



**DURABLE LIGHTING**  
**PROVEN FOR PORTS™**

**PHOENIX®**  
*DURABILITY X DESIGN™*



## A TRADITION OF TRUST.

Phoenix has a rich history of tradition dating back over 123 years in the city of Milwaukee. Since 1892, it has thrived in a number of different industries, but the fundamentals of the company have stayed the same. Phoenix has remained a family-owned business operating with integrity and a focus on customer solutions.

Since the 1940s, Phoenix has specialized in lighting fixtures. The company quickly became the authority on durable lighting designs for the world's harshest environments. Over six decades later, Phoenix is trusted to provide fixtures for heavy equipment, corrosive conditions, hazardous locations and various other demanding applications.

As the lighting industry continues to evolve, Phoenix remains committed to providing the quality, service and innovation that customers have come to expect.



## Phoenix's expertise in container handling equipment

continues to earn the industry's trust by improving operations at terminals all over the world. We demonstrate our "Durability by Design<sup>®</sup>" approach to lighting in one of the world's harshest settings. These fixtures endure constant vibration, large temperature variances and a corrosive marine environment. In a world where sustainability is on the rise and cost-consciousness is a must, ports take advantage of Phoenix's innovative LED options to dramatically increase lifespan, eliminate maintenance costs, and significantly reduce power consumption.

## Our values

### Collaboration

We are committed to the industries we serve and evolve with you as priorities shift and technology advances. The conversation is continuous, and we proudly lend our expertise whenever possible.

### Progress

Our exceptional engineering team and innovative manufacturing practices are widely recognized and ensure that only superior products reach the market.

### Craftsmanship

Our unwavering attention to detail ensures results that far exceed your expectations. We design, engineer and manufacture products that last.

### Authenticity

We stay true to the roots of Phoenix and respect the vision, ingenuity and hard work that have brought us to where we are today. We are committed to the future of our customers, employees and community.

### Durability by Design<sup>®</sup>

Every light. Every project. Every day. We are committed to durability. Our fixtures have been tested and proven in the most extreme conditions. We employ measures like potted drivers, conformal coating, stranded wires, high quality finishes and marine grade components to ensure that our fixtures thrive in their intended environments and last longer than the other market options.

