

HIGH BAY LIGHTING FIXTURE



Figure 1



Figure 2

With their exceptional lifespan, lumen output, and premium efficacy, **Lumingen Technologies’ SLD-HB-XXXX LED Luminaire Series** is the ideal solution to replace conventional lighting sources in any industrial or commercial facility. This product features an **IP67** ingress protection rating and special lensing materials that qualifies it for many interior and exterior applications, such as heavy industrial settings, gyms, convention centers, recreation centers, food preparation facilities, or warehouses.

Designed and developed in North America to fit the requirements of its specific market, this fixture is incredibly light-weight, yet more powerful and robust than any other luminaire in the marketplace. This highly efficient, cost-effective luminaire presents the best possible solution for either new construction projects or lighting retrofits. There are a wide range of light levels and beam types available for this luminaire. Thus, whatever the application or lighting problem, Lumingen’s SLD-HB-XXXX Series will always deliver a well-tailored lighting solution that fits your specific needs and desires.

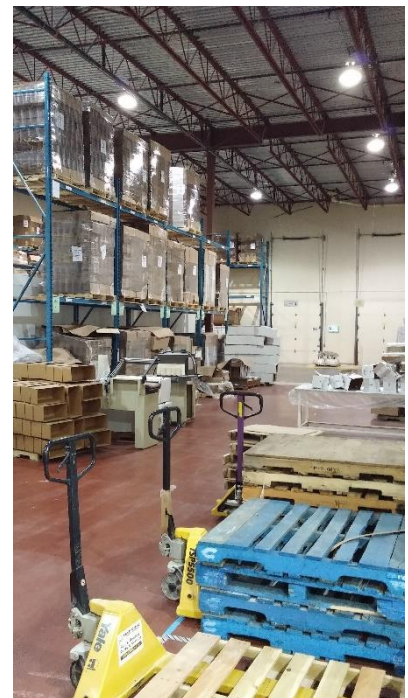


Figure 3

FEATURE

- Optical diversification** – luminaire optics tailored to the application
- Long Lifespan**—DLC-rated L70 of 162,000 hours
- Performance stability** over luminaire’s entire lifetime
- High delivered lumens per watt for exceptional energy savings**
—up to DLC-rated 120 lumens/watt delivered light!
- IP67 Rating**—operational in extremely wet and/or dusty locations
- Light weight design**—easy installation and handling at less than 12 kg (27 lb.)

IP67



BC Hydro e.CATALOG



SLD-HB Series

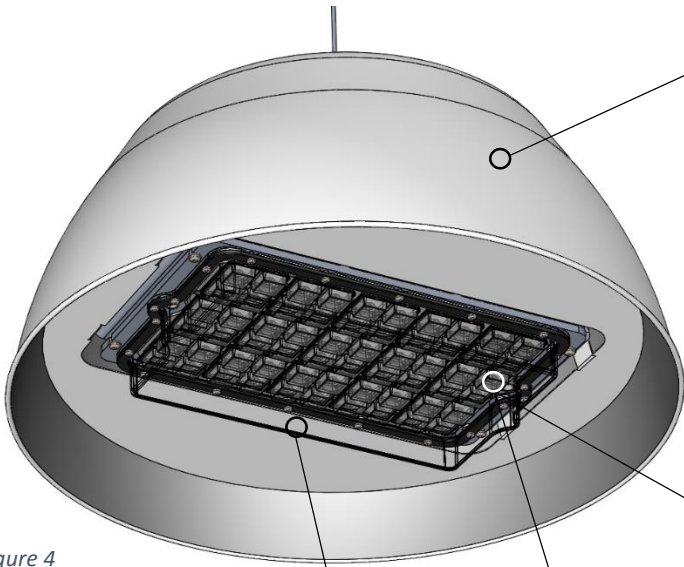


Figure 4

INGRESS PROTECTION – IP67

The luminaire was designed to the specification of **IP67**. This rating is designated for designs that allow **no dust or water to enter** into sensitive components. IP67 is specific for devices that can operate in an environment with heavy particulate and can also remain operable while submerged in 1-m of water for a duration of time. This gives the fixture incredible performance in wet environments.

The LEDs and other electrical components are properly isolated for continual operation in many environments.

EXTERIOR

- Corrosion-Resistant Powder-coat finished metal housing
- UL94-V0 Lensing Components
 - High durability and shatter resistant
 - Plastic quality and optical characteristics unchanging during the luminaire’s life rating
 - Crucial for IP67 rating

UL94-V0 rated plastic is a type of flame resistant plastic—V0 being the strictest rating under the UL94 standard for safety from flammability.

