

# 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.

## Benefits

- Designed for long LED life
- Energy saving compared to HID and fluorescent systems
- Exceptional color rendering
- High system efficacy up to 159 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"

## Features

- Full body construction (white finish)
- Premium LEDs
- Available in 4000K and 5000K with CRI>80
- Over 70% lumen maintenance at 85,000 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
  - Choose Option -D or -M for Title 24 compliance in California
  - Factory Installed Cord/Cordset
  - Wireguard (Sold separately as an accessory)
- UL Listed for Damp Locations
- Warranty: 5 years

## Model Selection Guide

Model #	Lumen Output	Suggested		
		Mounting Height	Fluorescent Replacement	HID Replacement
<b>MHBA</b>	15,250	15' - 25'	6- Lamp - T8 32W	250W
<b>MHBB</b>	22,500	20' - 30'	4-Lamp T5 HO 54W 8-Lamp T8 32W	400W
<b>MHBC</b>	28,500	25' - 40'	6-Lamp T5 HO 54W	
<b>MHBD</b>	30,500		30' - 50'	8-Lamp T5 HO 54W
<b>MHBE</b>	46,500	10-Lamp T5 HO 54W		1000W
<b>MHBF</b>	56,000			

\*Foreign and domestic components.

Specifications subject to change without notice.

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Visit [www.designlights.org](http://www.designlights.org) for the Qualified Product List



Zip File



Installation Instructions

**Ordering Information**

Series	Configuration	Color	Lens	Input Voltage	Options	Cord Set Options
MHB	C	4K	0	MV	M	05
<b>MHB</b> Mini High Bay	<b>A:</b> 15,250 Lumens, 95W  <b>B:</b> 22,500 Lumens, 155W  <b>C<sup>1</sup>:</b> 28,500 Lumens, 195W  <b>D:</b> 30,500 Lumens, 190W  <b>E:</b> 46,500 Lumens, 310W  <b>F<sup>1</sup>:</b> 56,000 Lumens, 385W	<b>4K:</b> 4000K  <b>5K:</b> 5000K	<b>0:</b> No Lens  <b>C:</b> Clear Acrylic Lens  <b>F:</b> Frosted Acrylic Lens	<b>MV:</b> 120-277V  <b>AX:</b> 480V	<b>(Blank):</b> No FIOs  <b>A<sup>2</sup>:</b> Occ. Sensor (on/off only; 120/277V or 480V as required; contact factory for 208/240V)  <b>B<sup>3</sup>:</b> Emergency Battery Backup (up to 1800 lm)  <b>D<sup>4</sup>:</b> Dimming Occ. Sensor (remote capable; 120/277V or 480V as required; contact factory for 208/240V)  <b>M<sup>4</sup>:</b> Microwave Sensor (remote capable; 120/277V)  <b>G<sup>5</sup>:</b> Wire Guard  <b>S:</b> Surge Protection (20kV)  <b>J:</b> Pendant Mount J-Box  <b>U<sup>6</sup>:</b> Adjustable Output Unit (AOU)	<b>(Blank):</b> Standard Disconnect  <b>01:</b> 6' SJT 18/3 (no plug)  <b>02:</b> 10' SJT 18/3 (no plug)  <b>03:</b> 6' SJT 18/3 L5-15 twist lock 120V  <b>05:</b> 6' SJT 18/3 5-15 non twist lock 120V  <b>07:</b> 6' SJT 18/3 L7-15 twist lock 277V  <b>09:</b> 6' SJT 7-15 non twist lock 277V

<sup>1</sup>Lens 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. <sup>2</sup>Not pre-assembled to fixture. <sup>3</sup>Cord 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. <sup>4</sup>Choose option -D, or -M for Title 24 compliance in California. One remote is required per site to change default settings. <sup>5</sup>Factory installed wire guard option is not DLC Listed. <sup>6</sup>AOU 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.

**Rapid Ship Models**

- MHBA5K0MV
- MHBB5K0MV
- MHBC5K0MV

Available to ship next day

**Rapid Ship Cords**

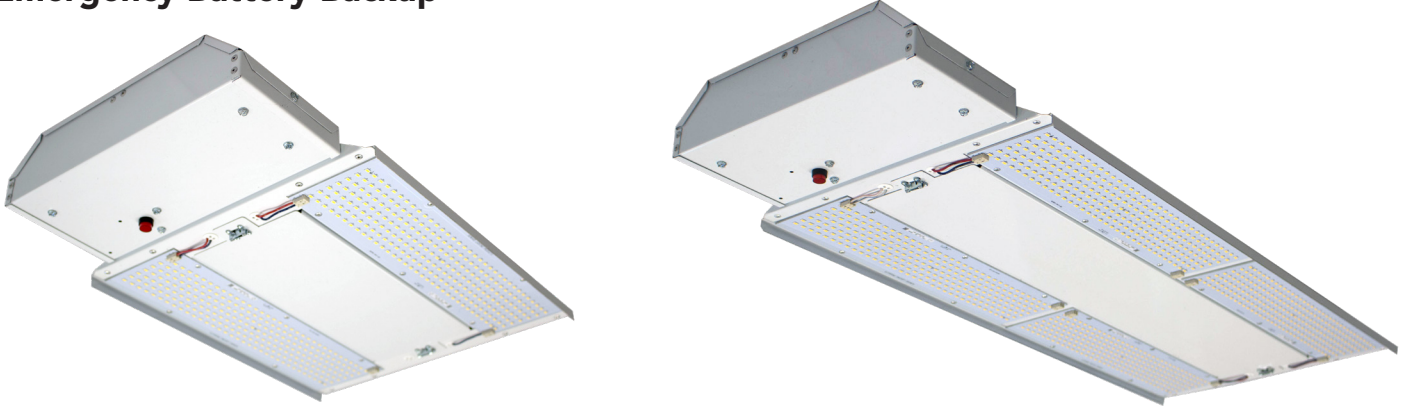
- CO-01AP
- CS-03AP
- CO-02AP
- CS-07AP
- CO-02AP
- CS-05AP