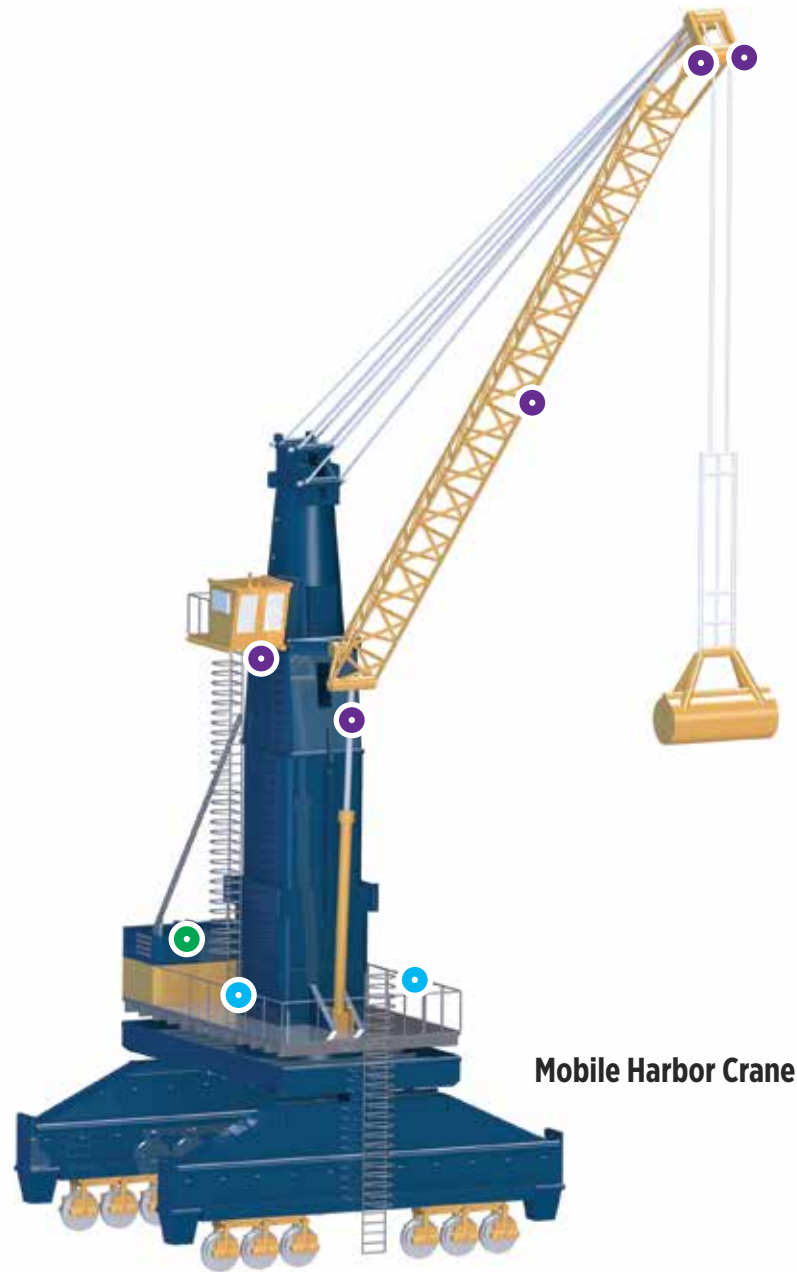


## On-Site Quality Inspection Program

When you select Phoenix to illuminate your new equipment, you benefit from our On-site Quality Inspection Program. Phoenix representatives will be on-site to inspect and sign off on the working condition of the fixtures at every stage of the process.



# Container Handling Equipment Lighting



Mobile Harbor Crane



Rubber Tire Gantry Crane



Ship to Shore



## EcoMod® 2 Series

- MHC** Boom and tower
- RTG** Girders, trolley and gantry
- STS** Boom, girders, trolley, portal beams and gantry



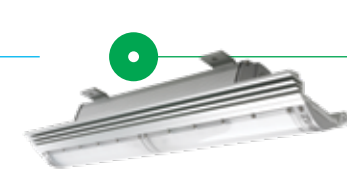
## SturdiLED®

- RTG** Gantry lighting
- STS** Gantry lighting



## Wayfinder™

- MHC** Accessways, stairways
- RTG** Accessways, stairways
- STS** Accessways, stairways



## HDL-LED Series

- MHC** Inside engine room
- STS** Machinery house and electrical room

# Equipment Lighting



## HDL-LED Series Heavy Duty LED

The HDL-LED has been designed to replace up to 4 foot, 2 and 3 lamp 54W linear fluorescent fixtures and up to 400W HID floodlights. The fixture uses marine grade construction and a potted driver.

**US Design Patent No. D720,875**

## EcoMod® 2 Series Heavy Duty LED Floodlight

The EcoMod® 2 is a durable, corrosion resistant, LED floodlight designed to provide superior equipment illumination. Its sleek design provides the lighting performance expected of Phoenix and was created specifically for the port market.

**Patents Pending**

## Wayfinder™ LED Accessway Light

The Wayfinder™ has been designed specifically for terminal crane accessways. The 9W fixture features a rugged construction and contemporary design. The Wayfinder's customized optics and 1,100 lumen output will allow operators superior efficiency, productivity and, most importantly, safety.

**Patent Pending**

## Sturdilite® E-DC Series Low-voltage LED Floodlight

Phoenix's renowned Sturdilite® line has been reinvented to offer a durable, economic LED option for DC applications. The E-DC Series offers four wattage options delivering up to 7100 lumens to cranes, mobile equipment and maintenance platforms.

## Midline™ Flood Heavy Duty LED Floodlight for Terminal Yard Cranes

The Midline™ Flood is the first fixture designed specifically for the gantries of terminal yard cranes. This 78W LED floodlight emits up to 9,200 lumens and meets the unique requirements of port cranes. The Midline Flood has been designed for markets outside of North America and holds CE certification.

## RTG Command Flood™ Heavy Duty LED Floodlight for Terminal Yard Cranes

The RTG Command Flood™ was designed specifically for yard cranes. The 122W LED floodlight delivers up to 15,800 lumens and is built to withstand the shock and vibrations of port equipment. The Command Flood has been designed for markets outside of North America and holds CE certification.

