

Type No. _____

Catalog No. _____

Job. Name _____

ILXD Series

IL Xtreme Dual Lamp Industrial Hydroformed Bay, 500-800 watt HID

APPLICATIONS

- Applications include industrial facilities, manufacturing plants, foundries and forges, gymnasiums, and conference centers.

CONSTRUCTION

- Low profile, die-cast aluminum ballast enclosure is finned for heat dissipation and has a white UltraClad polyester powder coat, electrostatically applied and oven cured. Totally enclosed core and coil assembly and capacitor for safe and reliable component life. Standard safety cable between optical/ballast assembly allows secure relamping. Standard unit constructed to IP64. Hinged and gasketed lens frame assembly allows convenient lamp access from below while ensuring a Dust-Tite optical assembly.

OPTICS

- The IL Xtreme Dual Lamp Hydro-formed High Bay has a modular optical assembly with integrally cast hinge and electrical disconnect. One-piece reflector is of heavy gauge (.063) hydro-formed aluminum. Die-cast aluminum lens frame is gasketed to seal the reflector system and provide a dust-tight enclosure. Tempered glass is standard or when lamp manufacturer's data recommends "use in suitably enclosed fixture." Optional Teflon over Glass lens may also be specified.

ELECTRICAL

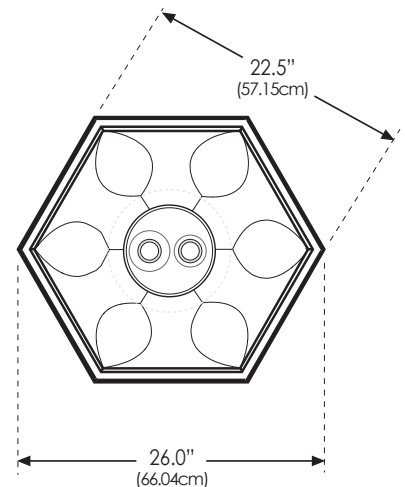
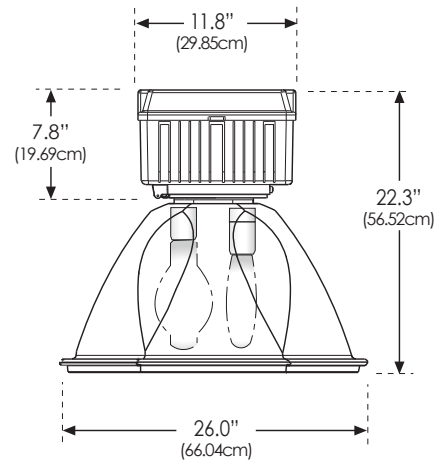
- SilentGuard high power factor ballast with reliable starting to -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium. A solid polyester resin compound encapsulates the core and coil assembly to isolate vibration, suppress sound, dissipate heat, provide protection from moisture and corrosion. Capacitor and starter (HPS and PS models) are mounted on a separate slide-out plate to facilitate field maintenance. 180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8. Two pre-wired grip-type mogul base sockets, pulse rated for 4KV with plug-in connections for quick installation to secondary side of ballast. Socket settings are not adjustable. Require two mogul-based lamps.

MOUNTING

- Removable die-cast ballast enclosure top is supplied with 3/4" NPT conduit entrance. Heavy duty cast-in hinge supports fixture and pre-wired ballast assembly while line connections are made. Cast aluminum nut and hub option provides quick, positive mounting to 3/4" NPT conduit.

WARRANTY/LISTINGS

- Standard 5 Year Limited Warranty. ETL/cETL Listed luminaire, to the UL 1598 standard, suitable for Wet Locations. Standard unit suitable for use in ambient not exceeding 55°C (131°F). With 65 Option, unit is suitable for use in ambient not exceeding 65°C (149°F). The quality systems of this facility have been Registered by UL to the ISO 9001 Series Standards.




