

Low Bay Multi-Bay Series

ORDERING INFORMATION

Catalog Number: Example: MBL22400MAJ-1

| | | | | | |
|-----------------------------|-------------------------------------|---|--|---|--|
| MBL | | | | | |
| FIXTURE | | | | OPTIONS | VOLTAGE |
| MBL- Enclosed Low Bay | REFLECTOR SIZE 22-22" | WATTAGE 150-150W 175-175W* 200-200W* 250-250W* 320-320W 350-350W 400-400W 450-450W | LAMP SOURCE MA-Metal Halide (HPF-CWA)* LX-High Pressure Sodium (HPF-CWA) LR-Linear Reactor pulse start Metal Halide 277V only** PMA-Super constant wattage auto regulated pulse start Metal Halide* | F-Fusing G-Fusing J-Wiring K-Wiring L-Hot/Cold start M-Switch-on auxiliary Z-Bi-Level | 1-120V 2-208V 3-240V 4-277V 5-480V 8-120V 208V 240V 277V |

*175W, 200W, 250W Available in Enclosed Metal Halide only.
** Requires open-rated lamp or enclosed optics.

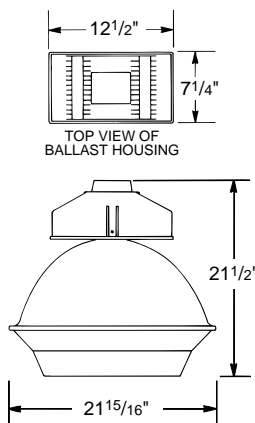


PRODUCT SPECIFICATIONS

- Low Bay applications include aisles, corridors, warehouses, assembly areas, and stockrooms, providing tight light control preventing glare.
- Universal light-weight, easy to handle die-cast aluminum ballast housing finished in Duraplex II gray polyester powder, permits full flow-through ventilation.
- Capacitors are nested within integral "outboard" pods, vented "air-flow" construction isolates heat-sensitive capacitors from heat-generating core.
- Rigid heavy gauge aluminum reflector with high reflectant white polyester powder finish on interior and exterior.
- High impact UV stabilized acrylic refractor with linear and horizontal spread prisms, designed to optimize wide spread distribution.
- Unique ballast housing design includes integral roomy splice box with cover and quick mounting plate.
- Rugged die-cast mounting plate tapped 3/4"-14 NPS, accepts 3/4" pipe or 714S, 715NEW, and 725S hooks.
- Unit slips onto mounting plate leaving both hands free for wiring.
- Deluxe glazed porcelain lamp socket pulse-rated for 4KV.
- For use in open air ambient.

TECHNICAL INFORMATION

Multi-Bay Low Bay use mogul base clear lamps. Lamps available but not supplied with fixture. High Pressure Sodium 150W units use E23-1/2, 250W and 400W units uses E18. Metal Halide 175W units use BT28, 250W units use BT28, and 400W units use E/BT37. Low Bay units for use in open air applications only, up to 45° Celsius ambient.



OPTION DETAILS

- F-** Heavy duty fuse in external holder for 120V, 277V, single
- G-** Heavy duty fuse in external holder for 208V, 240V, 480V, double
- J-** 3' 3-conductor approved cable (16-3) with 15 amp Twist plug with proper NEMA configuration, includes open-loop hook.
- K-** 3' 3-conductor approved cable (16-3) with 20 amp Twist plug with proper NEMA configuration, includes open-loop hook.
- L-** Hot and cold start auxiliary interior 250W Bayonet base, used until HID lamp reaches 70% of brightness.
- M-** Switch-on auxiliary internal 150W DC Bayonet base, operating from secondary 120V source when HID circuit is "knocked out" by momentary voltage drop.
- Z-** Bi-Level high/low switching of HID lamps for maximum energy savings.

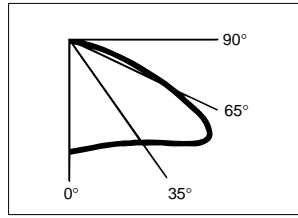
Accessories - See page 4-A



UL Damp Location Listed.
UL File Number: E86021

PHOTOMETRICS

See page 4-C for complete CU tables



MBL22400MA
 Lamp: 400W Metal Halide, Clear
 Lumens: 34,000
 I.T.L. Report #28708
 Total Luminaire Efficiency = 85.1%
 Spacing Criterion = 1.7

MBL22250MA
 Lamp: 250W Metal Halide, Clear
 Lumens: 20,500
 I.T.L. Report #28719
 Total Luminaire Efficiency = 84.1%
 Spacing Criterion = 1.8

MBL22400 LX
 Lamp: 400W H.P. Sodium, Clear
 Lumens: 50,000
 I.T.L. Report #28707
 Total Luminaire Efficiency = 79.2%
 Spacing Criterion = 1.9

