

Type No. \_\_\_\_\_

Catalog No. \_\_\_\_\_

Job. Name \_\_\_\_\_

# WL Series

## WarehouseLyte/FreezerLyte

### APPLICATIONS

- Applications include warehouses, low ceiling applications, cold storage, food processing plants, and light industrial manufacturing facilities.

### CONSTRUCTION

- One piece precision die-cast aluminum housing with a white UltraClad polyester powder coat, electrostatically applied and oven cured. Die-cast aluminum lens frame with integral hinges fastens with corrosion resistant captive hardware. Glass lens is permanently sealed to lens frame with liquid silicone. Rubber gasket provides positive seal between lens frame assembly and housing. Die-cast aluminum semi-recessed door frame for lamp access. Standard unit constructed to IP52.

### OPTICS

- Features a bisymmetric optical assembly that incorporates 85% reflectance, anodized aluminum hammertone top and side reflectors with specular end segments. Specular aluminum auxiliary "kick blades" positioned on reflector sides with apex perpendicular to axis of the lamp arc tube throw and elongated pattern with a strong vertical component to precisely illuminate aisles and shelves. Standard clear tempered glass is heat and impact resistant.

### ELECTRICAL

- High power factor constant-wattage autotransformer (CWA) ballast with reliable starting to -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium. 180°C (356°F). Equipped with Class H insulation system. Crest factor does not exceed 1.8. Capacitor, starter (HPS models), and Bi-Level switching components are mounted in a separate compartment for cooler operation and to facilitate field maintenance. Optional Bi-Level switching ballast provides full illumination when refrigerated space is occupied and when used with infrared motion detectors, automatically switches to low energy-saving light level when the space is vacant. Premium porcelain socket is field adjustable with four separate socket positions. Grip-type mogul base socket is pulse rated at 4KV.

### MOUNTING

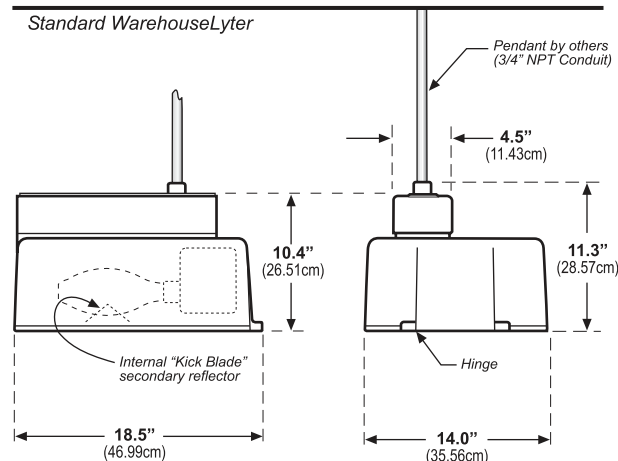
- Pendant mounting is standard. Surface mounting is possible by means of an aluminum mounting channel, offset and bolted to the die-cast housing to balance luminaire and allow direct mounting to ceiling by 1/2" threaded rod and fasteners).

### WARRANTY/LISTINGS

- Standard 5 Year Limited Warranty. UL/cUL Listed luminaire, UL 1598, suitable for Damp Locations. Suitable for use in ambient not exceeding 40°C (104°F). NSF Sanitation Listing available. The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards

