



Catalog Number	
Project	Type

LUVM-CMVS SERIES

Clear Mercury Vapor Spectrum R40 LED Retrofit Module



SERIES	DIAMETER & WIDTH	NET WEIGHT
LUVM CMVS	5.4" x 3.2"	1.6 lbs

FEATURES & SPECIFICATIONS

APPLICATION — The LUVM-CMVS series retrofit series was designed to replace R40 clear mercury vapor lamps utilized to create moonlight effects. Utilizing a proprietary LED module combining white and colored LEDs, the LUVM-CMVS series is able to re-create the spectral distribution produced by R40 clear mercury vapor lamps. The module can be retrofitted into Techlight R40 bullet fixtures, or it can be installed in new construction installations using existing R40 bullet housings. It's primary usage is to accent landscape features a greenery, where the application requires a high lumen output.

CONSTRUCTION — The LUVM-CMVS retrofit kit consists of a sealed IP68 rated LED module with IP68 rated wireway gland. Die cast heat sink designed to accommodate up to 50W of LED heat. Tempered clear glass lens bonded using Dow Corning mil-spec RTV silicone adhesive sealant. The LUVM-CMVS driver is isolated from the LED heat and is IP66 rated for ingress against water/dust.

ELECTRICAL SYSTEM — Utilizing Cree 2835 LEDs to provide high lumens per watt power consumption between 167-178 lm/W depending on fixture output. Optimized to produce a spectral distribution that matches that of R40 clear mercury vapor lamps. L70 > 100,000 hrs @ 25°C. Includes an NTC foldback circuit which monitors LED temperature on the MCPCB, and will reduce driver output current in the event of high LED thermals caused by ambient temperatures above 40°C, or in the event of debris accumulation on fixture lens. A 10Kv surge protection device is included in module.

MOUNTING — The LUVM-CMVS module is retained in the R40 bullet housing by 4/ea stainless steel heat treated spring retainers. The module can be used in all major manufacturers' R40 sized bullet fixtures. It is optimized for Techlight R40 bullets.

LISTINGS — Complies with UL8750. Meets US and Canadian safety standards. -40°C to 50°C ambient operation. RoHS compliant. IP66 rated.

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each attribute.

EXAMPLE:

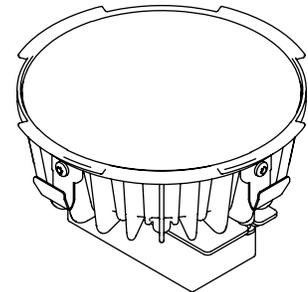
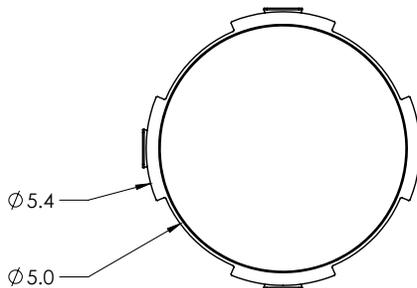
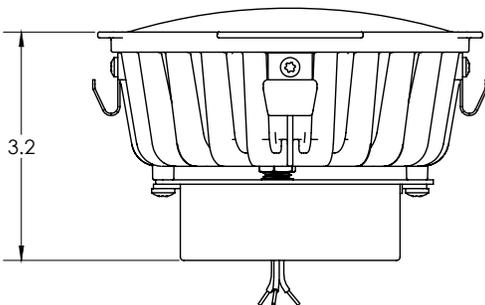
LUVM R40 32W CMVS 1

LUVM				
SERIES	OPTIC	WATTAGE	CCT	VOLTAGE
LUVM	R40	25W = 25 Watt 27W = 27 Watt 30W = 30 Watt 32W = 32 Watt 34W = 34 Watt 36W = 36 Watt 39W = 39 Watt 42W = 42 Watt	CMVS = Clear Mercury Vapor Spectral Distribution	1 = Multi-Volt ¹

