



**PHOENIX**<sup>®</sup>  
DURABILITY X DESIGN™



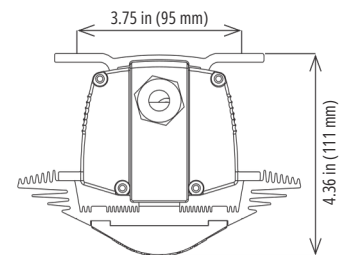
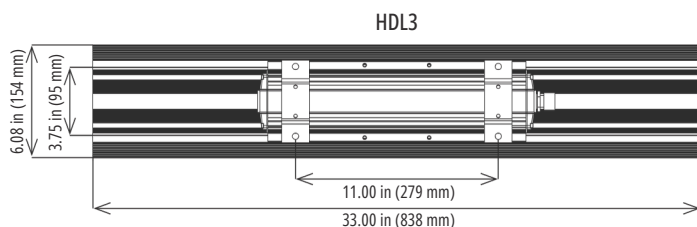
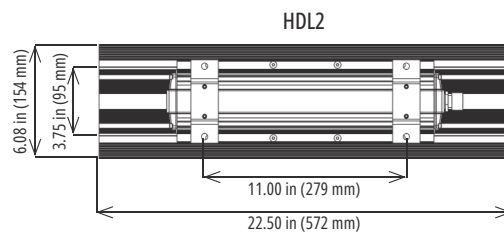
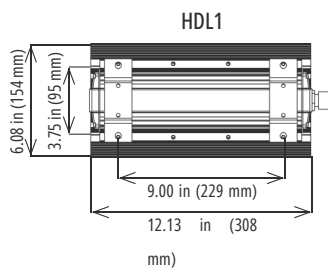
# HDL-LED Series

Heavy Duty LED

US Design Patent No. D720,875

Designed to replace linear fluorescent fixtures and mid-power floodlights  
For use on heavy equipment, conveyors, machine houses and other demanding applications  
Compact, low profile design with various output levels and optic options  
LED technology increases efficiency, eliminates maintenance and supports green initiatives

## Dimensions



# HDL-LED Series

Heavy Duty LED

## Specifications

<b>Construction</b>	Marine grade, extruded aluminum housing Marine grade, die cast aluminum end plates
<b>Finish</b>	Anodized finish on extruded parts Thermoset powder coat paint on die cast parts
<b>Hardware</b>	Marine grade (316) stainless steel
<b>Lens</b>	Diffuse polycarbonate (DP) - standard Clear polycarbonate lens (CP), Type II (T2), Type III (T3) and Type V (T5) optic accessory kits
<b>Light source</b>	Lumileds Luxeon T light emitting diodes (LED) HDL1 - 32W, 3400 lumens HDL2 - 62W, 6600 lumens HDL3 - 92W, 9900 lumens CCT 5000K Conformal coated circuit boards 50,000 hour rated life
<b>Power source</b>	120-277V, 50-60Hz (UNIV) - standard 24V DC option (24VDC) Dimmable driver (0-10V) option available (DIM) Fully potted Replaceable
<b>Power factor</b>	> 0.9 at 120V
<b>Surge protection</b>	20kV/KA
<b>Wiring</b>	Wire leads standard (connectors accept up to 12 AWG wire) 5 ft lead with 277V twist lock plug (TL-277) accessory available Standard fixture is designed for continuous row mounting
<b>Through wiring</b>	Input power 120-277V, 50/60Hz
<b>EMB</b>	90 minute run time Approximately 1100 lumens 7 to 10 year battery life expectancy -40°C to +50°C (non-EMB units)
<b>Ambient operating temperature</b>	0°C to +40°C (EMB units) Threaded plug and two cord grips provided accept cord diameters
<b>Mounting</b>	0.25-0.375 inch Surface/conduit mount (SM) with 1/2 inch NPT outlets - standard Retrofit mounting brackets for Phoenix LFSB or RSL fixtures - sold separately Harp kits sold separately HDL1 - 6.5 lb (3.0 kg)
<b>Weight</b>	HDL2 - 11.0 lb (5.0 kg) HDL3 - 14.0 lb (6.4 kg) 5 years
<b>Warranty</b>	

## Compliances

ETL/cETL Certified to:

- UL 1598 Suitable for Wet Locations
- UL 1598A Marine Outside Type (Saltwater)
- UL 844 Hazardous Location  
Class I, Division 2 Groups A, B, C, D  
Class I, Zone 2 Group IIC  
T4A, 120°C maximum surface temperature
- CSA C22.2 No. 250.0
- CSA C22.2 No. 137

CE

ABS

IP67 rated

LM79 and LM80 reports available



HDL2s in an electrical control room



## Ordering Information

Standard Unit:HDL-2-UNIV-DP-SM

Fixture	Circuit Boards	Voltage	Lens <sup>2</sup>	Mounting	Options
HDL	1	UNIV	DP	SM	DIM 3
	2	24VDC 1			EMB 1
	3				