LED CIRCUIT DESIGN

- High-quality power supply
 - Constant-current for performance stability
 - High efficiency and power factor
- LED-Heatsink co-dependent design
 - Proper illumination pattern
 - Excellent heat dissipation performance, i.e. low junction temperature
- Carefully selected LED configuration for best performance in conjunction with optimal drive current for LED. Results in far better reliability:
 - Far less risk of LED failure
 - Color temperature stability
 - Long L70 lumen maintenance rating
 - Longer overall lifespan

For the absolute highest quality in components, ceramic-based LEDs are used. For LED quality assurance and reliability on a component-level basis, this luminaire only uses CREE LED—the best and most trusted in quality and performance.

OPTICAL DIVERSIFICATION

Manipulation of LED positioning, drive current, and appropriate optics allow for the desired characteristics for a lighting layout design of a project.

- High optical efficiency
- Precise light patterns on target surfaces
- Diverse lensing options (10°-131°, Type II, & Type III)
 - Great cut-off characteristics for narrow angle lenses
 - Glare reduction for smoother output for wide angle lensing



Figure 6

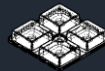


Figure 8

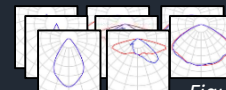


Figure 7

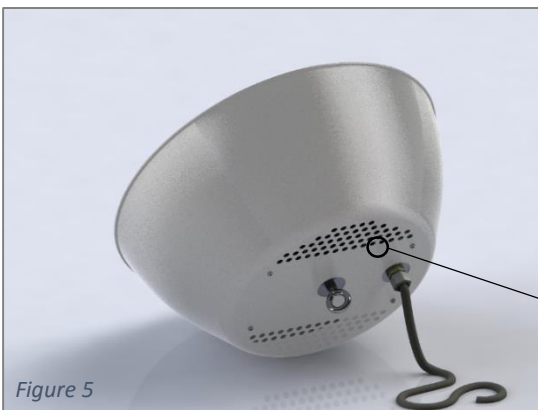


Figure 5

THERMAL DESIGN

Designing the heatsink to match the heat signatures of the LEDs in each of their configurations allows for low junction temperatures at the base of the LED chips. The properly designed heatsink maximizes life span of the LEDs, reaching spans as long as 162,000 hours.



SLD-HB Series



Specifications

Model	SLD-HB-0070	SLD-HB-0100	SLD-HB-0160	SLD-HB-0240	SLD-HB-0300
Delivered Lumens	7,704 lm	10,430 lm	14,260 lm	22,370 lm	31,500 lm
Wattage	64 W	97 W	134 W	195 W	276 W
Delivered Efficacy	120 lm/W	107 lm/W	106 lm/W	115 lm/W	114 lm/W
Voltage	AC100-480V	AC100-480V	AC100-480V	AC100-480V	AC100-480V
Available Color Temp.	2700-6500K	2700-6500 K	2700-6500 K	2700-6500 K	2700-6500 K
L70	137,000 hours	162,000 hours	162,000 hours	162,000 hours	162,000 hours
CRI	>70	>70	>70	>70	>70
Optional CRI	>80, >90	>80, >90	>80, >90	>80, >90	>80, >90
Beam Angle ¹	10°, 25°, 66°, 120°, 131°	10°, 25°, 66°, 120°, 131°	10°, 25°, 66°, 120°, 131°	10°, 25°, 66°, 120°, 131°	10°, 25°, 66°, 120°, 131°
Ingress Protection	IP67 Rated	IP67 Rated	IP67 Rated	IP67 Rated	IP67 Rated
Weight ²	8.55 kg [18.8 lb.]	8.70 kg [19.2 lb.]	8.86 kg [19.5 lb.]	8.95 kg [19.7 lb.]	9.77 kg [21.5 lb.]
Operating Temperature	-40° to 55°C	-40° to 55°C	-40° to 55°C	-40° to 55°C	-40° to 55°C
Dimensions	Ø504mm×258mm [Ø19.8"×10.1"]	Ø504mm×258mm [Ø19.8"×10.1"]	Ø504mm×258mm [Ø19.8"×10.1"]	Ø504mm×258mm [Ø19.8"×10.1"]	Ø504mm×258mm [Ø19.8"×10.1"]
Dimming Compatibility	0/1-10Vdc Optional	0/1-10Vdc Optional	0/1-10Vdc Optional	0/1-10Vdc Optional	0/1-10Vdc Optional
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years
Functional Features ³	Dimming, Motion Sensing, Photocell Function, Surge Protection				
Additional Features ³	Housing Color Options				
Installation	Suspension				

