

NEPTUN

L I G H T



NEPTUN HIGH BAYS

INDUCTION & LED TECHNOLOGY

Upgrading to modern LED or Induction lighting is one of the best ways to reduce energy costs for applications such as manufacturing plants, warehouses, gymnasiums, retail, and many others. Induction and LED lighting offers significantly greater lumen output per watt and requires less maintenance as compared to traditional lighting technology such as Metal Halide and HPS. This brochure presents Neptun's High Bay collection varying in size, material structure, and general design.

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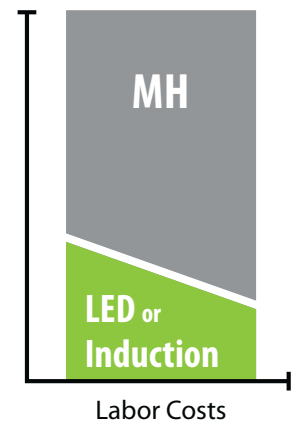
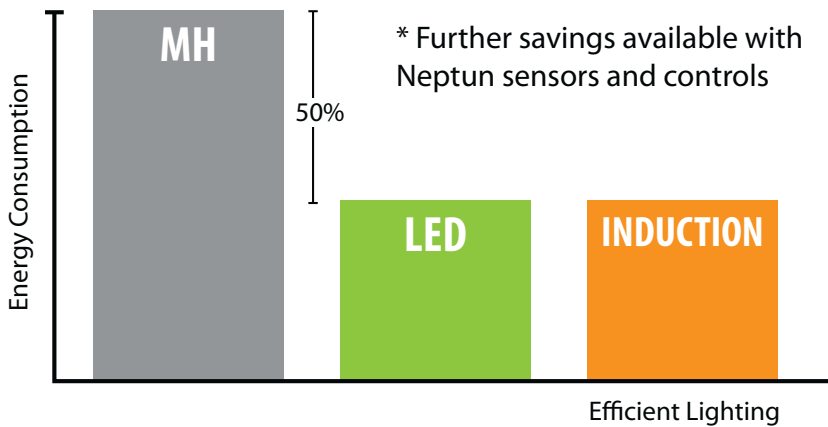


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888.735.8330



Save with Modern Lighting

Dramatically reduce energy and maintenance costs by upgrading to efficient, environmentally friendly lighting technology by Neptun. Neptun Light offers the industry's most progressive product line that contributes substantial value to any facility's lighting strategy.

Competitive factory warranties reflect the manufacturer's confidence in our products and guarantee hassle-free operation for years to come.



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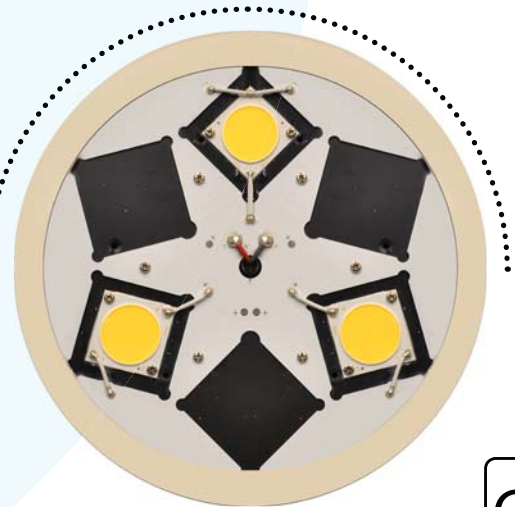
LED-19xxx-PC



LED Technology

Chip On Board (COB) SSL technology is at the core of many Neptun High Bay fixtures, allowing for incredible lumen efficiency and product life-span. COB lighting maintains a lower temperature and higher lumen output per watt, as compared to traditional SSL/LED diodes.

Facilities outfitted with Neptun's LED technology can realize significant savings in energy costs and maintenance. Additional benefits for this technology include various government incentives and better control of light temperatures.



