

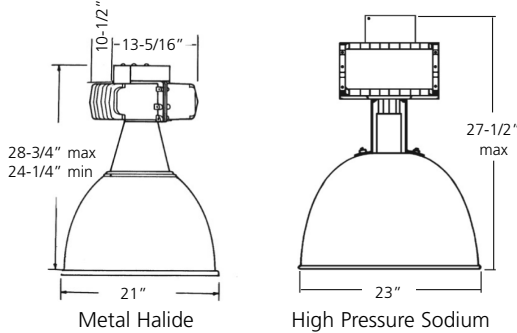
Industrial Star Bay 21/23 (ISB)



ISB shown with optional downlight
Lamp not included

ISB shown with optional bottom enclosure

WEIGHT = 15-28 lbs



Accessories/Mounting Brackets, see Accessory Page

Industrial Star Bay Specification

Industrial Star Bay 21/23 versatile high bay luminaire shall consist of a 21" (metal halide) or 23" (high pressure sodium) 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 1000 watt high pressure sodium lamp and 1000 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.

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 adaptor 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 Industrial 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 1000 watt metal halide fixtures. For availability of 220/240V 50Hz ballasts - consult factory.

Reflector Assembly

A heavy duty spun aluminum anodized finished reflector. Provides IES type IV medium or 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 |
|---------------------|----------|----------------------------------|---|---|--|-----------------------|--|
| ISB | 8 | 5 | 7 | H | 208 | H | OU |
| Industrial Star Bay | 8 - 1000 | 4 - Medium Beam 5 - Wide Beam | 7 - Pendent 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 OD - Open Downlight EN - Enclosed Gasketed |

Accessories

DF

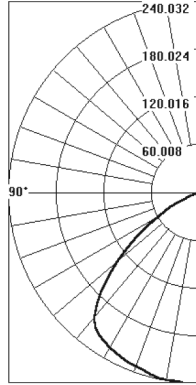
- SIF - Single Inline Fuse (120,277)
- DIF - Double Inline Fuse (208,240,480)
- FB - Filter Breather
- BSC - Ballast Safety Cable (6 foot)
- RSC - Reflector Safety Cable (2 foot)
- EM - Emergency Quartz Relay and Socket
- EM60 - Emergency Quartz Delay Relay and Socket
- QS - Quartz Socket only - auxiliary 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

CSA Certification - consult factory.

Industrial Star Bay 21/23 (ISB)

Photometrics



| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|-------|-------|
| ZONE | LUMENS | %LAMP | %FIXT |
| 0-30 | 195.8 | 19.6 | 33.4 |
| 0-40 | 325.3 | 33.2 | 56.7 |
| 0-60 | 550.0 | 55.0 | 93.9 |
| 0-90 | 585.0 | 58.6 | 100.0 |
| 0-180 | 0.0 | 0.0 | 0.0 |
| 0-180 | 585.8 | 58.6 | 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 | 0 | | | |
| 0 | 70 | 70 | 70 | 70 | 68 | 68 | 68 | 68 | 65 | 65 | 65 | 62 | 62 | 62 | 60 | 60 | 60 | 59 |
| 1 | 65 | 63 | 61 | 59 | 64 | 62 | 60 | 58 | 59 | 58 | 56 | 57 | 56 | 55 | 55 | 54 | 53 | 52 |
| 2 | 60 | 56 | 53 | 50 | 59 | 55 | 52 | 50 | 53 | 51 | 49 | 51 | 49 | 48 | 50 | 48 | 46 | 45 |
| 3 | 56 | 50 | 46 | 43 | 54 | 50 | 46 | 43 | 48 | 45 | 42 | 46 | 44 | 41 | 45 | 43 | 41 | 39 |
| 4 | 51 | 45 | 41 | 37 | 50 | 44 | 40 | 37 | 43 | 39 | 37 | 42 | 39 | 36 | 41 | 38 | 36 | 34 |
| 5 | 47 | 41 | 36 | 33 | 46 | 40 | 36 | 32 | 39 | 35 | 32 | 38 | 34 | 32 | 37 | 34 | 31 | 30 |
| 6 | 44 | 37 | 32 | 29 | 43 | 36 | 32 | 29 | 35 | 31 | 28 | 34 | 31 | 28 | 34 | 30 | 28 | 27 |
| 7 | 41 | 34 | 29 | 26 | 40 | 33 | 29 | 25 | 32 | 28 | 25 | 31 | 28 | 25 | 31 | 27 | 25 | 24 |
| 8 | 38 | 31 | 26 | 23 | 37 | 30 | 26 | 23 | 30 | 26 | 23 | 29 | 25 | 23 | 28 | 25 | 22 | 21 |
| 9 | 36 | 28 | 24 | 21 | 35 | 28 | 24 | 21 | 27 | 23 | 20 | 27 | 23 | 20 | 26 | 23 | 20 | 19 |
| 10 | 33 | 26 | 22 | 19 | 33 | 26 | 21 | 19 | 25 | 21 | 19 | 25 | 21 | 19 | 24 | 21 | 18 | 17 |

