maximizes this natural convection at the level of fixture design utilizing optimal mechanical structure for well positioned LED module.
- Suitable for wet locations.
- 160 Watts – 83% more efficient than comparable 600 watt metal halide lamps.
- Maintenance free operation lasts up to 16 times longer than metal halide lighting.



Pipe Installation

### ORDERING INFORMATION \ \ LLP POLESTAR AQUARIUM SERIES HIGH BAY

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	ADJ Adjustable	100-277 Volt	H (S-HOOK) P (PENDANT Mount)



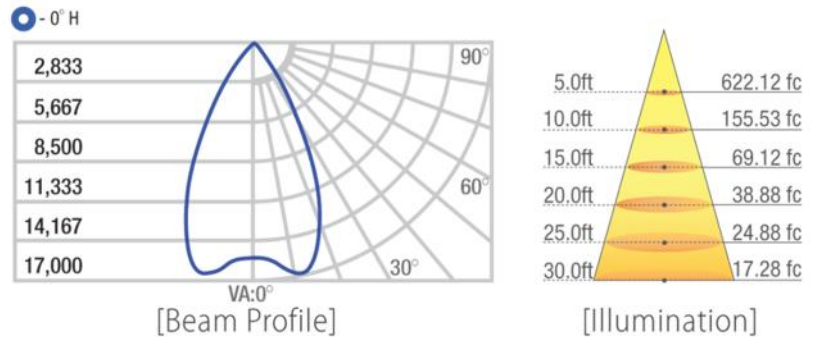
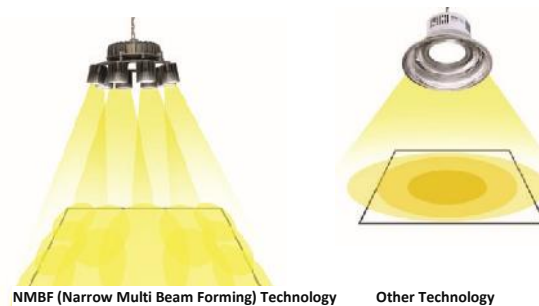
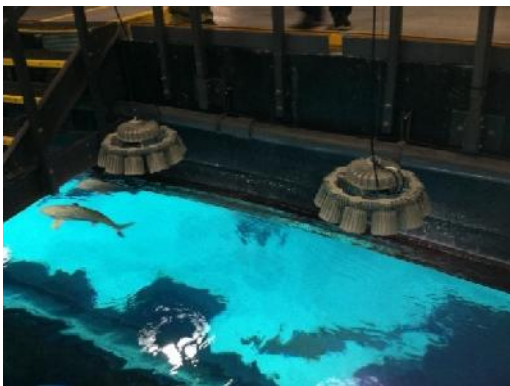


## SALTWATER AQUARIUM EXPERIENCE

A saltwater environment can be very tough on most light fixtures, connectors and controls. Through research and experience LED Light and Power has created an aquarium lighting and control package that will out survive any other saltwater lighting and control installation that we have encountered to date. We worked with an expert with degrees in marine biology and business, and completed our first installation in 2013. The expert had years of saltwater aquarium management experience. This installation included 36 of our 160 watt LED fixtures. For Two years we have studied this installation and have made a few minor improvements during that time. The powder coated aluminum housing, the potted seamless power cables, and weather proof housing for the electrical supply source has eliminated any signs of wear. Since our controls send programming (ON/OFF – dimming) via the electric lines that feed power to the LED fixtures, there are no time clocks or connections that are subject to corrosion. Through customization during final assembly we can provide customers with the ultimate aquarium LED lighting and control solution. The result of which is reduced energy costs, dramatically improved lighting, and significant reductions in maintenance procedures.

The LED POLESTAR AQUARIUM SERIES has high system efficiency. These LED fixtures have been manufactured implementing lens and reflector technology to generate a desired light pattern.

These LED fixtures not only create a highly desirable light pattern but also control light pollution. The control of the light pattern efficiently utilizes the energy being sent to each fixture. LED light contains less infrared (heat) than incandescent lamps, eliminating risk of damage from a rise in temperature. LEDs also reduce deterioration or discoloration from ultraviolet (UV) rays, because they have limited emissions in the UV spectrum. Other LED benefits include instant full brightness (as opposed to “warming up”) and silent operation (versus the buzz of ballasts, e.g.). Additionally, at the end of their long life cycle, LEDs begin to fade versus “burning out,” which provides ample time for change out.



### Cautions

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