Warranty

Integrating SSL technology with State of the Art product design allows Neptun to offer a **5 Year Warranty** on COB LED High Bays.

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Induction Technology

Induction technology is a tried and tested, reliable method of lighting consuming less than half the total energy as compared to traditional lighting technologies such as HPS, HID, and Metal Halide. Extended bulb lifespans result in significant savings in energy consumption and maintenance costs.

Induction bulbs emit a soft white light with minimal glare for optimal lighting conditions to increase safety and improve visibility for any facility.

Induction bulbs are gas discharge lamps and do not rely on internal electrodes which are typically first to fail in traditional lamps. This results in extended product life, improved light quality, and cooler operational temperature.



Warranty

Highly engineered fixture components improve fixture reliability and allow Neptun to offer an industry leading **10 Year Warranty** on all Induction High Bays.

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LED technology has dramatically evolved over the last decade and is now a viable solution for most commercial lighting applications.

The advantages of LED lighting technology are significant in both performance and business metrics. Neptun LED fixtures deliver 100+ lumens per watt, thereby strengthening the business case to transition from traditional lighting technology such as HPS and Metal Halide.



| Model: | LED-54 Series | LED-LP15 Series | LED-49 Series | LED-LH Series | LED-PC Series | LED-AL Series |
|-------------------|---------------|-----------------|---------------|---------------|---------------|---------------|
| Lumens/watt: | 100+ | 100+ | 100+ | 100+ | 100+ | 100+ |
| CRI: | 80+ | 80+ | 80+ | 80+ | 80+ | 80+ |
| Warranty: | 10 Year | 10 Year | 5 Year | 5 Year | 5 Year | 5 Year |
| Wattages offered: | 260W - 480W | 260W - 480W | 40W - 200W | 60W - 400W | 50W - 400W | 50W - 400W |



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Induction lighting technology is a proven solution for an efficient building energy strategy. Induction bulbs radiate soft, pleasant light with minimal glare and peaks. Longer bulb life-spans drastically reduce maintenance costs by lowering expenses for parts and labor.

Additional savings are available by implementing Neptun control accessories.



| | | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model: | 19xxx-FR | 125xxx-LB | 32xxx | 19xxx-AL | 19xxx-PC | LP3xxx |
| Lumens/watt: | 80+ | 80+ | 80+ | 80+ | 80+ | 80+ |
| CRI: | 80+ | 80+ | 80+ | 80+ | 80+ | 80+ |
| Warranty: | 10 Year | 10 Year | 10 Year | 10 Year | 10 Year | 10 Year |
| Wattages offered: | 100W - 250W | 100W - 250W | 200W - 500W | 120W - 300W | 120W - 300W | 450W - 750W |



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EXTREME LED SYSTEM



LED fixtures designed for operation in extreme conditions such as high temperatures 50-65 °C (120-150 °F) require a unique engineering and manufacturing approach.

Neptun's LED fixtures for Extreme Conditions withstand the most rigorous testing parameters designed to test the limits of integrated components. Stringent testing parameters along with a 5 year manufacturer's warranty ensure care-free operation and long term fixture reliability.



Below Neptun Fixtures are approved for extreme conditions.



LED

| | | |
|---------------------|-----------------|-----------------|
| Model: | LED-25200-PC-HT | LED-25200-AL-HT |
| Lumens/watt: | 100+ | 100+ |
| CRI: | 80+ | 80+ |
| Warranty: | 5 Year | 5 Year |
| Wattages offered: | 200W | 200W |
| Max operating temp: | 65° C | 65° C |

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Control & Automation

Energy savings of up to 80% can be achieved through integration with enhanced fixture control accessories. Control sensors automate lumen output and ensure optimal light conditions while minimizing redundant and unnecessary lumen output. These sophisticated controls leverage state of the art sensors that trigger fixture automation programs.

