

Mini High Bay

Value & Performance — You Deserve Both.

| | |
|--------------|--|
| Project: | |
| Catalog#: | |
| Approved by: | |




Proudly
Designed & Assembled
IN THE USA*



Applications

Warehouse Cafeteria Gymnasium
Manufacturing Facility Auditorium

Description

MHB series highbay fixture offers quality lighting for wide ranging applications and delivers excellent energy savings compared to fluorescent and HID fixtures. This fixture series is available in multiple lumen outputs and is configurable with various options to meet your needs.

Features

- Full body construction (white finish)
- Premium LEDs
- Available in 4000K and 5000K with CRI>80
- Over 70% lumen maintenance at 100,000 hours
- Suitable for ambient temperature up to 55°C (131°F) for MHBA and MHBD models. Temperature rating is configuration dependent and detail is provided under performance table on page 3.
- Power Factor (PF) >0.9
- Total Harmonic Distortion (THD) ≤ 20%
- Driver standard with 0 – 10V dimming
- Inbuilt surge protection
- Ideally suited for suspension mounting with optional wire cable hanging kit or chain and V-clips
- Access plate on back of the fixture for quick and easy wiring
- Available options:
 - Clear and Frosted Lens
 - Wireguard
 - Choose Option -D or -M for Title 24 compliance in California
 - Factory Installed Cord/Cordset
- UL Listed for Damp Locations
- Warranty: 5 years

Benefits

- Designed for long LED life
- Energy saving compared to HID and fluorescent systems
- Exceptional color rendering
- High system efficacy up to 166 Lm/W
- System Designed, Manufactured, Tested, and Approved by Howard Industries in Mendenhall, Mississippi
- Compliant with safety and performance standards

Dimensions

MHB A,B & C Length: 16", Width: 14", Depth: 3.5"

MHB D,E & F Length: 30", Width: 14", Depth: 3.5"



Model Selection Guide

| Model # | Lumen Output | Suggested | | |
|-------------|-------------------|-----------------|-----------------------------------|-----------------|
| | | Mounting Height | Fluorescent Replacement | HID Replacement |
| MHBA | 15,500 | 15' - 25' | 6- Lamp - T8 32W | 250W |
| MHBB | 22,500 | 20' - 30' | 4-Lamp T5 HO 54W 8-Lamp T8 32W | 400W |
| MHBC | 29,500 | 25' - 40' | 6-Lamp T5 HO 54W | |
| MHBD | | 30' - 50' | 8-Lamp T5 HO 54W | 750W |
| MHBE | 10-Lamp T5 HO 54W | | 1000W | |
| MHBF | | | | |



Visit www.designlights.org
for the Qualified Product List



Installation
Instructions



Zip File

*Foreign and domestic components.

Specifications subject to change without notice.

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Ordering Information

| Series | Configuration | Color | Lens | Input Voltage | Options | Cord Set Options |
|-----------------------------|---|--|---|--|---|---|
| MHB | C | 4K | 0 | MV | M | 05 |
| MHB Mini High Bay | A: 15,500 Lumens, 95W B: 22,500 Lumens, 150W C': 29,500 Lumens, 195W D: 29,500 Lumens, 185W E: 46,000 Lumens, 320W F': 56,500 Lumens, 385W | 4K: 4000K 5K: 5000K | 0: No Lens C: Clear Acrylic Lens F: Frosted Acrylic Lens | MV: 120-277V AX: 480V | (Blank): No FIOs A²: Occ. Sensor (on/off only; 120/277V or 480V as required; contact factory for 208/240V) B³: Emergency Battery Backup (up to 1800 lm) D⁴: Dimming Occ. Sensor (remote capable; 120/277V or 480V as required; contact factory for 208/240V) M⁴: Microwave Sensor (120/277V) G: Wire Guard S: Surge Protection (20kV) J: Pendant Mount J-Box U⁵: Adjustable Output Unit (AOU) | (Blank): Standard Disconnect 01: 6' SJT 18/3 (no plug) 02: 10' SJT 18/3 (no plug) 03: 6' SJT 18/3 L5-15 twist lock 120V 05: 6' SJT 18/3 5-15 non twist lock 120V 07: 6' SJT 18/3 L7-15 twist lock 277V 09: 6' SJT 7-15 non twist lock 277V |

¹Lens configurations with MHBC and MHBF Series fixtures are not recommended for ambient temperature above 35°C (95°F). Lens options for these fixtures are NOT offered in 480V construction. ²Not pre-assembled to fixture. ³Cord set options are not offered with emergency battery backup option due to an unswitched AC power source requirements for the emergency module. Lumen output is dependent on lens configuration. Lumen output is reduced by up to 20% with a frosted lens. Option -S is not connected to protect the emergency driver, it is connected to protect the rest of the fixture. ⁴Choose option -D, or -M for Title 24 compliance in California. ⁵AOU is a factory installed, passive 8-position, 0-10V step-dimmer that can be easily adjusted with a flat-blade screwdriver. The unit comes factory set at "#8" which is the maximum output level. Approximate wattage input percentages are shown in the table below. The unit consumes negligible standby power and can be removed to convert the luminaire to standard 0-10V dimming. DO NOT combine option -M & -U or -D & -U.

AOU Position Selector Guide

| Input Power* (in percentage of original power) | #8 | #7 | #6 | #5 | #4 | #3 | #2 | #1 |
|---|------|-----|-----|-----|-----|-----|-----|-----|
| | 100% | 92% | 81% | 70% | 59% | 49% | 39% | 28% |

*Input power provided for estimation purposes only. Actual usage may vary by ±3%.