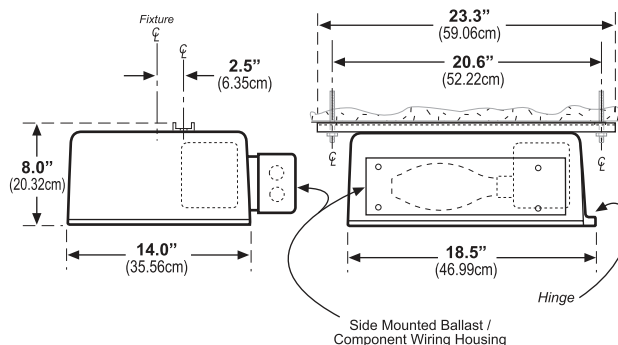
#### WL Pendant Mount

##### Standard WarehouseLyte

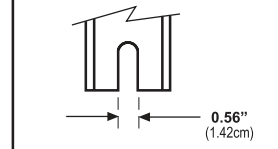


#### with LP Low Profile Surface Mount Option

##### FreezerLyte / Low Profile WarehouseLyte



#### Mounting Channel Detail

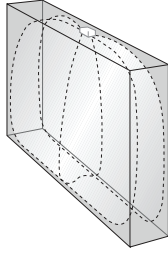
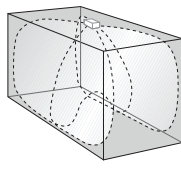


See Page 2 for Ordering Information

# WL Series

## WarehouseLyte/FreezerLyte



Series	Voltage	Socket Setting
Pulse Start Metal Halide	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 480 <input type="checkbox"/> QV <sup>(1)</sup>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5   <p>Socket Setting 1: Diagram represents results of upper socket position, suitable for tall, narrow aisles.</p> <p>Socket Setting 5: Diagram represents results of lower socket position, suitable for low, wide aisles.</p> <p>Note: In some wattages and sources, certain socket positions require the use of tubular lamps.</p>
High Pressure Sodium	<input type="checkbox"/> WLS-250 <input type="checkbox"/> WLS-400	

<sup>(1)</sup> Allows field selection of 120/208/277 voltage. (No 480v)  
 • Certain options may require voltage selection as well.

### Distribution Guide and Ballast Data <sup>(1)</sup>

Source/Type (2)	Catalog Number	Lamp Envelope (3)	SP/MH				.ies File name (5)	ANSI Code	Line Current					Line Watts	LER (6)			
			1	2	3	5			120	208	240	277	480		1	2	3	5
PS	WLP-400	E28/BT37	NA	1.6	1.6	1.6	WLP40(*).ies	M135/M155	4.00	2.20	1.91	1.75	1.00	462	NA	27	27	26
	WLP-350	E28/BT37	1.6	1.6	1.6	1.6	WLP35(*).ies	M131	3.70	2.10	1.80	1.60	0.90	400	-	31	30	29
	WLP-320	E28/BT37	1.6	1.6	1.6	1.6	WLP32(*).ies	M132/M154	3.30	1.90	1.70	1.40	0.80	368	-	43	43	42
	WLP-250	T15(4)/E28/BT28	1.6 (4)	1.6	1.6	1.6	WLP25(*).ies	M138/M153	2.75	1.45	1.30	1.20	0.60	298	-	35	35	34
HPS	WLS-400	E18	1.4	1.5	1.5	1.5	WLS40(*).ies	S51	4.10	2.45	2.10	1.85	1.10	467	33	33	33	32
	WLS-250	E18	1.4	1.5	1.5	1.5	WLS25(*).ies	S50	2.70	1.55	1.30	1.20	0.70	310	43	43	43	42

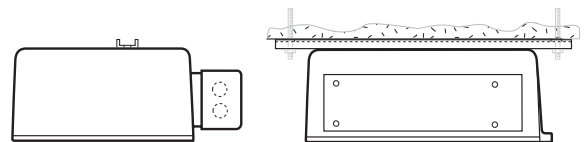
#### Distribution Guide and Ballast Data Notes:

- 1) The WL Series can accommodate other wattages and lamps. Consult factory.
- 2) PS = Pulse Start Metal Halide w/CWA ballast, HPS = High Pressure Sodium w/CWA ballast.
- 3) Clear lamps are recommended to provide optimum photometric performance.
- 4) 250w PSMH: Socket position 1 requires the use of T15 lamp (250w/H75/T15/PS/740). Socket positions 2, 3 and 5 will accept the standard BT/ED28 lamp. 250w PSMH (horizontal burn lamps) may not be bi-leveled at time of publication.
- 5) (\*) Specify socket setting 1, 2, 3 or 5. Socket setting 1 may not be specified for 400w PSMH. No suitable lamp available at time of publication.
- 6) Calculated in accordance with NEMA Standard LE-5B.