### Circuit Boards

- 1 One circuit board (3400 lumens)
- 2 Two circuit boards (6600 lumens)
- 3 Three circuit boards (9900 lumens)

### Lens<sup>2</sup>

DP Diffuse polycarbonate

### Options

DIM 3 Dimmable driver (0-10V)  
EMB 1 Emergency battery backup

### Voltage

UNIV 120-277V, 50-60Hz  
24VDC 1 24V DC

### Mounting

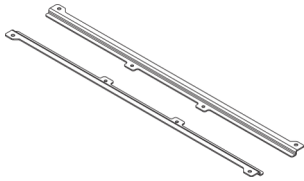
SM Surface/conduit mount

### Notes

- 1 Not ETL/cETL Listed
- 2 Other lens options sold separately. For other lens options, see accessories below.
- 3 Not available on HDL3 in 24V DC

Special Projects: We may be able to accommodate your special projects, so please don't hesitate to ask about additional options. Minimum order quantities and/or extended lead times will apply. Contact your Phoenix representative with specific inquiries.

## Accessories (order separately)



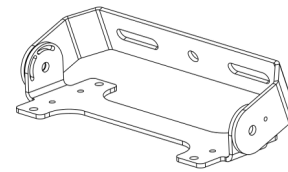
### HDL Retrofit Bracket for LFSB/RSL fixtures

RFBKTHDL1-RSL  
RFBKTHDL1-LFSB2 (LFSB 2 foot)  
RFBKTHDL2/3-RSL  
RFBKTHDL2/3-LFSB4 (LFSB 4 foot)

### Lens

**Kits\*** Clear polycarbonate lens kit  
HDL-CP Type II optic lens kit  
HDL-T2 Type III optic lens kit  
HDL-T3 Type V optic lens kit

HDL-T5  
*Contact factory*



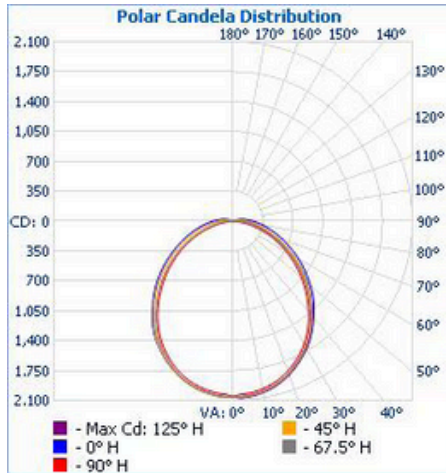
### Harp Kits

KIT-HARP-HDL1 (HDL1)  
KIT-HARP-HDL2/3 (HDL2 and HDL3)

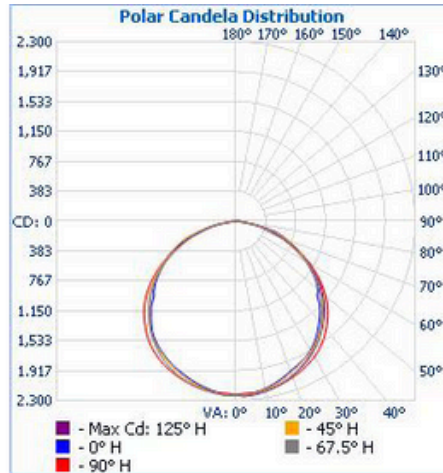


## Photometrics

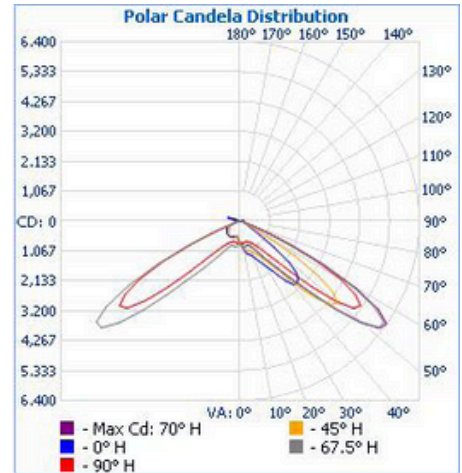
HDL2 UNIV-DP-SM (standard)



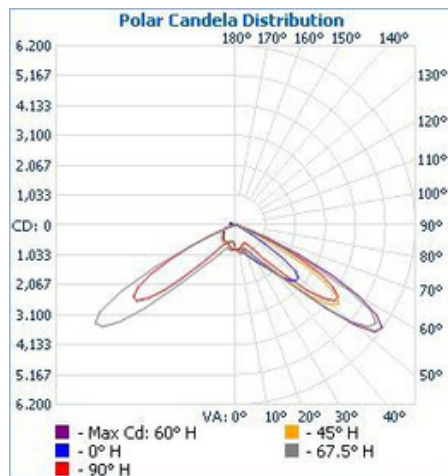
HDL2 UNIV-CP-SM (accessory)



HDL2 UNIV-T2-SM (accessory)



HDL2 UNIV-T3-SM (accessory)



HDL2 UNIV-T5-SM (accessory)