Catalog Number: ISB-847LS-XXXH-EN
Lamp: Clear High Pressure Sodium

Reflector: Clear flat glass 23" dia. enclosure
in metal trim frame, 3/4" spacer

Lumens: Per 1,000 lamp lumens

Efficiency: 58.6%

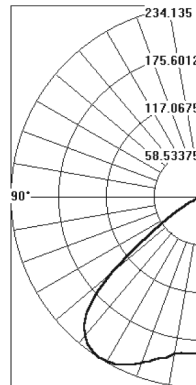
CIE Type: Direct

Luminaire Spacing Criteria: 1.4

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 | 239.7 | |
| 5 | 239.7 | 22.8 |
| 15 | 237.1 | 67.0 |
| 25 | 229.7 | 106.0 |
| 35 | 219.0 | 136.6 |
| 45 | 172.7 | 132.7 |
| 55 | 94.6 | 84.8 |
| 65 | 28.7 | 29.7 |
| 75 | 5.1 | 5.8 |
| 85 | 0.5 | 0.6 |
| 90 | | |



| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|-------|-------|
| ZONE | LUMENS | %LAMP | %FIXT |
| 0-30 | 182.1 | 18.2 | 32.0 |
| 0-40 | 327.5 | 32.7 | 57.4 |
| 0-60 | 547.2 | 54.7 | 96.0 |
| 0-90 | 570.0 | 57.0 | 100.0 |
| 90-180 | 0.0 | 0.0 | 0.0 |
| 0-180 | 570.0 | 57.0 | 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 | 0 | | | |
| 0 | 68 | 68 | 68 | 68 | 66 | 66 | 66 | 66 | 63 | 63 | 63 | 61 | 61 | 61 | 58 | 58 | 58 | 57 |
| 1 | 63 | 61 | 60 | 58 | 62 | 60 | 58 | 57 | 58 | 56 | 55 | 56 | 55 | 53 | 54 | 53 | 52 | 51 |
| 2 | 59 | 55 | 52 | 49 | 57 | 54 | 51 | 49 | 52 | 50 | 48 | 50 | 48 | 47 | 49 | 47 | 46 | 44 |
| 3 | 54 | 49 | 45 | 42 | 53 | 48 | 45 | 42 | 47 | 44 | 41 | 45 | 43 | 41 | 44 | 42 | 40 | 39 |
| 4 | 50 | 44 | 40 | 37 | 49 | 44 | 40 | 36 | 42 | 39 | 36 | 41 | 38 | 36 | 40 | 37 | 35 | 34 |
| 5 | 46 | 40 | 35 | 32 | 45 | 39 | 35 | 32 | 38 | 34 | 32 | 37 | 34 | 31 | 36 | 33 | 31 | 30 |
| 6 | 43 | 36 | 32 | 28 | 42 | 36 | 31 | 28 | 35 | 31 | 28 | 34 | 30 | 28 | 33 | 30 | 27 | 26 |
| 7 | 40 | 33 | 28 | 25 | 39 | 32 | 28 | 25 | 31 | 28 | 25 | 31 | 27 | 25 | 30 | 27 | 24 | 23 |
| 8 | 37 | 30 | 25 | 22 | 36 | 30 | 25 | 22 | 29 | 25 | 22 | 28 | 25 | 22 | 27 | 24 | 22 | 21 |
| 9 | 35 | 27 | 23 | 20 | 34 | 27 | 23 | 20 | 26 | 23 | 20 | 26 | 22 | 20 | 25 | 22 | 20 | 19 |
| 10 | 32 | 25 | 21 | 18 | 32 | 25 | 21 | 18 | 24 | 21 | 18 | 24 | 20 | 18 | 23 | 20 | 18 | 17 |

Catalog Number: ISB-847H-XXXH-EN
Lamp: Clear Metal Halide

Reflector: Clear flat glass 21" dia. enclosure
in metal trim frame, 1/2" spacer

Lumens: Per 1,000 lamp lumens

Efficiency: 57.0%

CIE Type: 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 | 192.7 | |
| 5 | 193.2 | 18.4 |
| 15 | 205.0 | 58.6 |
| 25 | 227.4 | 105.1 |
| 35 | 232.5 | 145.3 |
| 45 | 199.4 | 150.0 |
| 55 | 73.0 | 69.8 |
| 65 | 17.2 | 18.1 |
| 75 | 3.7 | 4.2 |
| 85 | 0.4 | 0.6 |
| 90 | | |