### Options (factory installed)

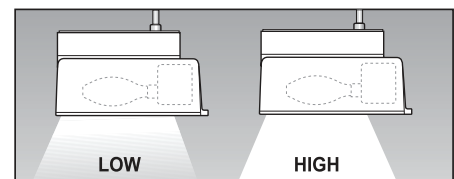
#### ☐ LP Low-Profile Mount

Components are mounted to side of 8" deep housing providing lowest profile available in the industry.



#### ☐ 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.



### Options (factory installed)

- ☐ **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. For other combinations, consult factory.*

*LQ1 and LQ2 require an Interlock (by others) to ensure HID and Quartz source are not operated at once.*

*Note: Standard 150w (120v) double contact bayonet based socket. Combined Quartz wattage may not exceed HID lamp wattage.*

**CSR:** Quartz restrike using a current sensing relay. Extinguishes auxiliary lamp when main arc strikes.

**LQ:** Provides LiteMatic operation for fixtures with 120V or multi-tap ballasts.

**LQ1:** Separately wired, externally controlled Emergency Lighting from a separate power source.

**LQ2:** Combines the standard LQ and LQ1 systems to provide the ultimate in safety and security.

#### 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.

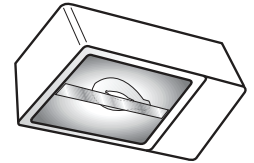
- ☐ **F1** Single fuse (120V/277V)
- ☐ **F2** Double fuse (208V/240V/480V)  
*Note: If ordering QV ballast, voltage must be specified.*

Consists of 1 or 2 internal fuse holders and 1 or 2 KTK 30 amp fuses.



- ☐ **LS** Lamp Shield

Internal shielding to provide visual protection against direct glare from arc tube.



- ☐ **TG** Teflon over glass lens. FEP Teflon over standard glass lens allows improved cleanability.

- ☐ **C73** Prismatic tempered glass lens. Corning 73 prismatic glass lens affords additional light control.

- ☐ **TG73** Teflon over prismatic glass lens. FEP Teflon over Corning 73 prismatic glass lens allows improved cleanability along with the diffuse characteristics of prismatic glass distribution.

- ☐ **50HZ** 50Hz Ballast Operation (consult factory). Specified for applications (outside the U.S.) where 50Hz operation is standard.

- ☐ **SL** Sanitation Listed (required for NSF listing). With this option, luminaire is NSF listed for splash and non-food zones.

### Options (factory installed)

- ☐ **HCP-(X)C-L(YYYY)20P\*** Hook, Cord and Plug, pre-wired, 20A standard  
(X) = Cord length in feet (1)

(YYY) = 3-Wire NEMA voltage code:

520=120V, 620=208/240V, 720=277V, 820=480V

Note: If ordering QV ballast, voltage must be specified.

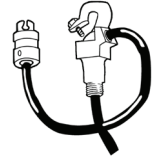
- ☐ **HCP-(X)C-L2320P\*** Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration  
(X) = Cord length in feet (1)  
(1) Per 2002 NEC Code, maximum exposed cord length is 6 feet.

Die-cast aluminum hook with locking screw, 3-conductor rubber jacketed cable (16/3) and heavy-duty, twist-lock plug with proper NEMA configuration for specified voltage pre-wired to ballast.

Hang-straight clip included.

BL, LQ1 and LQ2 require 5-wire version.

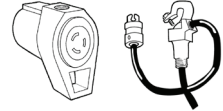
Note: For pendant mount only. Not available on WLLP (FreezerLyte)



- ☐ **H4-HCP-L920P** Pendant Power Hook, 3-Wire (600V) with HCP

- ☐ **H4-HCP-L2320P** Pendant Power Hook, 5-Wire (600V) with HCP  
Note: For pendant mount only. Not available on WLLP (FreezerLyte).

