

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				

*Foreign and domestic components.

Specifications subject to change without notice.

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Visit www.designlights.org for the Qualified Product List



Installation
Instructions



Zip File

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			5000K Premium	4000K 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			