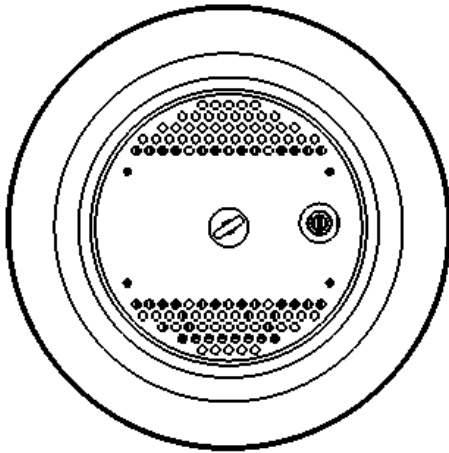
¹ Glare-reduction for beam angles of 131° only.

² Fixture weights specified are displayed for the standard configuration for the model. Weight fluctuation will be dependent on desired configuration.

³ Other features, not listed, may be added per customer request.



Dimensions



The eye hook is approximately 45.5mm [1.79"] in height, with an opening of approximately 19mm [3/4"] diameter.

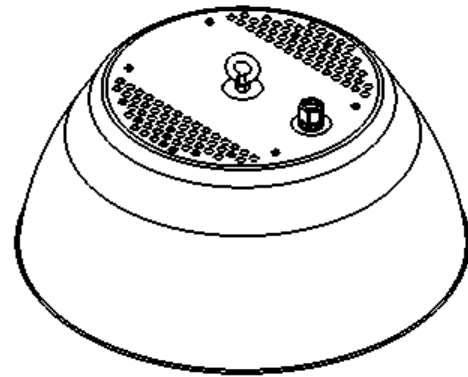
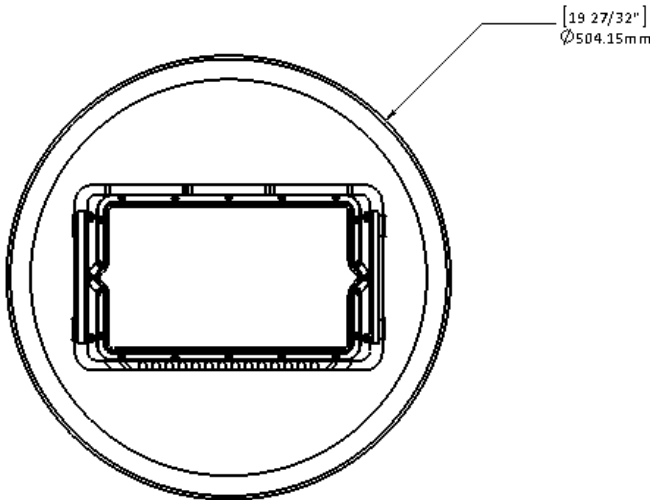
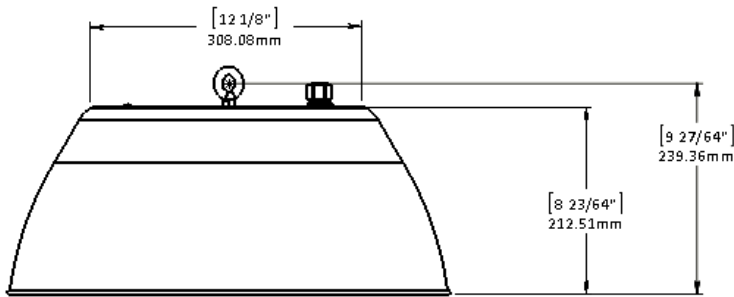


Figure 10

Figure 9

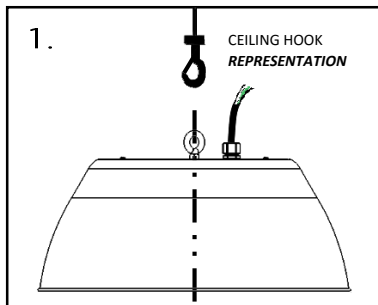
Installation

Mechanical Installation

Ceiling hook, Suspension cable, Etc. will not be provided. Turn OFF power before installing or making adjustments. Please verify installation codes with your contractor.

