

Vaporproof High Bay LED
VHL4 Series




Proudly
Designed & Assembled
IN THE USA*



Applications

- Entrance Lighting
- Food Processing
- Parking Structures
- Car Washes
- Beverage Industry
- Public Access
- Pickling and Galvanizing Facilities
- Construction Sites

Features

- High output LEDs provide 80+ CRI
- L70 is theoretically calculated to be greater than 120,000 hrs
- Standard: Multi-volt (120 - 277V) input
- 0 -10V Dimmable LED Driver
- Minimum starting temperature: -40°C (-40°F)
- Suitable for ambient temperatures up to 55°C (131°F) for -100- configuration and 45°C (113°F) for other configurations.
- UL Listed
- 5 Year Warranty
- System Designed, Manufactured, Tested, and Approved in Mendenhall, Mississippi

Installation

- Shipped fully wired with driver
- Easy access to wiring compartment and driver via removable gear tray
- NEC compliant luminaire power disconnect standard
- **Mounting Straps:**
Mounting Straps available in Zinc Plated High Strength Steel (Standard) or 316 Stainless Steel (FIO: Option V).
Suitable for cable mounts, ceiling mounts, and even dual pendant mounting (FIO: Option V)
- **Mounting Hardware:**
Standard: Two versatile 316 Stainless Steel V-Hook mounting brackets
Optional: Zinc Plated or 316 Stainless Steel Rigid Mounting Beam
Optional: 316 Stainless Steel Flexible Ceiling Mount
Optional: Wire Hanging Kit



Visit www.designlights.org for the Qualified Product List

Project:	
Catalog#:	
Approved by:	

Description

VHL4 series vaporproof high bay is engineered for performance down to the smallest detail. It is fully gasketed to provide total protection from dust and moisture penetration. It withstands corrosion, splashing water, hose-directed water, and damage from external ice formation.

Benefits

- Energy saving compared to fluorescent systems
- Exceptional color rendering
- Available in multiple color options
- High system efficacy
- Long LED life

Housing

- One-piece fiberglass upper body; no seams to crack, break, or leak; is rugged and corrosion resistant
- Innovative driver heat rail provides stronger backbone for the housing, easier driver mounting, and allows the drivers to operate up to 13°C cooler
- 5VA Flammability Rating
- Acetal Copolymer White Plastic Latches (Standard) [See Note 1]
- 316 Stainless steel hardware for maximum durability (Optional) [See Note 1]
- Twelve newly designed 3-piece captive latches provide optimal lens retention and will not come off the fixture [See Note 1]
- Polyethylene molded end plugs for use as knockouts
- Pressure wash up to 1500 PSI [See Note 2]

Gasket

- Closed cell polyester gasket
- Poured gasket seamlessly fills channel for maximum seal
- Gasket has dry skin that will not stick to the mating surface
- High gasket compression recovery ensures a solid seal over life of fixture

Diffuser

- Injection molded for maximum strength and precise detail
- Frosted ends and lineal prisms on sides reduce glare
- Continuous formed perimeter provides a positive seal
- **Materials:**
Option A: 100% Virgin Impact Resistant Acrylic Long lasting clarity and resistance to weathering
Option F: Frosted lens 100% Impact Resistant Acrylic [See Note 3]
Option P: UV Stabilized Polycarbonate Maximum impact resistance

Notes:

- 1) If fixtures are to be used in a food processing application where chemicals, high temperature and high pressure is used to clean fixtures, we recommend the use of Stainless Steel Latches. Failure to use Stainless Steel Latches in a food processing application could cause failures with plastic latches. Howard Industries is not responsible for misapplication of latch selection for vapor proof fixtures.
- 2) All installed fittings must be both of appropriate type and be installed to the manufacture's specifications.
- 3) Frosted lens Option F diffuses LEDs for a clean and smooth appearance.

*Foreign and domestic components.

Ordering Information

Model	Lens	Configuration	CCT	Input Volts	Factory Installed Options	Cordset Options (discuss with customer service)
VHL4	A: Clear Impact Resistant Acrylic	100: 14,000 Lumens, 100W	40: 4000K	U: 120-277V	(blank): White Plastic Latches A: Occ. Sensor B*: Emergency Battery Backup C: Lens Tether Safety Cable D: Dimming Occupancy Sensor M: End Mount Bracket R#: 1/2" Rigid Conduit Connector Hub S⁵: Stainless Steel Latches V⁵: Stainless Steel Mounting Strap	(blank): Standard Disconnect 01: 6', no plug 02: 10', no plug 03: 6' SJT 18/3 L5-15 twist lock 120V 04: 10' SJT 18/3 L5-15 twist lock 120v 05: 6' SJT 18/3 5-15 non-twist lock 120v 06: 10' SJT 18/3 5-15 non-twist lock 120v 07: 6' SJT 18/3 L7-15 twist lock 277V 08: 10' SJT 18/3 L7-15 twist lock 277V 17: 18/3, no plug spec len
	F: Frosted Impact Resistant Acrylic	150: 20,000 Lumens, 150W				
	P: Clear UV Stabilized Polycarbonate	200: 27,500 Lumens, 205W	50: 5000K			
		225: 29,500 Lumens, 225W				

Installed on one end of fixture.

\$ If all stainless steel exterior hardware is required, use FIO Order Options S & V.

* Max. ambient rating with emergency battery pack is 45°C (113°F) for 100W and 150W models. 40°C (104°F) for 200W model, and 35°C (95°F) for 225W model. 7W max. output, approximately 900 lumens. Not suitable for ambient temperature below 0°C (32°F).

