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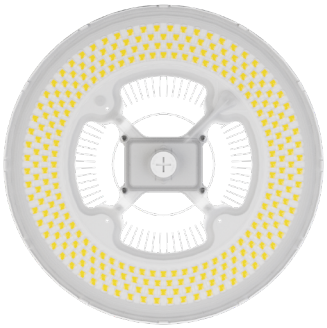
V4M Lamp E40 Hybrid

Europe, Korea, Australia | **Up to 47,537 Lumens, T_A= 70°C, Ballast Compatible and Bypass, 100-480 VAC**

Date	Project	Part #







Applications

- High lumens (eg. 1000W HID Replacement)
- Ballast Compatible or Direct HID retrofit
- Enclosed fixtures retrofit (eg. high mast)
- High temperature environment (eg. steel plants)
- High ceiling (eg. aircraft hangers)

Features

- Up to 47,537 Lumens @ 280W @ 80 CRI
- Compatible for all HID Ballast types 250-1000W
- Universal Voltage:
  - 135W-200W 100-480 VAC
  - 201W-280W 120-480 VAC
- Temperature
  - Up to T_A = 70°C @ 200W open fixture
  - Up to T_A = 40°C @ 200W enclosed fixture
- Low Glare, UGR<23
- 80 CRI Standard
- Five Year warranty[2]
- See Website for installation Guide and IES File

Certifications (Pending)

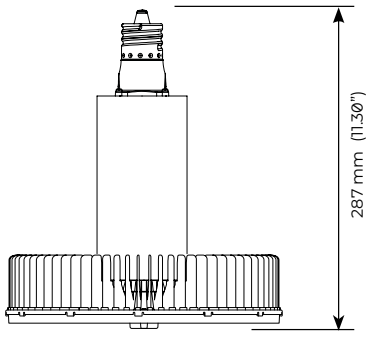
- IP65
- Europe (CB/CE)
- Korea (KC)
- Australia (SAA)

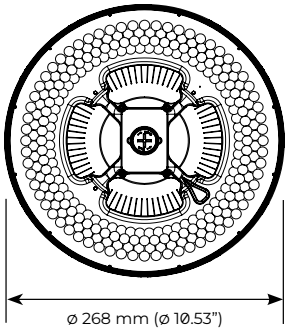
Control Options

- 3 pin connector for off the shelf control modules
- Controls not compatible with ballast operation
- Power settable using NFC Phone Application
- Dims to 10% then off

Mechanical

- Mogul Base
- Vertical Orientation
- 3.68 lb / 1.67 kg





1. Unless otherwise specified, all values are typical at 25°C, 277VAC, CCT ±300K with ±10% tolerance
2. See limited warranty for details
3. Specifications subject to change without notice
4. Not intended for use in environments containing airborne corrosive agents such as chemicals, solvents, or cutting fluids

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Date	Project	Part #

Photometry

- UGR<23

Lumens

			Lumens @ CCT	
	Power	**L/W**	**4000K**	**5000K**
High Efficiency	280W	181	50,722	50,722
	240W	185	44,448	44,448
	200W	187	37,636	37,636
Standard Efficiency	280W	170	47,537	47,537
	240W	174	41,576	41,576
	200W	177	35,456	35,456
	135W	185	25,000	25,000

Operating Temperature

	$T_{Ambient}$ [Max]		Input Voltage
Power	**Open**	**Enclosed**	
280W	50°C	N/A	200-480V
280W	40°C	N/A	120-160V
240W	60°C	N/A	120-480V
200W	50°C	N/A	100-120V
200W	70°C	40°C	120-480V
135W	70°C	40°C	100-480V

HID Ballast Compatibility (VH Driver)

The Hybrid series is compatible with HID magnetic ballast between 250-1000W. Such ballast types include probe start, pulse start, CWA, or reactive. The table below shows compatible ballast that have been tested. Input to ballast may be up to 480V. Optical distribution and lumen output are constant regardless of Ballast type or wattage. Ballast operation is not compatible with controls.

	HID Ballast Compatibility			
Type	**400W**	**600W**	**750W**	**1000W**
Metal Halide	M135/M155 MH400	-	M149	M141, M47
HPS	S51, NG400	S106, NG600		NG1000, S52

Electrical (VH & VL Drivers)

- VH: Hybrid: Ballast Compatible & 100-480 VAC
- 135W-200W 100-480 VAC
- 201W-280W 120-480 VAC
- <1% Flicker
- PF > 0.9, THD<20%
- Surge: 6 kV (L-N)

	Amps @ Line Voltage (VAC)						
	100V	**120V**	**160V**	**240V**	**320V**	**400V**	**480V**
135W	1.35A	1.13A	0.85A	0.57A	0.43A	0.34A	0.29A
200W	2.00A	1.67A	1.25A	0.83A	0.63A	0.50A	0.42A
240W	N/A	2.00A	1.50A	1.00A	0.75A	0.60A	0.50A
280W	N/A	2.33A	1.75A	1.17A	0.87A	0.70A	0.59A

Part # Key

- Not all combinations are valid or readily available - See ordering table for standard models
- Call for availability of custom features - MOQ may apply

Model

Series	Lamp Base		Power		CRI		CCT		Driver		Finish		Optics	
V4M	E40	E40	135 200 240 280	135W 200W 240W 280W	8	80 CRI	40 50	4000K 5000K	VH	Hybrid	WH	White	B90	90° Beam

Options

Accessory (Field Install)		Control Module (Field Install)		Other	
000	None	300	3 Pin Connector Ready for Control Module	ST HE	Standard High

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