

Type No. _____

Catalog No. _____

Job. Name _____

LB3 Series

Pendant/Surface Mount LowBay

APPLICATIONS

- Applications include low ceiling applications, light industrial manufacturing facilities, offices, lobbies, conference rooms, food processing plants, auditoriums and gymnasiums.

CONSTRUCTION

- Single piece, die-cast aluminum ballast housing is finned for heat dissipation and positioned above a spun aluminum reflector housing. Components are sealed and gasketed to reduce particulate entry and finished in white UltraClad polyester powder coat, electrostatically applied and oven cured. Standard unit constructed to IP53.

OPTICS

- Low-glare, UV stabilized acrylic refractor is silicone sealed and gasketed to the reflector housing, creating a permanently sealed optical assembly. Wide diameter refractor adds additional lighting control to reduce glare and provide excellent vertical and horizontal illumination. The reflector housing is fully gasketed to the ballast housing and has a safety cable allowing hands-free relamping and access to the ballast compartment. The lamp is partially concealed by the reflector housing to minimize glare.

ELECTRICAL

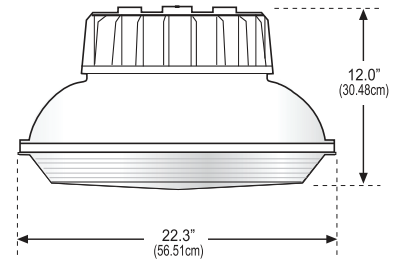
- High power factor constant-wattage autotransformer (CWA) ballast with reliable starting to -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium. 180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8. Ballast is centered in the housing to ensure level orientation when pendant mounted. Require the use medium base lamps for wattages up to 200W.

MOUNTING

- Standard ceiling / quick mount is achieved with a galvanized steel Easy Hanger Plate for mounting to a 4" square or octagonal junction box (by others). Hanger plate supports fixture while wiring connections are made. Pendant mounting is also available. Top of ballast housing is drilled and tapped for 3/4" rigid conduit or hook, cord and plug. Ballast housing is drilled and tapped (two places at 180°) for 3/4" rigid conduit.

WARRANTY/LISTINGS

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



See Page 2 for Ordering Information

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Series	Voltage
Pulse Start Metal Halide	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480
High Pressure Sodium	<input type="checkbox"/> QV ⁽¹⁾
<input type="checkbox"/> LB3P-50 <input type="checkbox"/> LB3P-70 <input type="checkbox"/> LB3P-100 <input type="checkbox"/> LB3P-150 <input type="checkbox"/> LB3P-200 <input type="checkbox"/> LB3S-100 <input type="checkbox"/> LB3S-150	<p>⁽¹⁾ Allows field selection of 120/208/277 voltage. (No 480v)</p> <ul style="list-style-type: none"> Certain options may require voltage selection as well.

Distribution Guide and Ballast Data ⁽¹⁾

Source/ Type (2)	Catalog Number	Lamp Envelope (3)	SP/MH	.ies File name	Ballast Type (4)	ANSI Code	Line Current					Line Watts	LER (5)
							120	208	240	277	480		
PS	LB3P-50	BT/ED17	1.7	ib3p50.ies	HX-PHF	M110/M148	1.2	0.7	0.6	0.5	NA	72	38
	LB3P-70	BT/ED17	1.7	ib3p70.ies	HX-PHF	M98/M143	1.9	1.0	0.9	0.8	0.5	95	47
	LB3P-100	BT/ED17	1.7	ib3p10.ies	HX-PHF (standard) CWA (optional)	M90/M140	2.8 1.1	1.4 NA	1.4 NA	1.2 0.5	0.6 NA	130 128	54 55
	LB3P-150	BT/ED17	1.7	ib3p15.ies	HX-PHF (standard) CWA (optional)	M102/M142	3.7 1.7	2.1 NA	1.8 NA	1.6 1.8	1.0 NA	185 189	60 59
	LB3P-200	BT/ED17	1.7	ib3p20.ies	CWA	M136	2.2	1.3	1.1	1.0	0.5	240	72
HPS	LB3S-50	BT/ED17	1.7	ib3s50.ies	HX-PHF	S68	1.2	0.6	0.6	0.6	NA	76	42
	LB3S-70	BT/ED17	1.7	ib3s70.ies	HX-PHF	S62	1.7	1.0	0.9	0.8	0.4	94	52
	LB3S-100	BT/ED17	1.7	ib3s10.ies	HX-PHF	S54	2.3	1.3	1.1	1.0	0.6	135	57
	LB3S-150	BT/ED17	1.7	ib3s15.ies	HX-PHF	S55	3.2	1.7	1.6	1.4	0.7	195	65

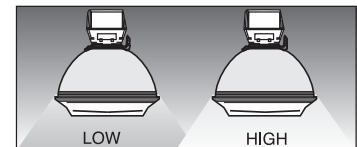
Distribution Guide and Ballast Data Notes:

- The LB3 Series can accommodate other wattages and lamps. Consult factory.
- PS = Pulse Start Metal Halide, HPS = High Pressure Sodium.
- Phosphor lamps recommended for 28" PSMH. Diffuse coated lamps recommended for HPS.
- CWA = Constant Wattage Autotransformer ballast. Supplied for pulse start metal halide in wattages down to 100w. Lower wattage units are supplied with HX-HPF (High Reactance High Power Factor) ballast. As an option, CWA ballast is available for 150w and 100w pulse start metal halide.
- Calculated in accordance with NEMA Standard LE-5B.

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.



☐ **CSR** Hot Quartz Restrike

CSR: Quartz restrike using a current sensing relay. Extinguishes once main HID lamp strikes / restrikes.