"Performance Table" on page 3

Sample Ordering Information

VHL4F22550U

Vaporproof High Bay LED
Frosted Acrylic Lens
29,500 Lumens, 225 Watts
5,000K Color
No Factory Installed Options
Standard Disconnect

Note:

VHL4 comes standard with 12 white plastic latches, 4 zinc-plated mounting straps, and 2 versatile V-hook mounting brackets
Optional: Wire Hanging Kit (sold separately)
Optional: 316 Stainless Steel Flexible Ceiling Mount (sold separately)
Optional: 316 Stainless Steel Rigid Mounting Beam (sold separately)
Optional: 316 Stainless Steel Exterior Hardware (Options S & V)

Options/Features Available

Latches*



White Secure Locking Plastic Latch*
12 per fixture (Standard)



316 Stainless Steel Latch* (FIO: Option S)

Mounting Strap



Zinc Plated (Standard)
VHA2-MS-ZP
4 per fixture

Optional:
316 Stainless Steel (FIO Option V)
VHA2-MS-SS

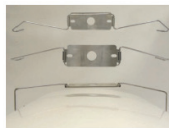
Mounting Options



V-hook
316 Stainless Steel
2 per fixture (Standard)



Rigid Mounting Beam (Optional)
2 per fixture required
Zinc Plated VHA2-MB-ZP
316 Stainless Steel VHA2-MB-SS



Flexible Ceiling Mount
VHA1-CM
316 Stainless Steel
2 per fixture
Fits both VHA1 & VHA2

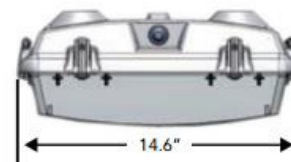


End Mount Bracket
(clip not included)

Field Installed Options

Model #	Description
VHA2-MB-ZP	Rigid Mounting Beam - Zinc Plated
VHA2-MB-SS	Rigid Mounting Beam - 316 Stainless Steel
VHA1-CM	Flexible Ceiling Mount - 316 Stainless Steel
HF-WCH	Wire Cable Hanging Kit 5ft.
HF-WCH-SS	Stainless Steel Wire Cable Hanging Kit 5ft.
VHL4-R-HUB	1/2" Rigid Conduit Connector Hub (1 Pc.).
VHA1-ACR-LENS	Clear Acrylic Replacement Lens
VHA1-FR-ACR-LENS	Frosted Acrylic Replacement Lens
VHA1-POLY-LENS	Polycarbonate Replacement Lens

Dimensions



*Note: If fixtures are to be used in a food processing application where chemicals, high temperature and high pressure is used to clean fixtures, we recommend the use of Stainless Steel Latches. Failure to use Stainless Steel Latches in a food processing application could cause failures with plastic latches. Howard Industries is not responsible for misapplication of latch selection for vapor proof fixtures.

Performance Table

Model	Correlated Color Temp. (CCT)	Lumen Output (Lm)	Efficacy (Lumen/Watt)	Electrical Characteristics	DLC Classification	DLC Product ID	
VHL4-F-100	4000K	13615	134	Wattage: 102W Max. Current Draw 0.94A @120V 0.41A @277V	Premium	P94EV4L6	
	5000K	14235	140			PPQVGEQ8	
VHL4-A-100	4000K	13835	136			POXMMML0K	
	5000K	14465	142			PPVDA8T1	
VHL4-P-100	4000K	13755	135			P9SLIITA	
	5000K	14385	141			PBK2HM4W	
VHL4-F-150	4000K	19715	129		Wattage: 153W Max. Current Draw 1.38A @120V 0.61A @277V	Standard	PDRLCD4E
	5000K	20615	134			Premium	P9AQ18CH
VHL4-A-150	4000K	20030	131			Standard	P4U52YFW
	5000K	20945	137			Premium	P5L21JMN
VHL4-P-150	4000K	19920	130			Standard	P0F6UQQC
	5000K	20830	136			Premium	PC5SI89I
VHL4-F-200	4000K	26800	129	Wattage: 207W Max. Current Draw 1.82A @120V 0.83A @277V		Standard	PO8V14KA
	5000K	28025	135			Premium	PCX3JWIO
VHL4-A-200	4000K	27230	132				PVX2SZTC
	5000K	28470	138				PD3HD5JV
VHL4-P-200	4000K	27080	131			Standard	P7SCUX4C
	5000K	28315	137			Premium	PUADRGXM
VHL4-F-225	4000K	28930	126		Wattage: 230W Max. Current Draw 2.09A @120V 0.92A @277V	Standard	PHUF6W12
	5000K	29670	131			Premium	PLDN970M
VHL4-A-225	4000K	29260	127			Standard	PM4VWE46
	5000K	30145	133			Premium	PP7ZQUY2
VHL4-P-225	4000K	29095	126			Standard	PM68QHR4
	5000K	29980	133			Premium	PH04KFIY

Luminaire Lumen Maintenance Factors (LMF)

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient (tested per IESNA LM-80 and projected per IESNA TM-21). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Model	25°C (77°F)			
	0 Hrs.	25k Hrs.	50k Hrs.	120k Hrs.
VHL4-X-100	1.00	0.93	0.87	0.71
VHL4-X-150	1.00	0.93	0.87	0.71
VHL4-X-200	1.00	0.93	0.87	0.71
VHL4-X-225	1.00	0.93	0.87	0.71