



PHOENIX[®]
DURABILITY X DESIGN™



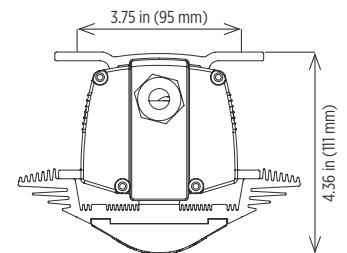
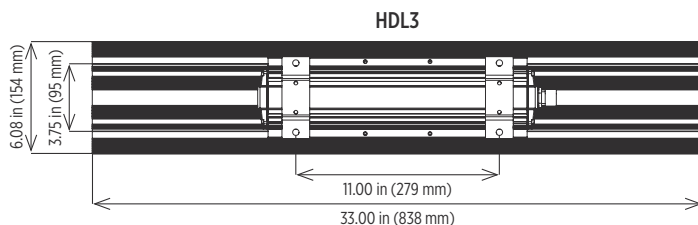
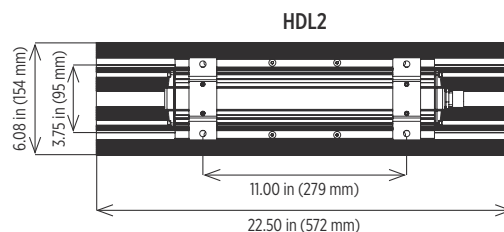
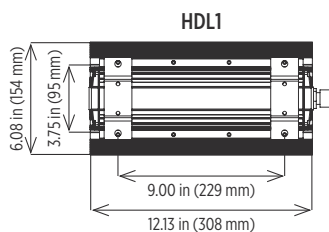
HDL-LED Series

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

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Specifications

Construction	Marine grade, extruded aluminum housing Marine grade, die cast aluminum end plates
Finish	Anodized finish on extruded parts Thermoset powder coat paint on die cast parts
Hardware	Marine grade (316) stainless steel
Lens	Diffuse polycarbonate (DP) - standard Clear polycarbonate lens (CP), Type II (T2), Type III (T3) and Type V (T5) optic accessory kits
Light source	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
Power source	120-277V, 50-60Hz (UNIV) - standard 24V DC option (24VDC) Dimmable driver (0-10V) option available (DIM) Fully potted Replaceable
Power factor	> 0.9 at 120V
Surge protection	20kV/kA
Wiring	Wire leads standard (connectors accept up to 12 AWG wire) 5 ft lead with 277V twist lock plug (TL-277) accessory available
Through wiring	Standard fixture is designed for continuous row mounting
EMB	Input power 120-277V, 50/60Hz 90 minute run time Approximately 1100 lumens 7 to 10 year battery life expectancy
Ambient operating temperature	-40°C to +50°C (non-EMB units) 0°C to +40°C (EMB units)
Mounting	Threaded plug and two cord grips provided accept cord diameters 0.25-0.375 inch Surface/conduit mount (SM) with ½ inch NPT outlets - standard Retrofit mounting brackets for Phoenix LFSB or RSL fixtures - sold separately Harp kits sold separately
Weight	HDL1 - 6.5 lb (3.0 kg) HDL2 - 11.0 lb (5.0 kg) HDL3 - 14.0 lb (6.4 kg)
Warranty	5 years

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 ²	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)

Lens²

- DP Diffuse polycarbonate

Options

- DIM³ Dimmable driver (0-10V)
- EMB¹ Emergency battery backup

Voltage

- UNIV 120-277V, 50-60Hz
- 24VDC¹ 24V DC

Mounting

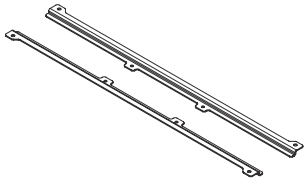
- SM Surface/conduit mount

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)



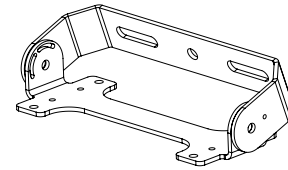
HDL Retrofit Bracket for LFSB/RSL fixtures

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

Lens Kits*

- HDL-CP Clear polycarbonate lens kit
- HDL-T2 Type II optic lens kit
- HDL-T3 Type III optic lens kit
- HDL-T5 Type V optic lens kit