<b>Wattage</b>	28W, 55W (pictured) or 83W	150W, 303W (pictured) or 450W	9W
<b>Lumens</b>	2850, 5700 or 8550	15,900, 31,800 or 47,700	up to 1100
<b>Repairable</b>	✓	✓	
<b>Optic options</b>	✓	✓	
<b>UL1598A Marine</b>	✓	✓	✓
<b>IP rating</b>	IP67	IP66	IP66
<b>CE compliant</b>	✓	✓	✓
<b>DLC listed</b>		✓ (on select models)	
<b>Warranty</b>	5 years	5 years	5 years
<b>Durability tested</b>	<b>DXD</b>	<b>DXD</b>	<b>DXD</b>

<b>Wattage</b>	15W, 24W, 56W or 90W	78W	140W
<b>Lumens</b>	up to 880, 1800, 4500 or 7100	up to 9200	up to 18,000
<b>Repairable</b>			
<b>Optic options</b>	✓	✓	✓
<b>UL1598A Marine</b>			
<b>IP rating</b>	IP69K	IP66	IP66
<b>CE compliant</b>	✓	✓	✓
<b>DLC listed</b>			
<b>Warranty</b>	3 years	5 years	5 years
<b>Durability tested</b>	<b>DXD</b>	<b>DXD</b>	<b>DXD</b>

# High Mast Lighting & Controls



## Highland™ Series High Mast & Area LED Floodlight

The Highland™ Series features two versions, customized optics and the durable construction Phoenix has always been known for. The Highland Series has been designed to meet U.S. and Canadian requirements and is UL/cUL listed to UL 1598.

## Meridian Series High Mast & Area LED Floodlight

The Meridian Series features two versions, customized optics and the durable construction Phoenix has always been known for. The Meridian Series has been designed for markets outside of North America and holds CE certification.

Wattage	up to 255W or 510W	up to 255W or 510W
Lumens	up to 40,000 or 80,000	up to 40,000 or 80,000
Repairable	✓	✓
Optic options	✓	✓
UL1598A Marine		
IP rating	IP65	IP65
CE compliant		✓
DLC listed	✓	
Warranty	5 years	5 years
Durability tested	<b>DXD</b>	<b>DXD</b>



Gateway



Wireless Controller

## LIT System™ Lighting Intelligence Technology

Phoenix's Lighting Intelligence Technology System combines with high mast fixtures to enable lighting control, zone scheduling, asset management and real-time data collection. The LIT System enables ports to benefit from maximized fixture life, increased safety and energy savings of up to 35%.

Communication	securely communicates via ethernet or 3G/4G LTE cellular monitors watts, amps, kW hours and maintenance through intuitive user interface
Fixture compatibility	integrates with Phoenix's Highland™ Series and Meridian Series LED floodlights
Operating frequency	self-healing, IEEE 802.15.4 mesh network, 128-bit AES encrypted communication
Range	connects up to 250 lights with up to 500 meters (LOS) between nodes
Fail safe mode	power on, lamp high = 100%
IP rating	IP66 (Gateway), IP53 (Wireless Controller)
Warranty	3 years
Durability tested	<b>DXD</b>

## Equipment Lighting



### Conveyo™ LED Conveyor Belt Light

This 50W LED fixture is ideal for use on conveyor belts, narrow pathways as well as general wall or pole mount lighting. Emitting up to 6000 lumens, the Conveyo™ offers a durable, yet economic design and was engineered for ease of installation.

### ReadiLED™ Series\* LED Snaplight® & Retrofit Kit

The Snaplight® ReadiLED™ Series offers a new level of simplicity and safety to terminal operators. Requiring less energy and virtually no maintenance, the ReadiLED Series offers an easy upgrade from existing linear fluorescent fixtures.

### Ascend Series Suspension Mounted LED High Bay Floodlight

The Ascend Series is ideal for use in warehouses, workshops and other industrial applications. LED technology increases efficiency, eliminates maintenance and supports green initiatives.

Wattage	50W	19W (pictured) or 38W	100W or 230W
Lumens	6000	1975 or 3617	13,000 or 30,000
Repairable	✓	✓	
Optic options	✓		✓
UL1598A Marine	✓	✓	
IP rating	IP63 (wall mount), IP65 (pole mount)	IP65	IP65
CE compliant	✓	✓	✓
DLC listed			✓
Warranty	3 years	3 years	5 years
Durability tested	<b>DXD</b>	<b>DXD</b>	<b>DXD</b>

\*Retrofit option available



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