Product Description

The Vega M series is the most functional area/site/flood/high bay/ canopy/wall pack luminaire in the industry. The Vega M offers a slim style, thermal and optical integrated modular system, multiple options of light distribution, and a wide range installation interface. With over 8 years of documented use in field, The VEGA M is time tested across the globe, with outstanding results and minimal maintenance.

Project:		Type:
Location:		
Prepared By:		Date:
Comments:		

VEGA M SERIES
Modular Design with Multiple Mounting Options
LED Dimmable Luminaire

Performance Summary:

- CREE XLamp XPG2 LEDS with high efficacy >100 Lm/W
- Patented heat dissipation design for optimum efficiency
- National listing lab tested with 10 IES light distributions
- Excellent optical presentation for multiple applications
- Shatterproof polycarbonate lens cover for enhanced safety
- Solid State with high-shock and vibration resistance
- Die-cast aluminum housing with custom housing finishes
- Modular design for easy maintenance or upgrade
- 4 screws and a quick wire disconnect on the LED modules
- Multiple mounting options for many applications
- High CRI - RA>75 enhances all original colors
- Philips Xitanium 0-10V dimming power supply
- WAGO quick wire disconnects on the power supply
- External photocell and motion sensor capable
- 3' power cord and dimming cable whips for quick installation
- Contains no mercury or lead and cool to the touch
- No infrared or UV radiation
- Operating temperature: -40 to 55 degrees celsius
- 100,000 hour LED life
- Certifications: CE, FCC, RoHS, cUL, UL - IP66 outdoor rated
- 5 year system warranty

Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm
- VVDM042: 42 LEDS - 93W - 8800 Lm
- VVDM056: 56 LEDS - 123W - 12300 Lm
- VVDM070: 70 LEDS - 155W - 15500 Lm
- VVDM084: 84 LEDS - 185W - 18500 Lm
- VVDM098: 98 LEDS - 216W - 21600 Lm
- VVDM112: 112 LEDS - 246W - 24600 Lm
- VVDM126: 126 LEDS - 277W - 27700 Lm
- VVDM140: 140 LEDS - 308W - 30800 Lm

Ordering Information:

Part Number:

Ordering Example: VVDM028-50-S5M1-V27-BK-ND-SM

Family	CCT	Optic	Voltage	Finish	Dimming	Mounting*
VVDM028	30 - 3000K	S1S1 – 95 x 85 - Type I Short	V27 - 100-277V	BK - Black	ND - No Dim	AR - 0-90 Degree Rotating Pole Mount
VVDM042	40 - 4000K	S1S2 - 95 x 85 - Type I Short Diffused	V48 - 347-480V**	GR - Gray	DM - 0-10V Dim	SM - Static Surface Mount Bracket
VVDM056	50 - 5000K	A2M1 - 150 x 75 - Type II Medium	D12 - 12V DC	WT - White	DL - Dali	PL - Static Pole Mount Bracket
VVDM070	35 - 6500K	A2M3 – 145 x 65 - Type II Medium	D24 - 24V DC	BZ - Bronze	PD - Program Dim	RM - Recessed Mounting Kit
VVDM084	CS - Custom	A3L2- 155 x 100 - Type III Long		CS - Custom	(Specify Time Schedule)	PM - Pendant Pole with Static Base
VVDM098	(Specify NM)	A3M2 – 145 x 45 - Type III Medium		(Specify RAL)		TM - Yoke Bracket with Angle Adjust
VVDM112		S5M1 - 75 Degree - Type V Medium				WM - Static Wall Mount Bracket
VVDM126		S5N2 - 18 Degree - Type V Narrow				RB - Rotating Wall or Ceiling Bracket
VVDM140		S5W2 - 145 Degree - Type V Wide				SP - Suspension Kit with Quad Eyelets
		S7M1 - 130 x 30 - Type VII Medium				WP - Decorative Wall Mount Bracket

*See mounting specifications below for available models.
**VVDM028 not available.

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Specifications:

The Vega Modular LED Lens System features a durable and abrasion resistant polycarbonate lens housed within a modular design. With a high color rendering index of 75 or greater, all original colors are realized. Vega fixtures demonstrate first class quality within a beautiful, modern appearance. They are national listing lab tested with LM-79 and LM-80 reports to IESNA standards.

Designed with a purpose, the Vega features unprecedented lighting-class brightness, efficacy, lifetime and quality of light. These lighting-class features enable the XPG LED to replace many traditional light sources and save money with energy-efficient light and long lifetimes. Cree's advantage is in the materials they use. CREE® LEDS combine highly efficient InGaN materials with proprietary G•SIC® substrates to deliver superior price/performance for high-intensity LEDS. Typical features of CREE® LEDS include a single wire-bond connection, low forward voltage, exceptional thinness, low heat generation, high electrostatic discharge (ESD) tolerance/resistance and long life. This, coupled with a high performance power supply and extremely durable housing, puts the Vega at the top of its class.