See Page 2 for Ordering Information

ILXD Series

IL Xtreme Dual Lamp Industrial Hydroformed Bay, 500-800 watt HID



Series / Source - Wattage ⁽¹⁾		Optics	Voltage
Single Source Dual Lamp Pulse Start Metal Halide <input type="checkbox"/> ILXD-2P250 (500W PSMH) <input type="checkbox"/> ILXD-P250/P320 (570W PSMH) <input type="checkbox"/> ILXD-P250/P350 (600W PSMH) <input type="checkbox"/> ILXD-2P320 (640W PSMH) <input type="checkbox"/> ILXD-P250/P400 (650W PSMH) <input type="checkbox"/> ILXD-P320/P350 (670W PSMH) <input type="checkbox"/> ILXD-2P350 (700W PSMH) <input type="checkbox"/> ILXD-P320/P400 (720W PSMH) <input type="checkbox"/> ILXD-P350/P400 (750W PSMH) <input type="checkbox"/> ILXD-2P400 (800W PSMH) High Pressure Sodium <input type="checkbox"/> ILXD-2S250 (500W HPS) <input type="checkbox"/> ILXD-S250/S400 (650W HPS) <input type="checkbox"/> ILXD-2S400 (800W HPS)		Reflector / Lens <input type="checkbox"/> HDD Hydroformed Diffuse reflector / Diffuse glass lens <input type="checkbox"/> HDTD Hydroformed Diffuse reflector / Teflon over Diffuse glass lens	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 480 <input type="checkbox"/> QV <i>Allows field selection of 120/ 208/ 240/277 voltage. (No 480V). Certain options may require voltage selection as well.</i>
Mixed Source Dual Lamp PSMH / HPS <input type="checkbox"/> ILXD-P250/S250 (500W mixed) <input type="checkbox"/> ILXD-P320/S250 (570W mixed) <input type="checkbox"/> ILXD-P350/S250 (600W mixed) <input type="checkbox"/> ILXD-P250/S400 (650W mixed) <input type="checkbox"/> ILXD-P320/S400 (720W mixed) <input type="checkbox"/> ILXD-P350/S400 (750W mixed) <input type="checkbox"/> ILXD-P400/S400 (800W mixed)			

1) Combined wattage must not exceed 800W.

Distribution Guide and Ballast Data ⁽¹⁾

Source Type ⁽²⁾	Catalog Number	Lamp Envelope	SP / MH	.ies File Name	Ballast Type ⁽³⁾	ANSI Code	Line Current 120/208/240/277/480	Line Watts	LER ⁽⁴⁾
PS	ILXDP-2P250	BT/ED28	2.2	ilp50dd.ies	CWA	M138/M153	5.6 / 3.0 / 2.6 / 2.4 / 1.2	596	49
	ILXD-P250/P320	ED/BT28 & ED/BT28	2.2	ilp57dd.ies	CWA	M138/M153 & M132/M154	6.1 / 3.4 / 3.0 / 2.6 / 1.4	666	
	ILXD-2P320	ED/BT28	2.2	ilp64dd.ies	CWA	M132/M154	6.6 / 3.8 / 3.4 / 2.8 / 1.6	736	
	ILXD-P250/P350	ED/BT28 & ED/BT37	2.2	ilp60dd.ies	CWA	M138/M153 & M131	6.5 / 3.6 / 3.1 / 2.8 / 1.5	698	
	ILXD-P320/P350	ED/BT28 & ED/BT37	2.2	ilp67dd.ies	CWA	M132/M154 & M131	7.0 / 4.0 / 3.5 / 3.0 / 1.7	768	
	ILXD-2P350	ED/BT37	2.2	ilp70dd.ies	CWA	M131	7.4 / 4.2 / 3.6 / 3.2 / 1.8	800	
	ILXD-P250/P400	ED/BT28 & ED/BT37	2.2	ilp65dd.ies	CWA	M138/M153 & M135/M155	6.8 / 3.7 / 3.2 / 3.0 / 1.6	754	48
	ILXD-P320/P400	ED/BT28 & ED/BT37	2.2	ilp72dd.ies	CWA	M132/M154 & M135/M155	7.3 / 4.1 / 3.6 / 3.2 / 1.8	824	
	ILXD-P350/P400	ED/BT37 & ED/BT37	2.2	ilp75dd.ies	CWA	M131 & M135/M155	7.7 / 4.3 / 3.7 / 3.4 / 1.9	856	
HPS	ILXD-2P400	ED/BT37	2.2	ilp80dd.ies	CWA	M135/M155	8.0 / 4.4 / 3.8 / 3.5 / 2.0	912	54
	ILXD-2S250	E18	2.2	ils70dd.ies	CWA	S50	5.4 / 3.2 / 2.6 / 2.4 / 1.4	620	50
	ILXD-S250/S400	E18 & E18	2.2	ils65dd.ies	CWA	S50 & S51	6.8 / 4.1 / 3.4 / 3.1 / 1.8	777	56
PS / HPS	ILXD-2S400	E18	2.2	ils80dd.ies	CWA	S51	8.2 / 5.0 / 4.2 / 3.8 / 2.2	934	60
	ILXD-P250/S250	ED / BT28 & E18	2.2	ilps50dd.ies	CWA	M138 / M153 & S50	5.5 / 3.1 / 2.6 / 2.4 / 1.3	608	
	ILXD-P320/S250	ED / BT28 & E18	2.2	ilps57dd.ies	CWA	M132 / M154 & S50	6.0 / 3.5 / 3.0 / 2.6 / 1.5	678	
	ILXD-P350/S250	ED / BT37 & E18	2.2	ilps60dd.ies	CWA	M131 & S50	6.4 / 3.7 / 3.1 / 2.8 / 1.6	710	
	ILXD-P250/S400	ED / BT28 & E18	2.2	ilps65dd.ies	CWA	M138 / M153 & S51	6.9 / 4.0 / 3.4 / 3.1 / 1.7	765	
	ILXD-P320/S400	ED / BT28 & E18	2.2	ilps72dd.ies	CWA	M132 / M154 & S51	7.4 / 4.4 / 3.8 / 3.3 / 1.9	835	
	ILXD-P350/S400	ED / BT37 & E18	2.2	ilps75dd.ies	CWA	M131 & S51	7.8 / 4.6 / 3.9 / 3.5 / 2.0	867	
	ILXD-P400/S400	ED / BT37 & E18	2.2	ilps80dd.ies	CWA	M135 / M155 & S51	8.1 / 4.7 / 4.0 / 3.7 / 2.1	923	