Accessory Guide

| Compatible Models | Model Number | Description |
|-----------------------------|-----------------|--|
| MHB-A, B, C | MHB-CLF | Clear Acrylic Lens w/Steel Frame. |
| | MHB-FLF | Frosted Acrylic Lens w/Steel Frame. |
| | MHB-WG | Wire Guard for use with fixtures with a lens and frame preinstalled. |
| | MHB-WGF | Wire Guard with Steel Frame for use with fixture without a lens. |
| MHB-D, E, F | MHB2-CLF | Clear Acrylic Lens w/Steel Frame. |
| | MHB2-FLF | Frosted Acrylic Lens w/Steel Frame. |
| | MHB2-WG | Wire Guard for use with fixtures with a lens and frame preinstalled. |
| | MHB2-WGF | Wire Guard with Steel Frame for use with fixture without a lens. |
| MHB-A, B, C, D, E, F | HF-WCH3 | Wire Cable Hanging Kit (2 pcs/kit, 5 foot long). |
| | HF-2CV | Hanging Chains (2 foot) and V-clips |
| | HF-3CV | Hanging Chains (3 foot) and V-clips |
| | HLP-OS-FSIR-100 | Wireless handheld configuration tool for Watt Stopper Sensors (option "D" sensors) |

Emergency Battery Backup



| Model Number | Light Engines illuminated | ~ Lumen Output |
|------------------------|---------------------------|----------------|
| MHBA & MHBD | 2 Engines | 1800 lm |
| MHBB, MHBC, MHBE, MHBF | 1 Engine | |

Adjustable Output Unit



Dimensions: Length: 2.0", Width: 1.3", Depth: 0.8"

Additional Product Images



MHB Performance Details

| Configuration | | | Lumen Output | | Input Power (W) | Efficacy (lm/W) | Max. Ambient Temperature | L70 (hours) | L90 (hours) | DLC | | | |
|---------------|---------|----------|--------------|--------------|-----------------|-----------------|---|-------------|-------------|----------|--|--------------|---------------|
| | | | 5000K; 83CRI | 4000K; 83CRI | | @5000K CCT | | | | | | | |
| MHBA | No-Lens | 120-277V | 15,857 | 15,572 | 95 | 166 | 55°C (131°F) | 198k | 55k | Premium | | | |
| | Clear | | 13,721 | 13,475 | | 144 | | 185k | 54k | | | | |
| | Frosted | | 13,143 | 12,907 | | 138 | | 198k | 55k | | | | |
| | No-Lens | 480V | 15,965 | 15,678 | 99 | 161 | | 175k | 51k | | | 500K Premium | 400K Standard |
| | Clear | | 13,814 | 13,567 | | 139 | | | | | | | |
| | Frosted | | 13,233 | 12,995 | | 133 | | | | | | | |
| MHBB | No-Lens | 120-277V | 23,013 | 22,600 | 149 | 154 | 50°C (122°F) | 170k | 49k | Premium | | | |
| | Clear | | 19,914 | 19,438 | | 133 | | 125k | 37k | | | Standard | |
| | Frosted | | 19,075 | 18,657 | | 128 | | 155k | 45k | | | | |
| | No-Lens | 480V | 23,170 | 22,754 | 155 | 149 | | 120k | 34k | Standard | | | |
| | Clear | | 20,050 | 19,690 | | 129 | | | | | | | |
| | Frosted | | 19,205 | 18,860 | | 123 | | | | | | | |
| MHBC | No-Lens | 120-277V | 29,905 | 29,443 | 194 | 154 | 45°C (113°F) | 145k | 42k | Premium | | | |
| | Clear | | 25,083 | 24,608 | | 129 | Not recommended for ambient above 35°C (95°F) | 110k | 34k | | | Standard | |
| | Frosted | | 24,034 | 23,579 | | 123 | | | | | | | |
| | No-Lens | 480V | 30,187 | 29,644 | 202 | 149 | 40°C (104°F) | 142k | 41k | Premium | | | |
| MHBD | No-Lens | 120-277V | 29,917 | 29,380 | 185 | 162 | 55°C (131°F) | 198k | 55k | Premium | | | |
| | Clear | | 26,087 | 25,619 | | 141 | | 185k | 54k | | | | |
| | Frosted | | 24,875 | 24,428 | | 134 | | 198k | 55k | | | | |
| | No-Lens | 480V | 30,152 | 29,611 | 195 | 155 | | 175k | 51k | | | Standard | |
| | Clear | | 26,292 | 25,820 | | 135 | | | | | | | |
| | Frosted | | 25,070 | 24,620 | | 129 | | | | | | | |
| MHBE | No-Lens | 120-277V | 46,779 | 46,035 | 320 | 146 | 50°C (122°F) | 170k | 49k | Premium | | | |
| | Clear | | 40,791 | 40,055 | | 127 | | 125k | 37k | | | Standard | |
| | Frosted | | 38,894 | 38,121 | | 122 | | 155k | 45k | | | | |
| | No-Lens | 480V | 47,245 | 46,397 | 337 | 140 | | 120k | 34k | Standard | | | |
| | Clear | | 41,197 | 40,458 | | 122 | | | | | | | |
| MHBF | No-Lens | 120-277V | 57,533 | 56,501 | 384 | 150 | 45°C (113°F) | 145k | 42k | Premium | | | |
| | Clear | | 50,168 | 49,268 | | 131 | Not recommended for ambient above 35°C (95°F) | 110k | 34k | | | Standard | |
| | Frosted | | 47,836 | 46,978 | | 125 | | | | | | | |
| | No-Lens | 480V | 57,985 | 56,944 | 405 | 143 | 40°C (104°F) | 142k | 41k | Premium | | | |