

# Prism Bay 22 (ESB)

## Prism Bay 22 Specification

Prism Bay 22 versatile high bay luminaire shall consist of a 22" acrylic reflector/refractor, two piece heavy duty die cast aluminum ballast housing, designed for most industrial and commercial applications. Ballast mounted directly to the ballast housing for cooler operation. Available in 250 to 400 watt high pressure sodium lamp or 175-400 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.

## 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 Prism Bay shall contain a long lasting, suitable for 55°C (40°C enclosed) ambient temperature, U.L. recognized High Power Factor, constant wattage 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.

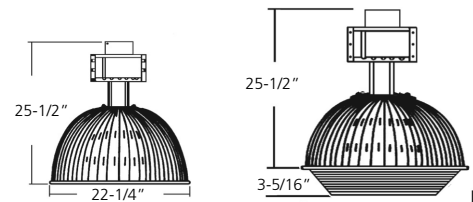
## Reflector/Refractor Assembly

The acrylic seamless reflector/refractor provides a IES type V wide beam distribution. For polycarbonate reflector/refractor, consult factory. The refractor can be supplied open or enclosed. A flat acrylic clear lens is also available.



Lamp not included

WEIGHT = 17-30 lbs



Form AO & FL

Form AC

For 175W & 250W Metal Halide lamps - form AC only

Accessories/Mounting Brackets, see Accessory Page

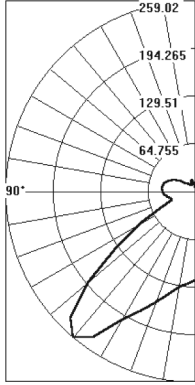
## Reflexor<sup>®</sup> by LEXALITE<sup>®</sup>

| Ordering Example  |   |                |   |  |  |                       |   |
|---|---|----------------|---|--|--|-----------------------|---|
| Unit ESB  | Wattage 6   | Photometrics 5 | Mounting 7  | Lamp Style H                                     | Voltage 208  | Ballast Style H       | Refractor AO22  |
| Prism Bay   | 3 - 175**<br>4 - 250**<br>6 - 400<br>200 - 200PS<br>320 - 320PS**<br>350 - 350PS**<br>400 - 400PS | 5 - Wide Beam  | 7 - Pendant Mount<br>8 - Combination thru wire outlet box | H - Metal Halide<br>LS - High Pressure Sodium    | 120<br>208<br>240<br>277<br>480<br>4MT- (120, 208, 240, 277V)<br>RBH - Remote Ballast* | H - High Power Factor | AO - Open (250W max)<br>AC - Drop Lens (250W max)<br>FL - Flat Lens (250W max)<br>CL - Conical Lens |
|   |   |                |   | <b>Accessories</b>                               |  |                       |   |
|   |   |                |   | <b>SIF</b>                                       |  |                       |   |
|   |   |                |   | 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)            |  |                       |   |
|   |   |                |   | DP - Damp Location                               |  |                       |   |
|   |   |                |   | 3CPLG - 3' cord w/locking plug                   |  |                       |   |
|   |   |                |   | FWG 22 - Full Wire Guard 22"                     |  |                       |   |
|   |   |                |   | WG - Wire Guard (AO only)                        |  |                       |   |
|   |   |                |   | MH 3/4 - 3/4" Male Hook                          |  |                       |   |
|   |   |                |   | ML 3/4 - 3/4" Male Loop                          |  |                       |   |
|   |   |                |   | MPH 3/4 - 3/4" Power Hook                        |  |                       |   |
|   |   |                |   | EM - Emergency Quartz Relay and Socket           |  |                       |   |
|   |   |                |   | EM60 - Emergency Quartz Delay Relay and Socket   |  |                       |   |
|   |   |                |   | QS - Quartz Socket only-auxiliary power required |  |                       |   |
|   |   |                |   | FL - Flat Acrylic Clear lens                     |  |                       |   |
|   |   |                |   | QB - Encapsulated ballast for quiet operation    |  |                       |   |
|   |   |                |   | DL - Energy saver "Dualumen" system              |  |                       |   |
| *Consult Factory  |   |                |   |  |  |                       |   |
| **Requires protected lamp and special socket or enclosed reflector with lens. |   |                |   |  |  |                       |   |
| CSA Certification - consult factory.  |   |                |   |  |  |                       |   |