Distribution Guide and Ballast Data Notes:

1) The ILXtreme Dual Lamp Hydroformed High Bay accommodates a variety of other wattages and lamps. Please consult factory with specific requirements.

2) PS = Pulse Start Metal Halide; HPS = High Pressure Sodium.

3) CWA = Constant Wattage Autotransformer.

4) Calculated in accordance with NEMA standard LE-5B.

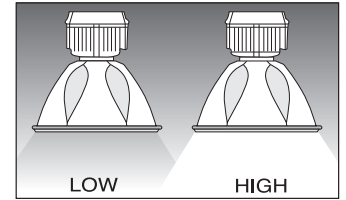
ILXD Series

IL Xtreme Dual Lamp Industrial Hydroformed Bay, 500-800 watt HID

Options (factory installed)

☐ **BL** Bi-Level *Requires 5-wire.*

Bi-Level option provides high/low dimming levels of lamp output with 50% power consumption. Zero crossover network avoids strobing and lamp dropout.



Quartz Auxiliary / Emergency Lighting Systems

Note: Combined Quartz wattage may not exceed HID lamp wattage. Standard 150 watt (120V) double contact bayonet base socket.

LQ1 and LQ2 require an Interlock (by others) to ensure HID and quartz source are not operated together.

- ☐ **CSR** Hot Quartz Restrike
- ☐ **LQ** Hot/Cold Quartz Restrike
- ☐ **LQ1** Separately wired (120V) Quartz Restrike
Requires 5-wire.
- ☐ **LQ2** LQ and LQ1 combined in the same fixture
Requires 5-wire.

Litematic Operation (LQ = LiteMatic Quartz)

Normal Start:
Main HID and auxiliary Quartz lamps both energized.



Main Lamp Reaches Approximately 40% of Rated Output:
Auxiliary Quartz lamp automatically extinguishes.
Combined lamp currents never exceed that of main lamp at 100% output.



When Arc Extinguished:
After power interruption, auxiliary Quartz lamp is automatically energized when power is restored and remains on during run down, restrike and ramp up.

Main Lamp Reaches Approximately 40% of Rated Output:
Auxiliary Quartz lamp automatically extinguishes.

CSR: Quartz restrike using a current sensing relay.
Activation: At cold start / restrike, through Run Down. Extinguishes once main HID lamp strikes / restrikes.

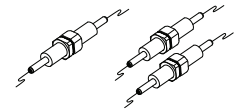
LQ: Provides LiteMatic T5HO Quartz auxiliary operation for fixtures with 120V or multi-tap ballasts.
Activation: At cold start / restrike, through run down, restrike and ramp up. Extinguishes after HID lamp reaches approximately 40% light output.

LQ1: Separately wired, externally controlled Quartz Emergency Lighting from an auxiliary power source (generator, inverter, UPS).
Activation: Emergency (Black Out) conditions only. Extinguishes when main power is restored.

LQ2: Combines the standard LQ and LQ1 systems to provide the ultimate in safety and security.
Activation: 1) At cold start / restrike, through run down, restrike and ramp up. Extinguishes after HID lamp reaches approximately 40% light output.
2) Emergency (Black Out) conditions only. Extinguishes when main power is restored.