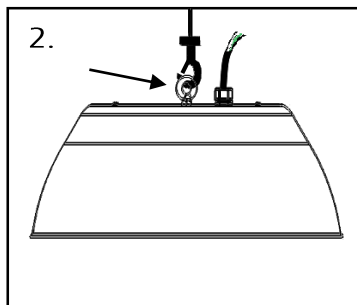


Turn off Mains



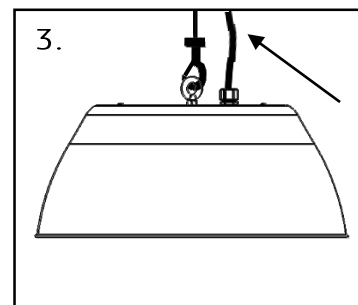
STEP 1:
Locate the ceiling hook. Align the eye hook on the luminaire with the ceiling hook.

Figure 11



STEP 2:
Attach the luminaire to the ceiling hook via the eye hook on the luminaire. Make certain the fixture is properly secured with the hook.

Figure 12



STEP 3:
Connect the luminaire to an AC supply line. Refer to the **Electrical Installation** subsection.

Figure 13



Turn on Mains

Electrical Installation

Please verify electrical codes with your contractor.

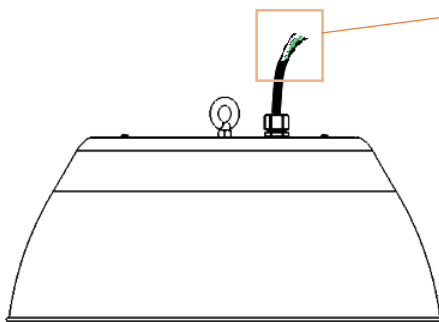
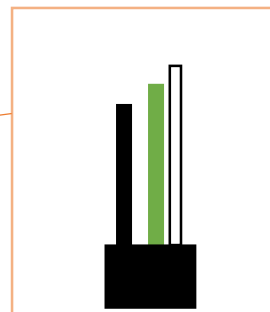


Figure 14



White: AC/Neutral
Black: AC/Line
Green: Ground

Figure 15

Input voltage sources :
AC100-480V



SLD-HB Series



Testimonial

Mark-Crest Foods Ltd.

“The Lumingen fixtures have worked exceptionally well in our facility. The light levels exceeded our expectations, and we are very pleased with the results.”

Mike Meilleur
*Manager for Mark Crest Foods Ltd. in
Langley, British Columbia*

Mark-Crest Foods Ltd. had some very specific requests when it came to converting their existing metal halide fixtures to LED fixtures. In addition to saving energy and increasing their light levels, they required a fixture that can operate in a dust-filled environment like that of their facility. Most importantly, they needed a LED light that could be spray washed once a month.

The lighting layout design team chose the 195-watt SLD-HB-0240 LED luminaire to replace their existing fixtures. This 195-watt LED light, replaced, on a one for one basis, metal halide fixtures that were drawing 460 watts. This provided substantial energy savings. After all factors were taken into account, **48% of the original energy costs was saved** while light levels increased to nearly double of the original light layout. These LED lights were installed using quick connects, so that they can be taken down and spray washed every three months. These fixtures, compared against other high bay lights, are one of the few that have IP67. This makes them impervious to the flour dust that regularly coats fixtures at Mark-Crest Foods, while being water proof enough to withstand regular maintenance cycles of spray washing.



Figure 16

Ditidaht First Nations

“The Lumingen lights have performed even better than we anticipated. We are thrilled with the results.”

Terry Edgar
*Councilor for Ditidaht First Nations in
Nitinat Lake, British Columbia*

When Ditidaht First Nations decided to upgrade the lighting in their gymnasium, they considered luminaire maintenance to be one of the more important considerations. Because they were in a fairly remote location, these lights needed to be durable, reliable, and have an exceptionally long life span. Additionally, they wanted to improve the light levels and light quality for their facility.