# Prism Bay 22 (ESB)

## Photometrics



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0-30   | 144.0  | 14.4  | 15.0  |
| 0-40   | 301.6  | 30.2  | 31.4  |
| 0-60   | 623.4  | 61.9  | 64.5  |
| 0-90   | 766.3  | 76.6  | 79.8  |
| 90-120 | 140.0  | 14.0  | 14.6  |
| 90-130 | 163.7  | 16.4  | 17.1  |
| 90-150 | 182.3  | 18.2  | 19.0  |
| 90-180 | 193.6  | 19.4  | 20.2  |
| 0-180  | 960.0  | 96.0  | 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 | 50 | 30 | 10 | 0  |  |  |   |
| 0  | 110 | 110 | 110 | 110 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 88 | 88 | 88 | 80 | 80 | 80 | 77 |  |  |   |
| 1  | 100 | 95  | 91  | 87  | 95  | 91  | 87  | 84  | 83 | 80 | 77 | 76 | 74 | 72 | 70 | 68 | 66 | 63 |  |  |   |
| 2  | 91  | 83  | 77  | 72  | 87  | 80  | 74  | 70  | 74 | 69 | 65 | 68 | 64 | 61 | 62 | 59 | 57 | 54 |  |  |   |
| 3  | 83  | 74  | 66  | 60  | 79  | 71  | 64  | 58  | 65 | 50 | 55 | 60 | 55 | 52 | 55 | 52 | 48 | 46 |  |  |   |
| 4  | 76  | 65  | 57  | 51  | 73  | 63  | 56  | 50  | 58 | 52 | 47 | 54 | 49 | 45 | 50 | 45 | 42 | 39 |  |  |   |
| 5  | 70  | 58  | 50  | 44  | 67  | 56  | 48  | 43  | 52 | 45 | 40 | 48 | 42 | 38 | 44 | 40 | 36 | 34 |  |  |   |
| 6  | 64  | 51  | 43  | 37  | 61  | 49  | 42  | 36  | 46 | 39 | 34 | 43 | 37 | 32 | 39 | 34 | 31 | 28 |  |  |   |
| 7  | 58  | 45  | 37  | 31  | 55  | 44  | 36  | 30  | 40 | 34 | 29 | 37 | 32 | 27 | 34 | 30 | 26 | 24 |  |  |   |
| 8  | 53  | 40  | 32  | 26  | 51  | 39  | 31  | 26  | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 22 | 20 |  |  |   |
| 9  | 49  | 36  | 28  | 22  | 46  | 34  | 27  | 22  | 32 | 25 | 21 | 29 | 24 | 20 | 27 | 22 | 18 | 16 |  |  |   |
| 10 | 45  | 32  | 24  | 19  | 43  | 31  | 23  | 18  | 28 | 22 | 17 | 26 | 20 | 16 | 24 | 19 | 15 | 14 |  |  |   |

Catalog Number: ESB-657LS-XXXH-AO-22  
Lamp: Clear High Pressure Sodium

Reflector: Formed open bottom 22" dia. acrylic reflector/refractor.

Lumens: Per 1,000 lamp lumens

Efficiency: 96%

CIE Type: Semi-Direct

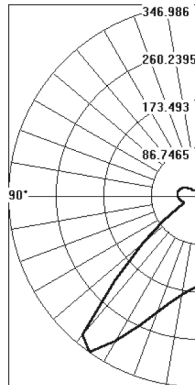
Luminaire Spacing Criteria: 1.9

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   | 125.6 |       |
| 5   | 132.0 | 12.8  |
| 15  | 152.4 | 43.5  |
| 25  | 188.0 | 87.6  |
| 35  | 253.5 | 157.7 |
| 45  | 254.1 | 192.2 |
| 55  | 139.1 | 125.6 |
| 65  | 56.7  | 58.0  |
| 75  | 37.3  | 39.7  |
| 85  | 45.2  | 49.1  |
| 90  | 47.7  |       |
| 95  | 49.2  | 53.3  |
| 105 | 46.2  | 49.0  |
| 115 | 38.0  | 37.6  |
| 125 | 26.6  | 23.8  |
| 135 | 15.0  | 12.0  |
| 145 | 10.6  | 6.7   |
| 155 | 16.0  | 7.2   |
| 165 | 11.0  | 3.6   |
| 175 | 5.3   | 0.7   |
| 180 | 4.0   |       |