These items come with strain relief bushing and access plate. Available to ship next day.

**Accessory Guide**

Compatible Models	Model Number	Description
<b>MHB-A, B, C</b>	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.
<b>MHB-D, E, F</b>	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.
<b>MHB-A, B, C, D, E, F</b>	HF-WCH3	Wire Cable Hanging Kit (2 pcs/kit, 5 foot long).
	HF-2CV / HF-3CV	Hanging Chains (2 foot) and V-clips / Hanging Chains (3 foot) and V-clips
	HLP-OS-FSIR-100	Wireless handheld configuration tool for Watt Stopper Sensors (option "D" sensors)
	HLP-MH10	Wireless handheld configuration tool for Microwave Sensor (option "M" sensors)

**Emergency Battery Backup**



Model Number	Light Engines illuminated	~ Lumen Output
MHBA & MHBD	2 Engines	<b>1800 lm</b>
MHBB, MHBC, MHBE, MHBF	1 Engine	

**Adjustable Output Unit**



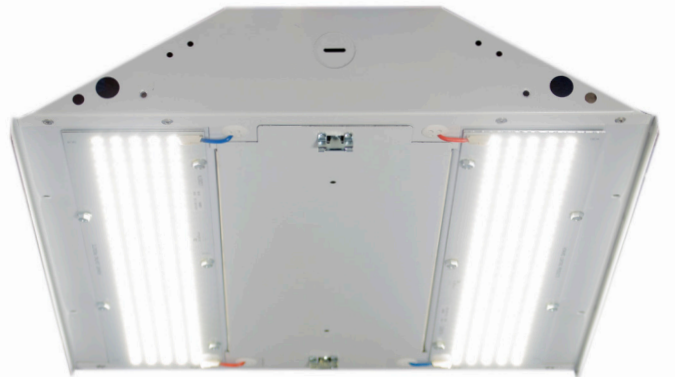
**Dimensions:** Length: 2.0", Width: 1.3", Depth: 0.8"

**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%.

**Additional Product Images**



**MHB Performance Details**

**RS:** Rapid ship models available to ship next day

Configuration			Lumen Output		Input Power (W)	Efficacy (lm/W)	Max. Ambient Temperature	L70 (hours)	L90 (hours)	DLC Status <small>Visit <a href="http://www.designlights.org">www.designlights.org</a> for the Qualified Product List</small>
			5000K; 83CRI	4000K; 83CRI		@5000K CCT				
MHBA	No-Lens	120-277V	15140 <b>RS</b>	15440	95	159	55°C (131°F)	200K	55K	Standard
	Clear		12960	13210		136				
	Frosted		12210	12450		128				
	No-Lens	480V	15170	15470	99	153				
	Clear		12980	13230		131				
	Frosted		12230	12470		123				
MHBB	No-Lens	120-277V	22420 <b>RS</b>	22600	157	143	50°C (122°F)	155k	42k	
	Clear		19100	19330		123		110k	30k	
	Frosted		17960	18220		116		145k	40k	
	No-Lens	480V	22200	22640	162	137		100k	28k	
	Clear		19000	19370		117		Not Listed		
	Frosted		17900	18250		111				
MHBC	No-Lens	120-277V	28180 <b>RS</b>	28680	193	146	45°C (113°F)	135k	37k	
	Clear		23370	23850		122	Not recommended for ambient above 35°C (95°F)	85k	22k	
	Frosted		22050	22500		115				
	No-Lens	480V	28230	28790	202	140	40°C (104°F)	120k	33k	

MHBD	No-Lens	120-277V	30250	30850	190	159	55°C (131°F)	200K	55K	Standard
	Clear		25880	26390		136				
	Frosted		24390	24870		128				
	No-Lens	480V	30310	30900	199	152				
	Clear		25930	26440		130				
	Frosted		24430	24910		123				
MHBE	No-Lens	120-277V	46030 <b>RS</b>	46930	309	149	50°C (122°F)	155k	42k	
	Clear		38310	39070		124		110k	30k	
	Frosted		35700	36400		115		145k	40k	
	No-Lens	480V	46110	47020	323	143		100k	28k	
	Clear		38380	39140		119				
MHBF	No-Lens	120-277V	55620 <b>RS</b>	56580	384	145	45°C (113°F)	120k	33k	
	Clear		46140	47100		121	Not recommended for ambient above 35°C (95°F)	85k	22k	
	Frosted		42980	43880		112		Not Listed		
	No-Lens	480V	55960	57060	403	139	40°C (104°F)	120k	33k	