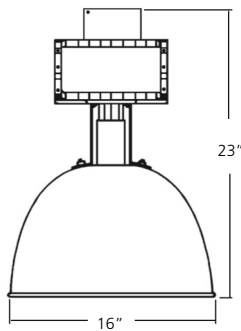


Economy Star Bay 16 (ESB)



Damp location listed
Lamp not included

WEIGHT = 15-28 lbs



Accessories/Mounting Brackets,
see Accessory Page

Economy Star Bay Specification

Star Bay 16 versatile high bay luminaire shall consist of a 16" aluminum reflector, two piece heavy duty die cast aluminum ballast housing, designed for most industrial applications. Ballast mounted directly to the ballast housing for cooler operation. Available in 150 to 400 watt high pressure sodium lamp and 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 and shipped in one carton.

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 adaptor has keyhole slots for direct to junction box installation. Porcelain socket will contain a lamp grip, nickel plated spring loaded center contact, eliminating lamp loosening.

Ballast Characteristics

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

Reflector Assembly

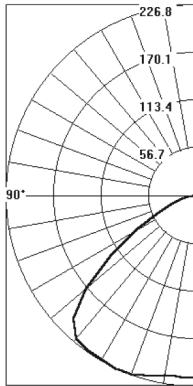
A heavy duty spun aluminum anodized finished reflector with rolled bottom edge for extra strength. Provides a I.E.S. type V wide beam distribution for illumination without glare, shadowing, or stark contrasts.

Ordering Example

Unit	Wattage	Photometrics	Mounting	Lamp Style	Voltage	Ballast Style	Options
ESB	6	5	7	H	208	H	OU
Economy Star Bay	2 - 150 4 - 250 (HPS) 6 - 400 200 - 200PS** 320 - 320PS** 350 - 350PS** 400 - 400PS**	5 - Wide Beam	7 - Pendant Mount 8 - Combination thru wire outlet box	H - Metal Halide LS - High Pressure Sodium	120 208 240 277 480 4MT- (120, 208, 240, 277V) RBH - Remote Ballast*	H - High Power Factor	OU - Open Uplight
Accessories							
DF							
SIF - Single Inline Fuse (120,277)							
DIF - Double Inline Fuse (208,240,480)							
BSC - Ballast Safety Cable (6 foot)							
RSC - Reflector Safety Cable (2 foot)							
EM - Emergency Quartz Relay and Socket							
EM60 - Emergency Quartz Delay Relay and Socket							
QS - Quartz Socket only - auxiliary power required							
DP - Damp Location							
3CPLG - 3' cord w/locking plug							
WG - Wire Guard							
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							
*Consult Factory							
**Requires protected lamp and special socket							
CSA Certification - consult factory.							

Economy Star Bay 16 (ESB)

Photometrics



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	188.4	18.8	27.8
0-40	329.6	33.0	48.7
0-60	598.8	59.9	88.4
0-90	677.0	67.7	100.0
90-120	0	0.0	0.0
90-130	0	0.0	0.0
0-180	677.0	67.7	100.0

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	68	68	68	68
1	75	72	69	67	73	70	68	66	67	65	64	65	63	62	62	61	60	62	61	60	59
2	68	63	59	56	67	62	58	55	60	56	54	58	55	52	56	53	51	56	53	51	50
3	63	56	51	47	61	55	50	46	53	49	46	51	48	45	49	47	44	49	47	44	43
4	57	50	44	40	56	49	44	40	47	43	39	46	42	39	44	41	38	44	41	38	37
5	53	45	39	34	51	44	38	34	42	38	34	41	37	34	40	36	33	40	36	33	32
6	49	40	34	30	48	39	34	30	38	33	30	37	33	29	36	32	29	36	32	29	38
7	45	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	33	29	26	24
8	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	28	24	21	19
10	37	28	22	19	36	27	22	19	27	22	19	26	22	19	25	22	19	25	22	19	17

Catalog Number: ESB-657LS-XXXH-OU
Lamp: Clear High Pressure Sodium

Reflector: Formed open bottom 16" dia.
aluminum reflector

Lumens: Per 1,000 lamp lumens

Efficiency: 67.7%

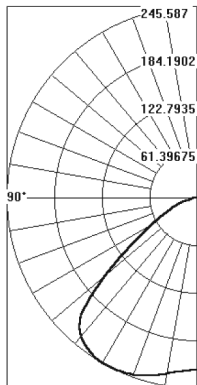
CIE Type: Semi-Direct

Luminaire Spacing Criteria: 1.6

Candela & Lumen values are based on 1,000 lamp lumens. For other lamp lumen ratings, multiply candela and lumen values by the number: Lumens divided by 1,000.

Per 1,000 Lamp Lumens

DEG	CANDELA	LUMENS
0	217.4	
5	216.4	20.6
15	222.2	63.0
25	226.8	104.8
35	225.0	141.2
45	207.4	158.4
55	122.6	110.8
65	52.2	52.6
75	19.4	21.0
85	3.8	4.6
90	0.8	



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	202.1	20.2	30.1
0-40	353.5	35.4	52.7
0-60	604.4	60.4	90.0
0-90	671.5	67.1	100.0
90-120	0	0.0	0.0
90-130	0	0.0	0.0
0-180	671.5	67.1	100.0

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	80	80	80	80	78	78	78	78	75	75	75	72	72	72	69	69	69	67	67	67	67
1	74	72	69	67	73	70	68	66	67	66	64	65	63	62	62	61	60	62	61	60	59
2	68	64	60	56	67	62	59	56	60	67	64	68	55	53	56	54	52	56	54	52	51
3	63	57	52	48	61	56	51	47	54	50	46	52	48	46	50	47	45	50	47	45	44
4	58	50	45	41	56	50	45	41	48	44	40	46	43	40	45	42	39	45	42	39	38
5	53	45	40	36	52	45	39	35	43	39	35	42	38	35	41	37	34	41	37	34	33
6	49	41	35	31	48	40	35	31	39	34	31	38	34	30	37	33	30	37	33	30	29
7	46	37	31	28	45	37	31	27	36	31	27	35	30	27	34	30	27	34	30	27	26
8	43	34	28	25	42	33	28	24	32	28	24	32	27	24	31	27	24	31	27	24	23
9	40	31	26	22	39	31	25	22	30	25	22	29	25	22	28	25	22	28	25	22	20
10	37	29	23	20	36	28	23	20	28	23	20	27	23	20	26	22	20	26	22	20	18

Catalog Number: ESB-657H-XXXH-OU
Lamp: Clear Metal Halide

Reflector: Formed open bottom 16" dia.
aluminum reflector

Lumens: Per 1,000 lamp lumens

Efficiency: 67.1%

CIE Type: Semi-Direct

Luminaire Spacing Criteria: 1.6

Candela & Lumen values are based on 1,000 lamp lumens. For other lamp lumen ratings, multiply candela and lumen values by the number: Lumens divided by 1,000.

Per 1,000 Lamp Lumens

DEG	CANDELA	LUMENS
0	221.2	
5	224.1	21.5
15	237.1	67.4
25	245.3	113.2
35	241.8	151.5
45	213.0	159.1
55	100.0	91.8
65	45.0	45.0
75	16.8	17.6
85	3.2	4.4
90	1.0	