NOTES

¹ = Multi-Volt is an auto ranging power supply from 120V to 277V

FIXTURE DIMENSIONS



Module Only



LUVM-CMVS Clear Mercury Vapor Spectrum R40 LED Retrofit Module

TECHNICAL DATA

Nominal Wattage	Delivered Lumens*	Wattage	Lm/W	120V Amps	208V Amps	240V Amps	277V Amps
25W	4340	24.9W	174.0	0.21A	0.12A	0.10A	0.09A
27W	4653	26.9W	173.3	0.22A	0.13A	0.11A	0.10A
30W	5091	29.6W	171.7	0.25A	0.14A	0.12A	.011A
32W	5407	31.7W	170.7	0.26A	0.15A	0.13A	0.11A
34W	5767	34.0W	169.8	0.28A	0.16A	0.14A	0.12A
36W	6129	36.3W	168.8	0.30A	0.17A	0.15A	0.13A
39W	6496	38.9W	167.1	0.32A	0.19A	0.16A	0.14A
42W	6864	41.5W	165.5	0.35A	0.20A	0.17A	0.15A

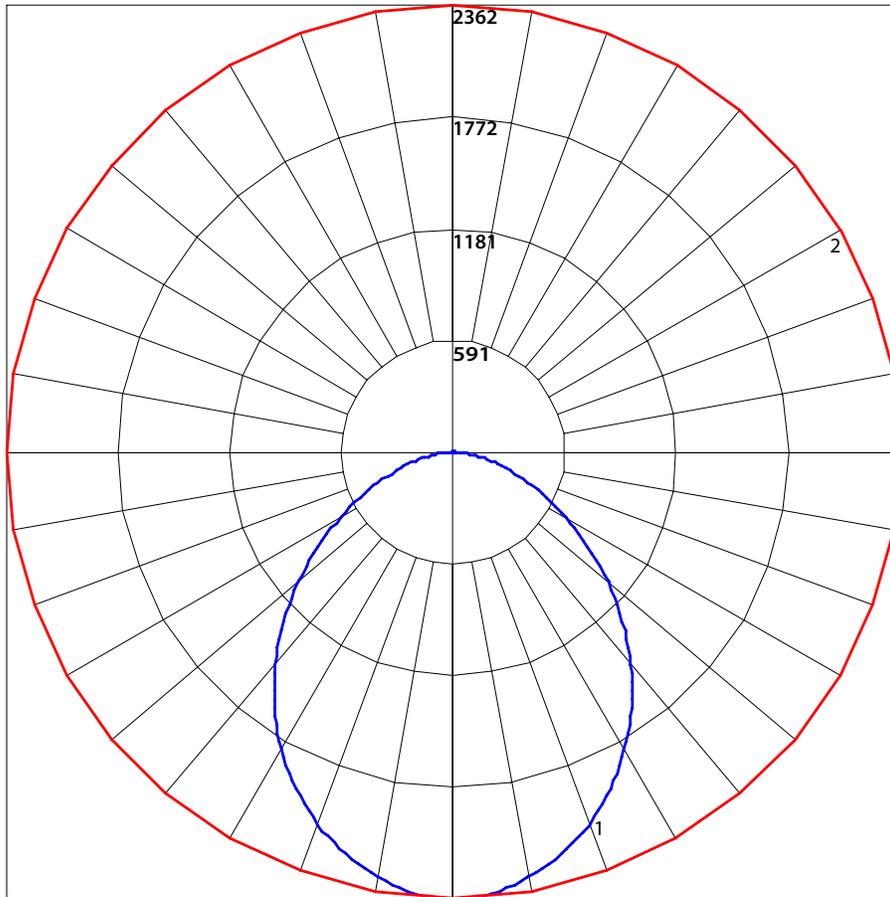
* As independent/stand-alone module, or installed in typical R40 landscape bullet with no additional glare shields and no additional lens

PHOTOMETRICS

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LUVM CMVS 32W.IES

POLAR GRAPH



Maximum Candela = 2362 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



2707 SATSUMA | DR. DALLAS, TX 75229 | PH: 800.225.0727 | techlight@techlight.com | www.techlight.com

All dimensions and specifications are subject to change without notice.

REV: 20231004-01