

# Industrial Low Bay (ESB)

## Industrial Low Bay Specification

Industrial low bay luminaire shall consist of a two piece heavy duty die cast aluminum housing designed for most industrial applications. Ballast mounted directly to the ballast housing for cooler operation. Available in 250 to 400 watt high pressure sodium lamp and 175 to 400 watt metal halide lamp. Available with (specify) 120, 208, 240, 277, 480 volt, or 4MT (120,208,240,277V) 60Hz ballast. Luminaire shall be completely pre-wired for ease of installation.

## Basic Product Description

Luminaire is finished in white powder polyester finish with 3/4" threaded hub on top of pendant adapter. The pendant slide on adapter assures plumb alignment for swivel pendant and pre-wired power hook mounting. Labor saving combination through wire and outlet box slide on adapter has key hole slots for direct to junction box installation. Porcelain socket, nickel plated screw shell with lamp grips and spring loaded center contact eliminates lamp loosening.

## Ballast Characteristics

Industrial Low Bay shall contain a long lasting, suitable for 55°C ambient temperature, U.L. recognized High Power Factor (HPF) auto-transformer type ballast with class II insulation. Will start lamps at -20°F (-30°C) for metal halide and -40°F (-40°C) for high pressure sodium. Mercury vapor lamps may be used in 175-400 watt metal halide fixtures. For availability of 220/240V, 50Hz ballast - consult factory.

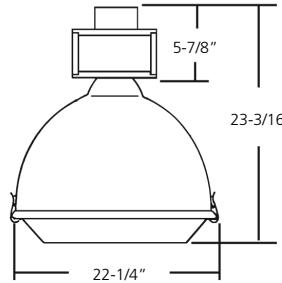
## Reflector Assembly

A heavy duty spun aluminum reflector is finished in high reflectance, high heat white polyester powder coating. An injection molded, U.V. stabilized acrylic drop lens provides low glare and a wide beam symmetrical light distribution (polycarbonate lens available - consult factory). The reflector is hinged and latched for ease of relamping.



Lamp not included

WEIGHT = 20-30 lbs



Accessories/Mounting Brackets,  
see Accessory Page

## Ordering Example

Unit	Wattage	Photometrics	Mounting	Lamp Style	Voltage	Ballast Style	Options
ESB	4	5	7	H	120	H	EDAL-22
Industrial Low Bay	3 - 175	5 - Wide Spread	7- Pendent Mount	H - Metal Halide	120	H - High Power Factor	EDAL-22:
	4 - 250		8- Comb thru wire/outlet box	LS - High Pressure Sodium	208		22" Drop
	6 - 400		mount		240		Acrylic Lens
	200 - 200PS				277		EDPL-22:
	320 - 320PS				480		22"Drop
	350 - 350PS				4MT- (120, 208,		Polycarbonate
	400 - 400PS				240, 277V)		Lens

## Accessories

### F

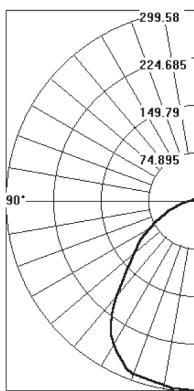
SIF -	Single Inline Fuse (120, 277V)
DIF -	Double Inline Fuse (208, 240, 480V)
FB -	Filter Breather
BSC -	Ballast Safety Cable (6 ft.)
RSC -	Reflector Safety Cable (2 ft.)
EM -	Emergency Quartz Relay and Socket
EM60 -	Emergency Quartz Delay Relay and Socket
QS -	Quartz Socket only - auxiliary power req'd.
DP -	Damp Location
3CPLG -	3' cord w/locking plug
MH 3/4 -	3/4" Male Hook
ML 3/4 -	3/4" Male Loop
MPH 3/4 -	3/4" Power Hook
QB -	Encapsulated ballast for quiet operation
DL -	Energy saver "Dualumen" system

CSA Certification - consult factory.



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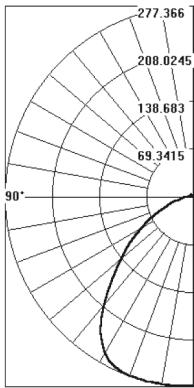
## Photometrics



ZONAL LUMEN SUMMARY												
ZONE	LUMENS			%LAMP		%FIXT						
0-30	239.0			23.9		32.5						
0-40	384.1			38.4		52.2						
0-60	601.0			60.1		81.7						
0-90	715.7			71.6		97.3						
90-120	16.6			1.7		2.3						
90-130	19.7			2.0		2.7						
90-150	20.2			2.0		2.7						
90-180	20.2			2.0		2.7						
0-180	735.9			73.6		100.0						

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD												
	80	70	50	30	10	70	50	30	10	50	30	10
0	87	87	87	87	85	85	85	81	81	81	77	77
1	80	77	74	71	78	75	72	70	72	69	67	68
2	73	68	63	59	71	66	62	58	63	60	57	61
3	68	60	55	50	66	59	54	50	57	52	49	54
4	62	54	48	43	60	53	47	43	51	46	42	49
5	57	49	42	38	56	48	42	37	46	41	37	44
6	53	44	38	33	52	43	37	33	42	37	33	40
7	50	40	34	30	48	39	34	30	38	33	29	37
8	46	37	31	27	45	36	31	27	35	30	26	34
9	43	34	28	24	42	33	28	24	32	27	24	32
10	41	31	26	22	40	31	26	22	30	25	22	29



ZONAL LUMEN SUMMARY												
ZONE	LUMENS			%LAMP		%FIXT						
0-30	230.8			23.1		30.6						
0-40	379.8			38.0		50.3						
0-60	614.5			61.5		81.4						
0-90	733.6			73.4		97.2						
90-120	17.4			1.7		2.3						
90-130	21.1			2.1		2.8						
90-150	21.4			2.1		2.8						
90-180	21.4			2.1		2.8						
0-180	755.0			75.5		100.0						

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD												
	80	70	50	30	10	70	50	30	10	50	30	10
0	89	89	89	89	87	87	87	83	83	83	79	79
1	82	79	76	73	80	77	74	72	73	71	69	70
2	75	69	65	60	73	68	63	60	65	61	58	62
3	69	61	56	51	67	60	55	50	58	53	49	55
4	63	55	49	44	62	54	48	43	52	47	43	50
5	59	49	43	38	57	48	42	38	47	41	37	45
6	54	45	38	34	53	44	38	33	42	37	33	41
7	50	41	34	30	49	40	34	30	39	33	29	37
8	47	37	31	27	46	36	31	27	35	30	26	34
9	44	34	28	24	43	34	28	24	33	27	24	32
10	41	32	26	22	40	31	25	22	30	25	22	29