☐ **LQ** Hot/Cold Quartz Restrike

LQ: Provides LiteMatic T5HO Quartz auxiliary operation for fixtures with 120V or multi-tap ballasts.

☐ **LQ1** Separately wired (120V) Quartz Restrike
Requires 5-wire.

LQ1: Separately wired, externally controlled Quartz Emergency Lighting from an auxiliary power source.

☐ **LQ2** LQ and LQ1 combined in the same fixture
Requires 5-wire.

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.

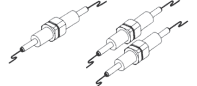
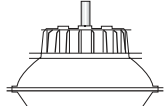
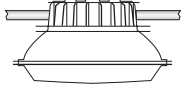
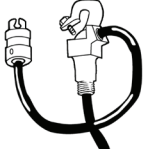
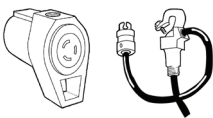
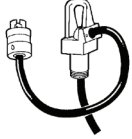
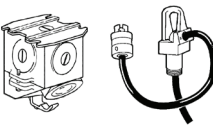


When Arc Extinguished:
After power interruption, auxiliary Quartz lamp is
automatically energized when power is restored and remains
on during run down, restrike and ramp up.

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Options (factory installed)

<input type="checkbox"/> F1	Single fuse (120V/277V, 347V)	Standard unit consists of 1 or 2 KTK 30 amp fuses mounted internally on the ballast plate.	
<input type="checkbox"/> F2	Double fuse (208V/240V/480V) <i>Note: If ordering QV ballast, voltage must be specified.</i>		
<input type="checkbox"/> PM	Pendant Mounting		
<input type="checkbox"/> TW	Thru-Wire Ballast	Thru-wire mounting. Ballast housing is drilled and tapped 3/4" NPT (2 places, 180°) allowing surface mounted feed through conduit. Allows connectors to be performed without the need for a separate outlet box. Easy hanger plate included.	
<input type="checkbox"/> VL	Polycarbonate Lens	Impact-resistant polycarbonate lens is less prone to vandalism. 1-year factory warranty.	
<input type="checkbox"/> 50HZ	50Hz Ballast Operation (Consult Factory)	Specified for applications (outside the U.S.) where 50 Hz operation is standard.	
<input type="checkbox"/> CWA	Low Wattage PSMH CWA Ballast	Provides improved voltage regulation and reduces current draw. 100w and 150w only.	
<input type="checkbox"/> EPXY-CTD	White Epoxy Coated	Durable coating offers protection against mildly acidic or alkaline conditions.	
<input type="checkbox"/> HCP-(X)C-L(YYYY)20P*	Hook, 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	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. BL, LQ1 and LQ2 require 5-wire version. (Fixture is not wet location listed with this option)	
<input type="checkbox"/> HCP-(X)C-L2320P*	Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration		
<input type="checkbox"/> H4-HCP-L920P*	Pendant Power Hook, 3-Wire (600V) with HCP	Pendant Mounted Power Hook contains an L9-20R NEMA configured receptacle along with pre-wired HCP. BL, LQ1 and LQ2 require 5-wire version. (Fixture is not wet location listed with this option)	
<input type="checkbox"/> H4-HCP-L2320P*	Pendant Power Hook, 5-Wire (600V) with HCP		
<input type="checkbox"/> 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	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.	
<input type="checkbox"/> LCP-(X)C-L2320P*	Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration		
<input type="checkbox"/> H5-LCP-L920P*	Thru-Wire Power Hook, 3-wire (600v) w/LCP	Power Hook with thru-wire provision contains an L9-20R NEMA receptacle. Prewired with Loop, Cord and Plug. BL, LQ1 and LQ2 require 5-wire version. (Fixture is not wet location listed with this option)	
<input type="checkbox"/> H5-LCP-L2320P*	Thru-Wire Power Hook, 5-wire (600v) w/LCP		

Accessories (field installed)

<input type="checkbox"/> F1-Kit	Single fuse kit (120V/277V/347V)	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"/> F2-Kit	Double fuse kit (208V/240V/480V)		

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Accessories (field installed)

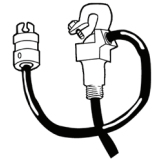
- ☐ **HCP-(X)C-L(YYYY)20P*** Hook, Cord and Plug, pre-wired, 20A standard
(X) = Cord length in feet
(YYY) = 3-Wire NEMA voltage code:

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

- ☐ **HCP-(X)C-L2320P*** Hook, Cord and Plug, 5-Wire (16/5) NEMA plug configuration

Die-cast aluminum hook 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 pre-wired to ballast.

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

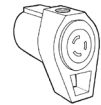


- ☐ **H4** Pendant mounted Power Hook

- ☐ **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)



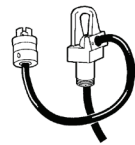
- ☐ **LCP-(X)C-L(YYY)20P*** Loop, Cord and Plug, pre-wired, 20A standard
(X) = Cord length in feet
(YYY) = 3-Wire NEMA voltage code:

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)

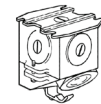


- ☐ **H5** Thru-Wire Power Hook

- ☐ **H5-5W** Thru-Wire Power Hook, 5-wire

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)



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**

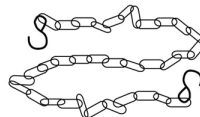
Swivel Hanger (50 lb. maximum allowed, if hung from junction box).



- ☐ **BRC(X)-PF**

Ballast Retainer Chain

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

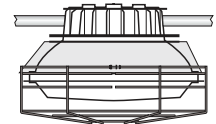


- ☐ **WG-PF/ILX-LB22/LB3**

Wire Guard

Recommended for use in
gymnasiums and similar
facilities.

For maximum endurance in active
environments, the refractor may be
protected with a full wire guard.



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LB3

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