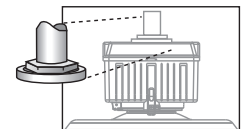
- ☐ **F1** Single fuse (120V/277V)
- ☐ **F2** Double fuse (208V/240V/480V)
Note: If ordering QV ballast, voltage must be specified.

1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses.



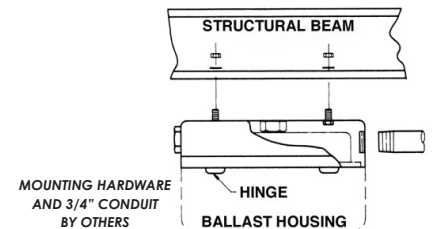
- ☐ **NH** Nut & Hub
Note: Fixture is constructed to IP54.

Cast aluminum nut and hub for quick, positive mounting to 3/4" NPT or NPSM conduit.



- ☐ **TW** Thru-Wire Ballast

Top thru-wire mounting. Top mounting plate of ballast is modified allowing surface mount for thruway wiring. Two 3/4" NPT threaded conduit entries allow connections to be performed without the need for a separate outlet box.



- ☐ **50HZ** 50 Hz ballast operation
Consult factory.

Specified for applications (outside the U.S. where 50 Hertz operation is standard).

- ☐ **WHT-EPXY-CTD** White Epoxy coated

Durable coating offers protection against mildly acidic or alkaline conditions.

ILXD Series

IL Xtreme Dual Lamp Industrial Hydroformed Bay, 500-800 watt HID

Alternate Mounting options

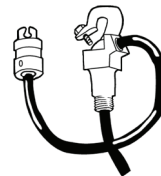
Note: * Units constructed with or intended for use with HCP, H4, LCP, or H5 options are not Wet Location Listed.

- ☐ **HCP-(X)C-L(Y)20P*** Hook, Cord and Plug, 3-Wire
 (X) = Cord length in feet
 (Y) = 3-Wire NEMA voltage code:
 5=120V, 6=208/240V, 7=277V, 8=480V

- ☐ **HCP-(X)C-L2320P*** Hook, Cord and Plug, 5-Wire
 (X) = Cord length in feet: 3, 6 or 10

Unit is pre-wired with 3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, along with die-cast hook with locking screw. 20A standard.

When specified with BL, LQ1 or LQ2, unit is pre-wired with 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast hook with locking screw. 20A standard.

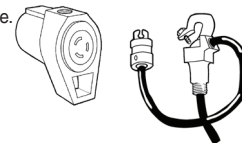


- ☐ **H4-HCP-L(Y)20P*** Pendant Power Hook, 3-Wire (300V) with HCP
 (Y) = 3-Wire NEMA voltage code:
 5=120V, 6=208/240V, 7=277V, 8=480V

- ☐ **H4-HCP-L2320P*** Pendant Power Hook, 5-Wire (600V) with HCP

Pendant Mounted Power Hook with NEMA receptacle. Unit is pre-wired with Hook, Cord and Plug.

When specified with BL, LQ1 or LQ2, Pendant Mounted Power Hook has an L2320R NEMA receptacle. (5-wire)

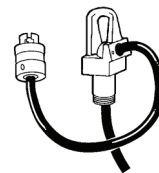


- ☐ **LCP-(X)C-L(Y)20P*** Loop, Cord and Plug, 3-Wire
 (X) = Cord length in feet
 (Y) = 3-Wire NEMA voltage code:
 5=120V, 6=208/240V, 7=277V, 8=480V

- ☐ **LCP-(X)C-L2320P*** Loop, Cord and Plug, 5-Wire
 (X) = Cord length in feet: 3, 6 or 10

Unit is pre-wired with 3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, with die-cast loop. 20A standard.

When specified with BL, LQ1 or LQ2, unit is pre-wired with 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), with die-cast loop. 20A standard.

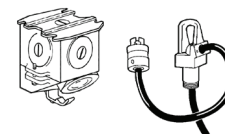


- ☐ **H5-LCP-L(Y)20P*** Power Hook, 3-Wire (300V) with LCP
 (Y) = 3-Wire NEMA voltage code:
 5=120V, 6=208/240V, 7=277V, 8=480V

- ☐ **H5-LCP-L2320P*** Power Hook, 5-Wire (600V) with LCP

Power Hook with thru-wire provision contains a NEMA receptacle. Unit is prewired with Loop, Cord and Plug.