Fixture control accessories are incompatible with traditional lighting methods due to the typical bulb warm-up delays that are inherent to technologies such as HID and HPS. LED and Induction bulbs are compatible with fixture automation technology due to their instant-on attribute.



| Option | Description | Benefits |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Motion Sensor | Motion Sensor Detectors for On/Off Control | Shuts fixtures off during no traffic activity |
|  Bi Level Dimming | Bi-level Dimming controls 100% / 50% output controlled through motions sensors, or switch activation | Consumes 50% less energy during no traffic operation when security lighting is still needed |
|  0-10V Dimming | 0-10V Dimming controls variable dimming and monitoring through Wireless Wi-Fi or Sensors | Using dimming systems, lighting can be dimmed down to 10% light/power. Using monitoring systems, customers can control output, track energy usage and outages |
|  Daylight Harvest Sensor | Measures and gradually compensates for decreasing natural light | Further reduces energy costs by minimizing redundant and unnecessary lumen output |

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INDUSTRIAL



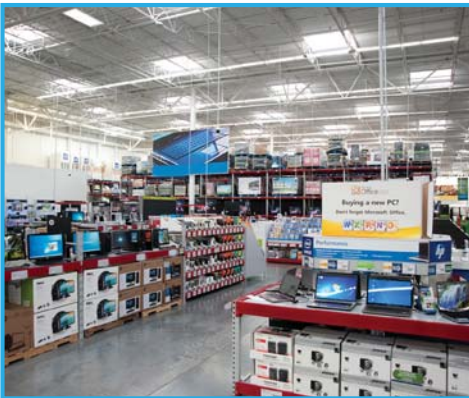
Warehouses and Factories require optimal lighting conditions to ensure safety and efficient performance of staff. Clear visibility and uniform lighting distribution is easily attainable with Neptun's LED and Induction High Bay fixtures. Neptun invests substantial resources into developing fixture designs that achieve optimal lighting conditions in open areas.

GYMNASIUM

Special attention to lighting strategy is required for gymnasiums and arenas hosting athletic activity. Neptun LED and Induction High Bay fixtures minimize glare, reduce shadows, and lend themselves to uniform light distribution through highly engineered chip and fixture lenses. InstantOn technology eliminates light delays and promotes good energy economy for facility managers and users.



RETAIL



Neptun's LED and Induction High Bay fixtures enhance aesthetic appeal for retail facilities while improving safety and efficiency. Delivering 80+ CRI in both LED and Induction lighting technology, Neptun fixtures elevate product appeal by boosting colors and minimizing shadows. Retail businesses take advantage of substantial savings from decreased energy consumption and various financial government incentives for making the environmentally conscious transition.

HANGAR

Neptun High Bays offer incredible versatility in design and distribution control for large open spaces such as airport hangars. LED and Induction technology creates safer working conditions by improving essential visibility and minimizing glare, all while dramatically reducing energy consumption expenses along with maintenance costs.



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250W HIGH-BAY (19250-AL)