* Contact factory



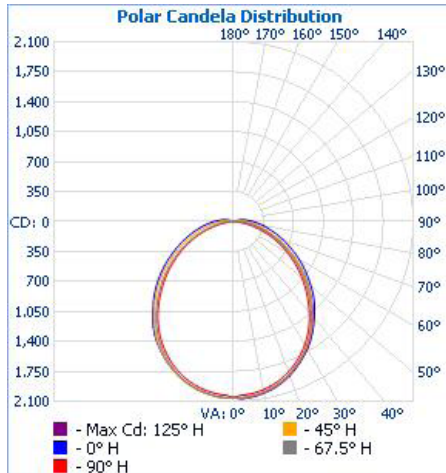
Harp Kits

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

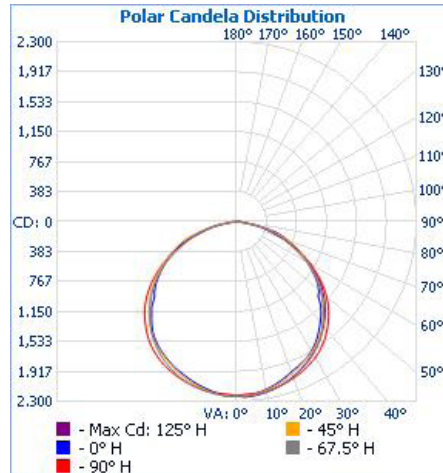


Photometrics

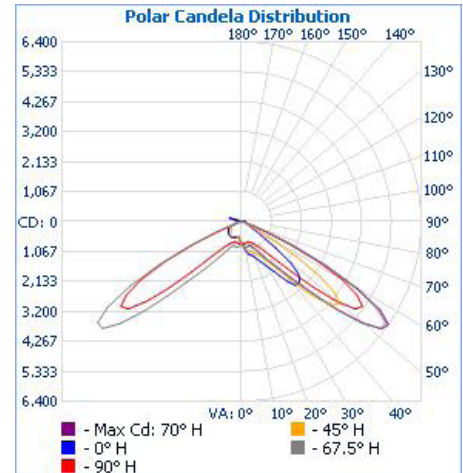
HDL2 UNIV-DP-SM (standard)



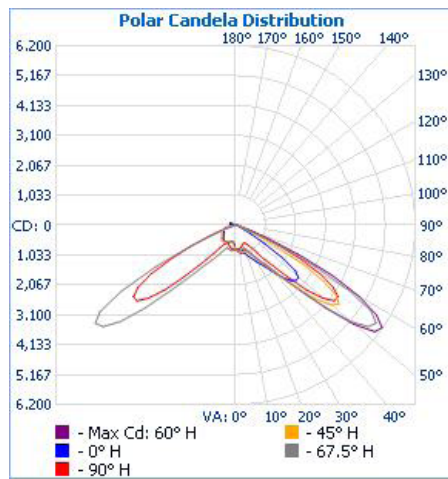
HDL2 UNIV-CP-SM (accessory)



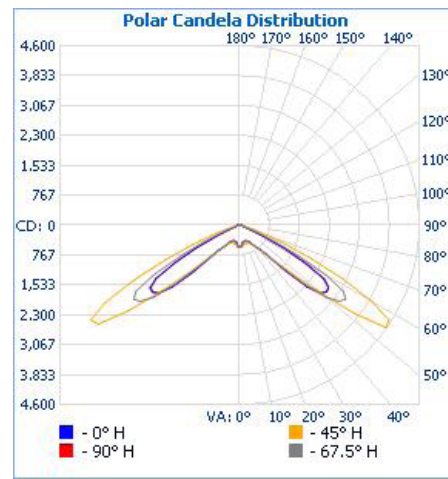
HDL2 UNIV-T2-SM (accessory)



HDL2 UNIV-T3-SM (accessory)



HDL2 UNIV-T5-SM (accessory)



Cover photo: HDL2s installed in a machine house

Product design and specifications are subject to change without notice. The most current version of this specification sheet can be found on our website: www.phoenixlighting.com.