Pendant Mounted Power Hook contains an L9-20R NEMA configured receptacle along with pre-wired HCP. BL, LQ1 and LQ2 require 5-conductor rubber jacketed cable (16/5) HCP with L2320-R plug for 5-wire pendant mounted Power Hook containing an L2320-R configured receptacle.



- ☐ **LCP-(X)C-L(YYY)20P** Loop, Cord and Plug, pre-wired, 20A standard  
(X) = Cord length in feet (1)

(YYY) = 3-Wire NEMA voltage code:

520=120V, 620=208/240V, 720=277V, 820=480V

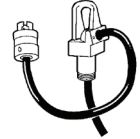
- ☐ **LCP-(X)C-L2320P** Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration  
(X) = Cord length in feet (1)  
(1) Per 2002 NEC Code, maximum exposed cord length is 6 feet.

Note: For pendant mount only. Not available on WLLP (FreezerLyte).

Die cast aluminum loop with locking screw, 3-conductor rubber jacketed cable (16/3) and heavy duty NEMA twist-lock plug pre-wired to ballast.

BL, LQ1 and LQ2 require L2320 option. 5-conductor rubber jacketed cable (16/5)

Note: For pendant mount only. Not available on WLLP (FreezerLyte)

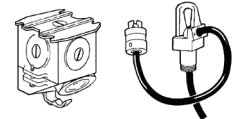


- ☐ **H5-LCP-L920P** Thru-Wire Power Hook, 3-wire (600v) w/LCP

- ☐ **H5-LCP-L2320P** Thru-Wire Power Hook, 5-wire (600v) w/LCP  
Note: For pendant mount only. Not available on WLLP (FreezerLyte).

Power Hook with thru-wire provision contains an L9-20R NEMA receptacle. Prewired with Loop, Cord and Plug.

BL, LQ1 and LQ2 require 5-conductor rubber jacketed cable (16/5) LCP with L2320-R plug for 5-wire Thru-Wire Power Hook containing an L2320-R configured receptacle.



- ☐ **(X)C-L(YYY)20P** Cord and Plug only, 3-wire  
(X) = Cord length in feet (1)

(YYY) = 3-Wire NEMA voltage code:

520=120V, 620=208/240V, 720=277V, 820=480V

Note: If ordering QV ballast, voltage must be specified.

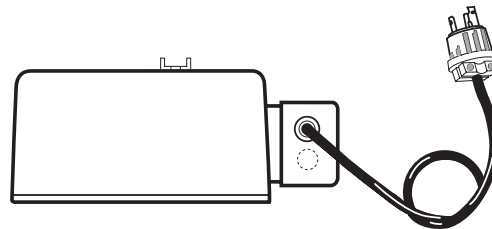
- ☐ **(X)C-L2320P** Cord and Plug, 5-Wire (16/5) NEMA plug configuration  
(X) = Cord length in feet (1)  
(1) Per 2002 NEC Code, maximum exposed cord length is 6 feet.

Note: For pendant mount only. Not available on WLLP (FreezerLyte).

#### For WLLP FreezerLyte Low Profile Mounting Only.

Fixture may be pre-wired with 3-conductor rubber jacketed cable (16/3) with strain relief at knock-out and heavy duty, twist lock plug with proper NEMA configuration for specified voltage.

BL, LQ1 and LQ2 require L2320P option, 5-conductor rubber jacketed cable (16/5).



- ☐ **(X)C** Pre-Wired Cord (Specify length in feet) (1)  
plug configuration

(X) = Cord length in feet (1)

(1) Per 2002 NEC Code, maximum exposed cord length is 6 feet.

#### For WLLP FreezerLyte Low Profile Mounting Only.

Pre-wired fixture is supplied less plug for direct wiring at installation.

### Modular Wiring Options

- ☐ **Factory Installed Modular Wiring**  
Contact factory for assistance.