MBL22250LX
 Lamp: 250W H.P. Sodium, Clear
 Lumens: 27,500
 I.T.L. Report #28709
 Total Luminaire Efficiency = 82.5%
 Spacing Criterion = 1.9

| CAN. PWR. DISTRIBUTION | | |
|------------------------|------|--------|
| Deg. | CP | Lumens |
| 0 | 5590 | |
| 5 | 5500 | 524 |
| 15 | 5730 | 1624 |
| 25 | 6070 | 2779 |
| 35 | 5740 | 3671 |
| 45 | 6750 | 5260 |
| 55 | 7950 | 6913 |
| 65 | 3860 | 3954 |
| 75 | 1710 | 1827 |
| 85 | 800 | 899 |
| 90 | 540 | |
| 95 | 470 | 508 |
| 105 | 350 | 370 |
| 115 | 360 | 342 |
| 125 | 280 | 231 |
| 135 | 40 | 40 |
| 145 | 20 | 0 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | 0 |

| CAN. PWR. DISTRIBUTION | | |
|------------------------|------|--------|
| Deg. | CP | Lumens |
| 0 | 4060 | |
| 5 | 4000 | 381 |
| 15 | 4040 | 1153 |
| 25 | 4220 | 1954 |
| 35 | 4630 | 2892 |
| 45 | 5180 | 3859 |
| 55 | 3220 | 2931 |
| 65 | 1660 | 1673 |
| 75 | 1010 | 1066 |
| 85 | 460 | 512 |
| 90 | 320 | |
| 95 | 260 | 289 |
| 105 | 220 | 222 |
| 115 | 210 | 199 |
| 125 | 90 | 86 |
| 135 | 30 | 20 |
| 145 | 0 | 0 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | 0 |

| CAN. PWR. DISTRIBUTION | | |
|------------------------|-------|--------|
| Deg. | CP | Lumens |
| 0 | 8160 | |
| 5 | 8140 | 777 |
| 15 | 8340 | 2369 |
| 25 | 9070 | 4163 |
| 35 | 9350 | 5904 |
| 45 | 10670 | 8202 |
| 55 | 9210 | 8120 |
| 65 | 4400 | 4488 |
| 75 | 2330 | 2455 |
| 85 | 1090 | 1194 |
| 90 | 750 | |
| 95 | 620 | 677 |
| 105 | 480 | 508 |
| 115 | 480 | 447 |
| 125 | 270 | 235 |
| 135 | 50 | 40 |
| 145 | 10 | 3 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | 0 |

| CAN. PWR. DISTRIBUTION | | |
|------------------------|------|--------|
| Deg. | CP | Lumens |
| 0 | 4640 | |
| 5 | 4630 | 442 |
| 15 | 4740 | 1345 |
| 25 | 5130 | 2352 |
| 35 | 5410 | 3423 |
| 45 | 6340 | 4866 |
| 55 | 5330 | 4719 |
| 65 | 2340 | 2428 |
| 75 | 1330 | 1394 |
| 85 | 600 | 676 |
| 90 | 400 | |
| 95 | 350 | 371 |
| 105 | 260 | 275 |
| 115 | 260 | 243 |
| 125 | 140 | 122 |
| 135 | 30 | 24 |
| 145 | 0 | 0 |
| 155 | 0 | 0 |
| 165 | 0 | 0 |
| 175 | 0 | 0 |
| 180 | 0 | 0 |

SUGGESTED SPECIFICATIONS

Fixture shall be WIDE-SPREAD DISTRIBUTION. (MBL22250LX, 83% efficient, 1.9 spacing to mounting height ratio) (MBL22400LX, 79% efficient 1.9 spacing to mounting height ratio) (MBL22250MA, 84% efficient, 1.8 spacing to mounting height ratio) (MBL22400MA, 85% efficient, 1.7 spacing to mounting height ratio). Enclosed and UL listed for Damp Locations.

Ballast housing shall be die-cast aluminum finished in dark architectural bronze, with integral outboard pods containing capacitors isolated from the constant wattage high power factor autotransformer (CWA). The open air space between the transformer enclosure and integral capacitor pods shall provide for "VENTED AIR FLOW" isolating and protecting the capacitors from ballast core heat.

Reflector shall be rigid heavy gauge anodized aluminum with high reflectant white polyester powder finish on interior and exterior, specifically designed to optimize clear lamp performance. Reflector shall mount to ballast housing with two plated bolts. "Air Flow" open cell foam poly gasketing at reflector bottom shall cushion the acrylic lens enclosure and prevent dust particles from entering the lamp compartment which is cooled by the air flow.

Refractor shall be clear high impact U.V. stabilized acrylic with linear and horizontal prisms specifically designed to optimize wide spread distribution while controlling glare. Refractor shall be secured to reflector by four plated (4) cam action latches with heavy duty safety cable allowing "two-hand" maintenance.

Lamp socket shall be premium glazed porcelain with plated "Lamp Grip" screw shell to prevent arcing and premature lamp failure due to vibration. High pressure sodium sockets are pulse rated to 4KV starting voltage. Socket and lamp (not included) are scientifically positioned to minimize arc tube voltage rise to 4 volts maximum.

21-15/16" diameter x 21-1/2" shallow unit shall contain unique conduit adapter mounting plate and wiring access cover such that "two-hand" wiring may be completed after fixture is mounted on appropriate support.

Fixture shall be ballasted for 60 Hz (specify voltage) with "NON-PCB" capacitors and shall be as manufactured by Stonco (specify Cat. No.).