When specified with BL, LQ1 or LQ2, Power Hook has an L2320R NEMA receptacle (5-wire).



Accessories (Field Installed - Shipped Separately)

ballast fusing accessories

☐ **F1-KIT** Single Fuse Kit, 120 / 277V

☐ **F2-KIT** Double Fuse Kit, 208 / 240 / 480V

alternate mounting accessories

Note: * Units installed with HCP, LCP, H4, H5, ILX-TMA, HM or LM accessories are not Wet Location Listed.

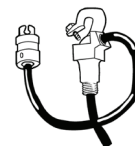
☐ **HCP-(X)C-L(Y)20P*** Hook, Cord and Plug, 3-Wire
(X) = Cord length in feet
(Y) = 3-Wire NEMA voltage code:

5=120V, 6=208/240V, 7=277V, 8=480V

☐ **HCP-(X)C-L2320P*** Hook, Cord and Plug, 5-Wire
(X) = Cord length in feet

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug as specified, with die-cast hook with locking screw. 20A standard. (3-wire)

When specified for a unit with BL, LQ1 or LQ2, the 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast hook with locking screw is required. 20A standard. (5-wire)



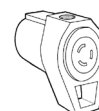
☐ **H4*** Pendant Power Hook, 3-Wire

☐ **H4-5W*** Pendant Power Hook, 5-Wire

H4 Pendant Mounted Power Hook (3-wire) with L9-20R NEMA receptacle.

When specified for a unit with BL, LQ1 or LQ2, the 5-wire version with an L2320R NEMA receptacle (H4-5W) is required.

Used with corresponding Hook, Cord and Plug.

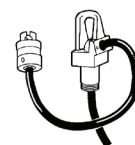


☐ **LCP-(X)C-L(Y)20P*** Loop, Cord and Plug, 3-Wire
(X) = Cord length in feet
(Y) = 3-Wire NEMA voltage code:
5=120V, 6=208/240V, 7=277V, 8=480V

☐ **LCP-(X)C-L2320P*** Loop, Cord and Plug, 5-Wire
(X) = Cord length in feet

3-conductor rubber jacketed cable and heavy duty (16/3) NEMA twist-lock plug, with die-cast loop. 20A standard. (3-wire)

When specified for a unit with BL, LQ1 or LQ2, the 5-conductor rubber jacketed cable and heavy duty (16/5) NEMA twist-lock plug (L2320P), along with die-cast loop is required. 20A standard. (5-wire)



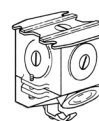
☐ **H5*** Power Hook with thru-wire provision, 3-Wire

☐ **H5-5W*** Power Hook with thru-wire provision, 5-Wire

H5 Power Hook (3-wire) with thru-wire provision contains a L9-20R NEMA receptacle.

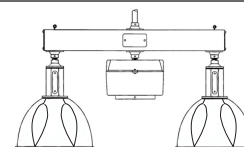
When specified for a unit with BL, LQ1 or LQ2, the 5-wire version with an L2320R NEMA receptacle (H5-5W) is required.

Used with corresponding Loop, Cord and Plug.



☐ **ILX-TMA*** Twin mount adapter

Twin mounting arm for mounting two luminaires. Arm is extruded aluminum with 3/4" NPT pipe couplings for luminaire and direct conduit mounting.



mounting extras

☐ **HM***

Hook
Male



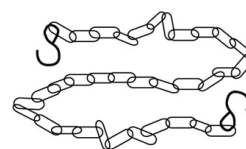
☐ **JA75** Joint Aligner

50 lb. maximum allowed.



☐ **BRC(X)-ILX**

Ballast Retainer Chain
(X) = Chain length in feet:
3, 5, 7, or 10



☐ **SC4-ILX-H/P**

Optic Safety Cable



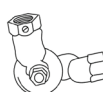
☐ **LM***

Loop
Male



☐ **SH75** Swivel Hanger

50 lb. maximum allowed if hung from junction box.

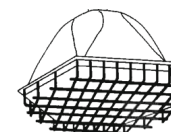


☐ **WG**

Wireguard

Provides protection of the lens.

Recommended for use in gymnasiums and similar facilities.



ILXD Series

IL Xtreme Dual Lamp Industrial Hydroformed Bay, 500-800 watt HID

Notes



© 2013 Koninklijke Philips N.V. (Royal Philips). All rights reserved.
Specifications are subject to change without notice.
www.philips.com/luminaires

SP033A0513

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008