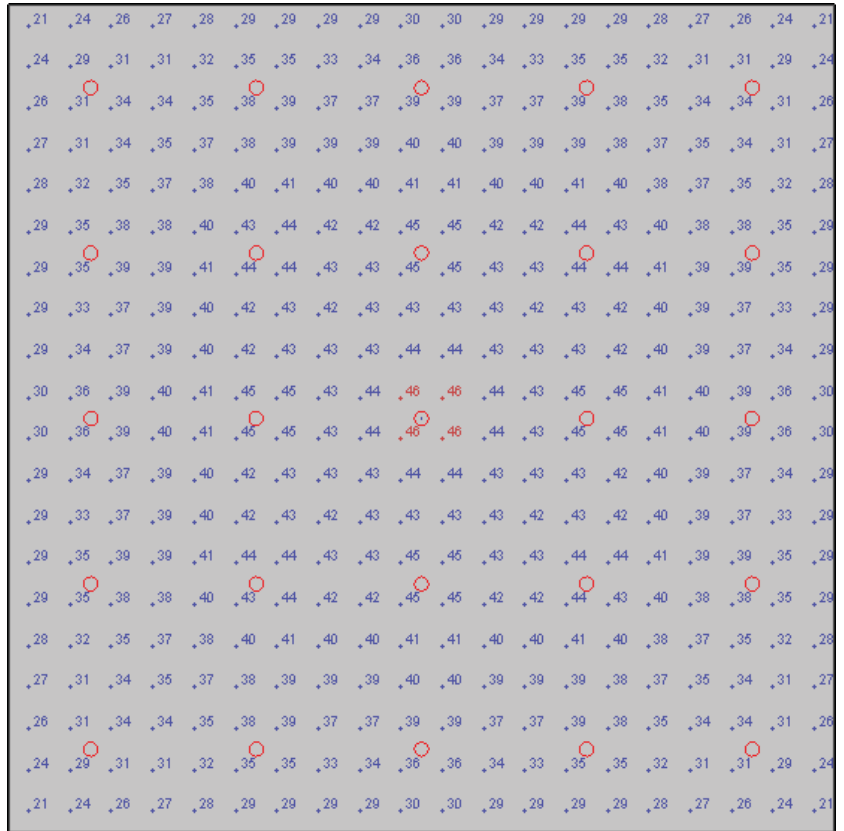


25' Mounting Height
 20' Spacing
 Reflectance = 80/50/20%
 Workplane = 2.5'

INDUCTION

Max = 46 fc
 Min = 21 fc
 Average = 37 fc

○ fixture ## = foot candles



200W HIGH-BAY (LED-19200-AL)

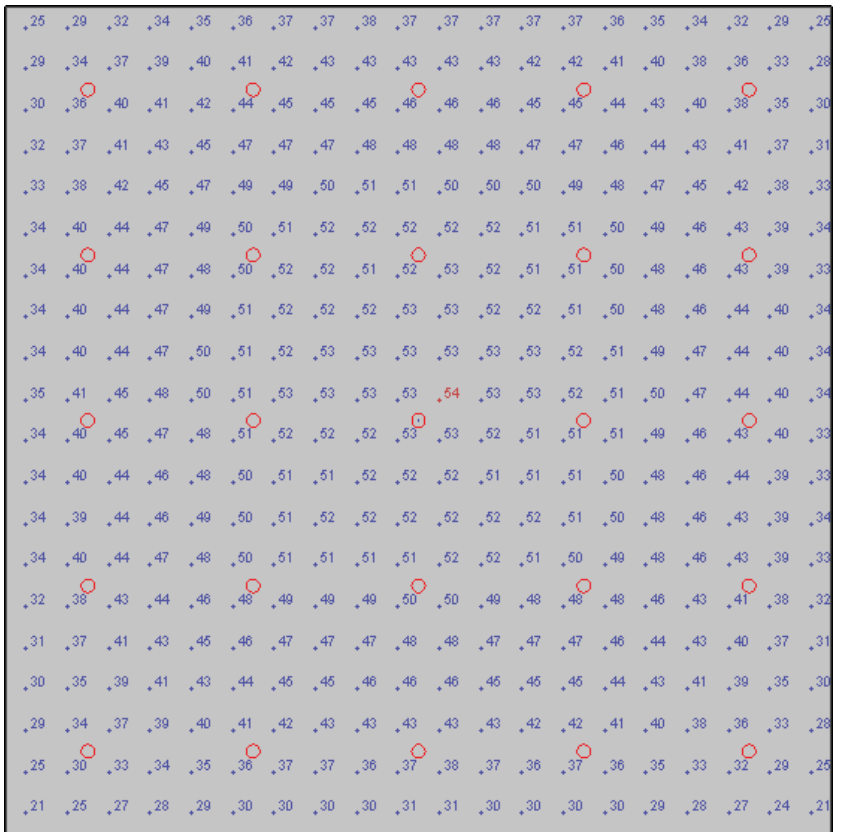


40' Mounting Height
 20' Spacing
 Reflectance = 80/50/20%
 Workplane = 2.5'