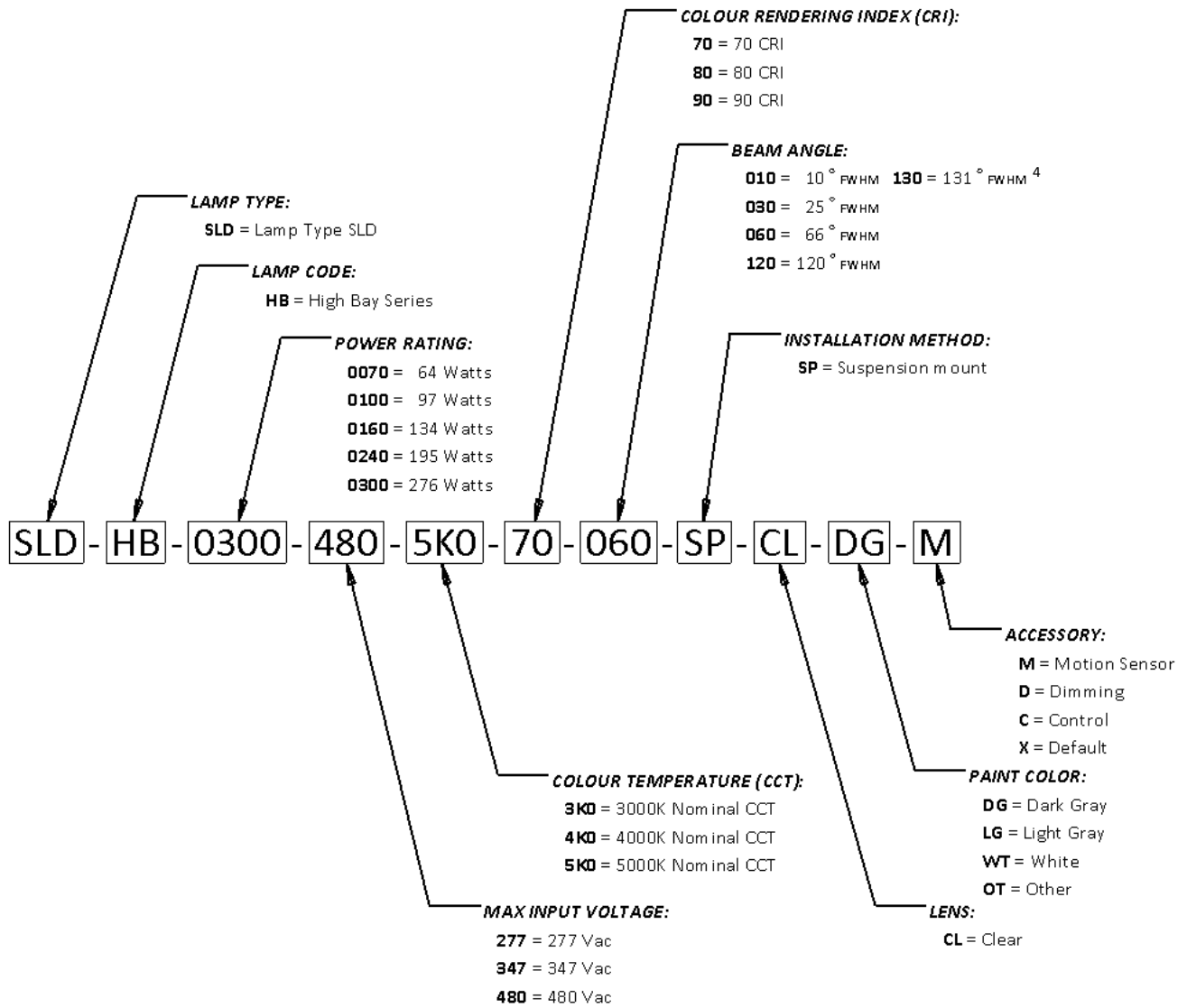
The existing lights were 400-watt metal halide fixtures. They not only required replacement on a regular basis, but the light levels fluctuated through the facility as the bulbs aged. The LED fixtures that they chose were the 134-watt SLD-HB-0160 LED luminaires. One of the considerations was the long lumen maintenance rating reported by Design Lights Consortium (DLC), which was conveyed 162,000 hours of peak performance. The new lighting layout has not only increased the light levels in the facility, but provided a more even, consistent illumination. All this has been accomplished while realizing **70% energy savings**. Facility management will now enjoy the benefit of at least 162,000 hours of trouble-free operation.



SLD-HB Series



Ordering Code



Ordering Code Table

LAMP TYPE	LAMP CODE	POWER RATING	MAX INPUT VOLTAGE	CCT	CRI	BEAM ANGLE	INSTALL METHOD	LENS	PAINT COLOR	ACCESSORY
SLD	HB	0070	277	3K0	70	010	SP	CL	DG	M
		0100	347	4K0	80	030			D	
		0160	480	5K0	90	060			C	
		0240				120			X	
		0300				130				

⁴Glare-reduction for beam angles of 131° only



SLD-HB Series



The Solution for Effective LED Lighting

Visit us at
www.lumingen.com

Or call us at 1.604.371.4112

Specifications and dimensions are subject to change without notice.



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