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0-30   | 196.4  | 19.6  | 21.2  |
| 0-40   | 409.8  | 41.0  | 44.2  |
| 0-60   | 655.2  | 65.5  | 70.6  |
| 0-90   | 763.6  | 76.4  | 82.3  |
| 90-120 | 114.7  | 11.5  | 12.4  |
| 90-130 | 136.1  | 13.6  | 14.7  |
| 90-150 | 154.0  | 15.4  | 16.6  |
| 90-180 | 164.0  | 16.4  | 17.7  |
| 0-180  | 927.4  | 92.7  | 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 | 0  |  |  |   |
| 0  | 107 | 107 | 107 | 107 | 102 | 102 | 102 | 102 | 94 | 94 | 94 | 86 | 86 | 86 | 80 | 80 | 80 | 76 |  |  |   |
| 1  | 98  | 93  | 90  | 86  | 93  | 90  | 86  | 83  | 83 | 80 | 78 | 77 | 74 | 73 | 71 | 69 | 68 | 65 |  |  |   |
| 2  | 90  | 83  | 78  | 73  | 86  | 80  | 75  | 71  | 74 | 70 | 67 | 69 | 66 | 63 | 64 | 62 | 59 | 57 |  |  |   |
| 3  | 83  | 75  | 68  | 63  | 80  | 72  | 66  | 61  | 67 | 62 | 58 | 62 | 58 | 55 | 58 | 55 | 52 | 50 |  |  |   |
| 4  | 77  | 67  | 60  | 55  | 74  | 65  | 58  | 53  | 61 | 55 | 51 | 57 | 52 | 49 | 53 | 49 | 46 | 44 |  |  |   |
| 5  | 71  | 61  | 53  | 48  | 68  | 59  | 52  | 47  | 55 | 49 | 45 | 51 | 57 | 52 | 49 | 53 | 49 | 39 |  |  |   |
| 6  | 66  | 54  | 47  | 41  | 63  | 53  | 46  | 41  | 49 | 43 | 39 | 46 | 41 | 37 | 44 | 39 | 36 | 34 |  |  |   |
| 7  | 60  | 49  | 41  | 36  | 58  | 47  | 40  | 35  | 44 | 38 | 34 | 42 | 36 | 32 | 39 | 35 | 31 | 29 |  |  |   |
| 8  | 55  | 44  | 36  | 31  | 53  | 42  | 35  | 30  | 40 | 34 | 29 | 37 | 32 | 28 | 35 | 30 | 27 | 25 |  |  |   |
| 9  | 51  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 35 | 28 | 25 | 33 | 28 | 24 | 31 | 27 | 23 | 21 |  |  |   |
| 10 | 47  | 35  | 28  | 23  | 45  | 34  | 27  | 22  | 32 | 26 | 22 | 30 | 24 | 21 | 28 | 23 | 20 | 18 |  |  |   |

Catalog Number: ESB-657H-XXXH-AO-22  
Lamp: Phosphor Coated Metal Halide

Reflector: Formed open bottom 22" dia. acrylic reflector/refractor.

Lumens: Per 1,000 lamp lumens

Efficiency: 92.7%

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   | 164.0 |       |
| 5   | 171.0 | 16.7  |
| 15  | 200.6 | 57.6  |
| 25  | 261.7 | 122.2 |
| 35  | 347.1 | 213.4 |
| 45  | 215.4 | 172.0 |
| 55  | 80.1  | 73.5  |
| 65  | 30.6  | 32.1  |
| 75  | 33.0  | 35.0  |
| 85  | 37.7  | 41.2  |
| 90  | 38.5  |       |
| 95  | 39.0  | 42.4  |
| 105 | 37.7  | 39.8  |
| 115 | 33.0  | 32.5  |
| 125 | 24.2  | 21.3  |
| 135 | 14.0  | 11.0  |
| 145 | 11.0  | 7.0   |
| 155 | 12.7  | 5.8   |
| 165 | 12.0  | 3.4   |
| 175 | 7.1   | 0.8   |
| 180 | 8.0   |       |