LED

Max = 54 fc
 Min = 21 fc
 Average = 43 fc

○ fixture ## = foot candles

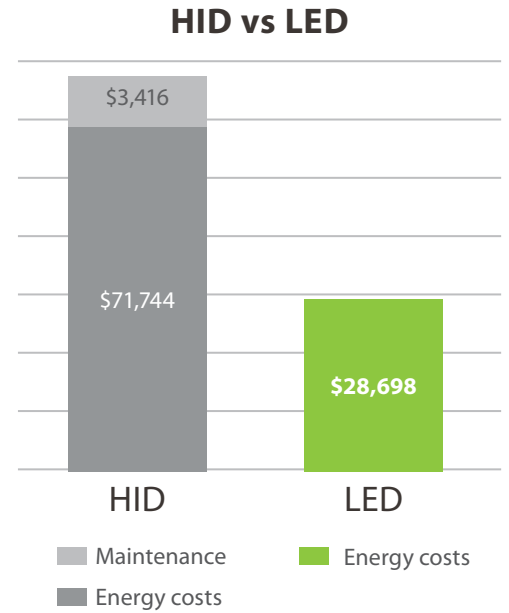


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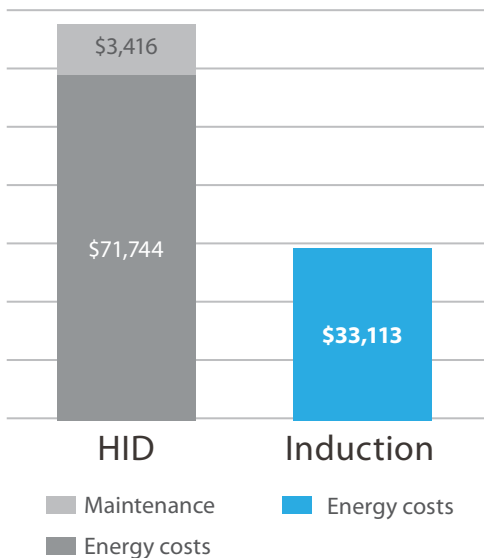
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| | HID | LED |
|-----------------------|--------------|-----------------------|
| Wattage | 400W | 180W |
| No. of fixtures | 300 | 300 |
| CRI | 65 | 80 |
| Life-span | 16,000 hours | L70 > 100,000 hours |
| Maintenance | \$3,416 | \$0 |
| Annual kWh | 597,870 | 239,148 |
| Energy costs | \$71,744 | \$28,698 |
| Total costs | \$75,160 | \$28,698 |
| Annual savings | | \$46,462 (62%) |
| CO2 removed | | 7,694,587 lbs |

* Annual figures, calculated at \$0.12/kWh
 ** Maintenance includes parts + labor at \$16.60/fixture



HID vs INDUCTION



| | HID | INDUCTION |
|-----------------------|--------------|-----------------------|
| Wattage | 400W | 200W |
| No. of fixtures | 300 | 300 |
| CRI | 65 | 84 |
| Life-span | 16,000 hours | 100,000 hours |
| Maintenance | \$3,416 | \$0 |
| Annual kWh | 597,870 | 275,940 |
| Energy costs | \$71,744 | \$33,113 |
| Total costs | \$75,160 | \$33,113 |
| Annual savings | | \$42,047 (56%) |
| CO2 removed | | 9,207,198 lbs |

* Annual figures, calculated at \$0.12/kWh
 ** Maintenance includes parts + labor at \$16.60/fixture

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About Neptun Light

Neptun Light is a leader in the manufacture of energy efficient retrofit products and light fixtures in the fields of LED, Induction, and Solar technology. We boast a highly diversified product portfolio of indoor and outdoor products. Additionally, our products span a wide range of commercial, industrial, government, and utility infrastructure applications. Neptun Light achieves its level of success through timely development of new technology that caters to a constantly evolving marketplace. Among Neptun Light's core values are continuous innovation, high quality products, a focus on energy conservation, and an uncompromised commitment to customer service.



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