### Finish

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> <b>WHT</b> = White (Standard) | <input type="checkbox"/> <b>BLK</b> = Black          | <input type="checkbox"/> <b>RAL</b> = (*) Special Tiger Drylac powder coat finish (*).<br>Specify RAL Color |
| <input type="checkbox"/> <b>SA</b> = Satin Aluminum    | <input type="checkbox"/> <b>TBK</b> = Textured Black | Consult factory for assistance in color selection.  |
| <input type="checkbox"/> <b>DB</b> = Dark Bronze       | <input type="checkbox"/> <b>TGN</b> = Textured Green |   |
| <input type="checkbox"/> <b>GR</b> = Gray              |  |   |

### Accessories (field installed)

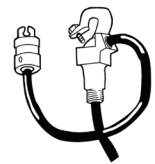
- |   |                              |   |
|---|------------------------------|---|
| <input type="checkbox"/> <b>F1-WL-KIT</b> | Single fuse (120V/277V)      | Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses. Field installed. Must be factory installed when ordered with pre-wired LCP or HCP. |
| <input type="checkbox"/> <b>F2-WL-KIT</b> | Double fuse (208V/240V/480V) |   |



- ☐ **HCP-(X)C-L(YYYY)20P** Hook, Cord and Plug, pre-wired, 20A standard  
(X) = Cord length in feet (1)  
(YYY) = 3-Wire NEMA voltage code:  
520=120V, 620=208/240V, 720=277V, 820=480V
- ☐ **HCP-(X)C-L2320P** Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration  
(X) = Cord length in feet (1)  
(1) Per 2002 NEC Code, maximum exposed cord length is 6 feet.

Die-cast aluminum hook with locking screw, 3-conductor (16/3) rubber jacketed cable and heavy-duty, twist-lock plug with proper NEMA configuration for specified voltage pre-wired to ballast.

BL, LQ1 and LQ2 require 5-wire (L2320) version.  
(Fixture is not wet location listed with this accessory)



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

Pendant Mounted Power Hook contains a 3-conductor (L9-20R) or 5-conductor (L2320R) NEMA configured receptacle and is used specifically with the HCP.

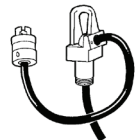
BL, LQ1 and LQ2 require 5-wire (L2320) version.  
(Fixture is not wet location listed with this accessory)



- ☐ **LCP-(X)C-L(YYY)20P\*** Loop, Cord and Plug, pre-wired, 20A standard  
(X) = Cord length in feet  
(YYY) = 3-Wire NEMA voltage code:  
520=120V, 620=208/240V, 720=277V, 820=480V
- ☐ **LCP-(X)C-L2320P\*** Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration

Die-cast aluminum loop with locking screw, 3-conductor (16/3) or 5-conductor (16/5) rubber jacketed cable and heavy-duty, twist-lock plug with proper NEMA configuration for specified voltage.

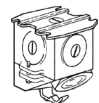
BL, LQ1 and LQ2 require 5-wire (L2320) version.  
(Fixture is not wet location listed with this accessory)



- ☐ **H5** Thru-Wire Power Hook
- ☐ **H5-5W** Thru-Wire Power Hook, 5-wire  
*Note: For pendant mount only. Not available on WLLP (FreezerLyte).*

Power Hook with Thru-Wire provision contains a 3-conductor (L9-20R) or 5-conductor (L2320R) NEMA configured receptacle and is used specifically with the LCP.

BL, LQ1 and LQ2 require 5-wire (L2320) version.  
(Fixture is not wet location listed with this accessory)



### Accessories (field installed)

#### Mounting Extras

☐ **HM\***

*Hook Male (Fixture is not wet location listed with this accessory).*



☐ **LM\***

*Loop Male (Fixture is not wet location listed with this accessory).*



☐ **JA75**

*Joint Aligner (50 lb. maximum allowed)*



☐ **SH75**

*Swivel Hanger (50 lb. maximum allowed, if hung from junction box).*



*Hang Straight Clip  
included with hook or  
loop mounting*



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WL 04/13

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