Conforming to ISO9001:2000 Quality Management System, the Vega products maintain CE, RoHs, UL and cUL Certifications. Utilizing CREE LEDS, Philips drivers, and a frame built to withstand extreme weather, you will be confident with your purchase for years to come. Start saving up to 80% system energy over your existing HID fixture. Utilize Vega's dimming capabilities for even greater results. The Vega M shines bright above the rest.

Housing and Finish:

- Patented modular structure to realize power serialization by changing module quantity
- Aerodynamic styling
- Separable installation method
- Complies with Dark Sky requirements when mounted horizontally to the ground
- Heavy grade die-cast aluminum alloy construction built for extreme weather and durability
- Corrosion resistant polyester powder coat finish with 70-90 micrometer thickness
- Available in standard and custom housing colors
- Easy access power door assembly for quick installation and maintenance
- Open air modular heatsink ventilation design for best possible heat dissipation and optimum efficiency
- High shock and vibration resistance approved - 2G vibration test IEC 60598-1
- Flexible drive allocation options for different regions
- Spaces between modules prevent debris build-up by water-flow self-cleaning

LED and Lens Assembly:

- High efficacy CREE XPG2 LEDS >100 Lm/W
- Glare reducing optical lens design
- Precise, non-image optics system, improves lumen output ratio with uniform distribution
- Lens reflector built directly over the LEDS for accurate beam angle and photometrics
- Durable and abrasion resistant polycarbonate lens with modular design
- Instant on or off without delay or re-strike
- High CRI - RA>75 enhances original colors
- Contains no Mercury or Lead
- No infrared or UV radiation resulting in insect reduction
- National listing lab tested with LM-79 and LM-80 reports to IESNA standards
- Lumen depreciation is L70 at 81,600 hours

Electrical:

- Philips Advance Xitanium Class I dimmable drivers for ultimate quality and long life
- Optimized life expectancy of driver is 75,000 hours
- 0-10V and programmable dimming options with a network-ready DALI interface. Zigbee capable
- Lead-wires are 18AWG 105C/600V solid copper
- Voltage ranges from 100-277 VAC, 347-480 VAC, 12 VDC and 24 VDC for solar
- Class "A" sound rating
- Max surge protection of 10kv. IEEE/ANSE C62412
- System power factor is >99% and THD <20%
- Thermal protection reduces the LED output if case temperature exceeds 185 degrees fahrenheit
- EMI/RFI: Title 47 CFR part 15 Class A
- LED driver complies with UL standard UL1012
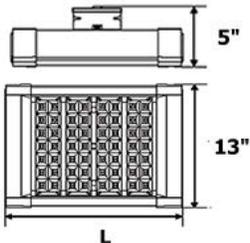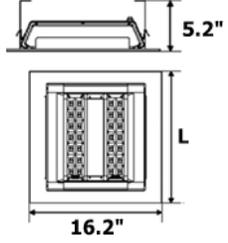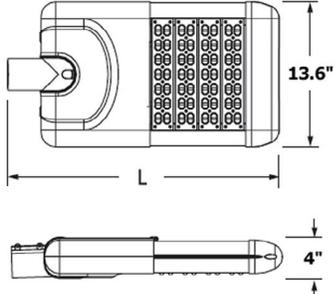
Certifications and Warranty:

- CE, UL, cUL, suitable for wet locations per UL 1598
- All components are IP66 rated according to IEC60598
- RoHS compliant
- Operating temperature: -40 to 55 C
- Operating humidity: 10% to 95%
- 5 year system warranty

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Mounting:

SM - Static Surface Mount Bracket

- Low profile surface mount kit with several mounting holes
- The bracket can also attach to NPT pipe
- Stainless steel hardware to ensure long life
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Available in many different IES optics
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and daylight harvesting controls capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs
- VVDM098: 98 LEDS - 216W - 21600 Lm - 21.7" (L) - 21.8 lbs
- VVDM112: 112 LEDS - 246W - 24600 Lm - 24.1" (L) - 23.4 lbs
- VVDM126: 126 LEDS - 277W - 27700 Lm - 26.5" (L) - 25.6 lbs
- VVDM140: 140 LEDS - 308W - 30800 Lm - 28.9" (L) - 30.2 lbs

Applications:

- High Bays / Low Bays
- Canopies
- Gymnasiums
- Warehouses
- Manufacturing
- Garages

RM - Recessed Mounting Kit

- Separate mounting bracket attaches to the ceiling
- Mounting clips hold the fixture inside the bracket
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Available in many different IES optics
- Terminal block and quick wire disconnects pre-wired
- Detailed mounting instructions available
- External motion sensor and daylight harvesting controls capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs

Applications:

- Recessed Soffits
- Recessed Canopies
- Gymnasiums
- High Bay / Low Bay
- Retail

AR - 0-90 Degree Rotating Pole Mount

- 2 3/8" OD knuckle with four large securing screws
- 0-90 degree rotation with angle adjustment
- Stainless steel hardware to ensure long life
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- 1000 hour salt spray tested
- Available in many different IES optics
- Terminal block and quick wire disconnects pre-wired
- Top panel knock out for optional photocell
- Tool-less entry door for easy installation and maintenance

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 22.2" (L) - 17.9 lbs - EPA .71 sq.ft
- VVDM042: 42 LEDS - 93W - 8800 Lm - 24.6" (L) - 19.2 lbs - EPA .81 sq.ft
- VVDM056: 56 LEDS - 123W - 12300 Lm - 27.1" (L) - 20.9 lbs - EPA .89 sq.ft
- VVDM070: 70 LEDS - 155W - 15500 Lm - 29.5" (L) - 22.3 lbs - EPA .97 sq.ft
- VVDM084: 84 LEDS - 185W - 18500 Lm - 31.9" (L) - 26.0 lbs - EPA 1.05 sq.ft
- VVDM098: 98 LEDS - 216W - 21600 Lm - 34.4" (L) - 27.8 lbs - EPA 1.14 sq.ft
- VVDM112: 112 LEDS - 246W - 24600 Lm - 36.9" (L) - 29.1 lbs - EPA 1.22 sq.ft
- VVDM126: 126 LEDS - 277W - 27700 Lm - 39.3" (L) - 30.6 lbs - EPA 1.29 sq.ft
- VVDM140: 140 LEDS - 308W - 30800 Lm - 41.7" (L) - 32.4 lbs - EPA 1.38 sq.ft

Applications:

- Roadways
- Streets
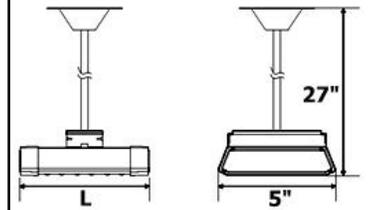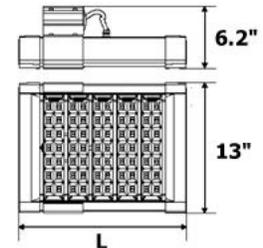- Parking Lots
- Security Lighting

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Revised 6.1.16

Mounting:

PM - Pendant Pole with Static Base

- Pendant mounted pole with cone-shaped mounting cup
- Stainless steel hardware to ensure long life
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Available in many different IES optics
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and daylight harvesting controls capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs
- VVDM098: 98 LEDS - 216W - 21600 Lm - 21.7" (L) - 21.8 lbs
- VVDM112: 112 LEDS - 246W - 24600 Lm - 24.1" (L) - 23.4 lbs
- VVDM126: 126 LEDS - 277W - 27700 Lm - 26.5" (L) - 25.6 lbs
- VVDM140: 140 LEDS - 308W - 30800 Lm - 28.9" (L) - 30.2 lbs

27"
L
5"

Applications:

- Architectural
- Pendants
- High Bays / Low Bays
- Gymnasiums
- Warehouses
- Restaurants
- Retail
- Decorative Areas

PL - Static Pole Mount Bracket

- Clamshell slipfitter slides directly onto the pole
- Stainless steel, SAE, heavy gauge adjusting screws
- Adjustable mounting to fit pipe - 2 3/8" OD
- Electrical cable included, pre-wired, extended out of the fixture for quick installation
- Available in many different IES optics
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and photocell capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs
- VVDM098: 98 LEDS - 216W - 21600 Lm - 21.7" (L) - 21.8 lbs
- VVDM112: 112 LEDS - 246W - 24600 Lm - 24.1" (L) - 23.4 lbs
- VVDM126: 126 LEDS - 277W - 27700 Lm - 26.5" (L) - 25.6 lbs
- VVDM140: 140 LEDS - 308W - 30800 Lm - 28.9" (L) - 30.2 lbs
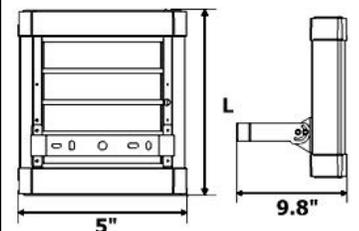

6.2"
13"
L

Applications:

- Roadways
- Streets
- Parking Lots
- Billboards
- High Mast
- Security

TM - Yoke Bracket with Angle Adjust

- Heavy duty yoke bracket, base adjustable
- Stainless steel, SAE, heavy gauge adjusting screws
- Available in many different IES optics
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and photocell capable

Available Models:

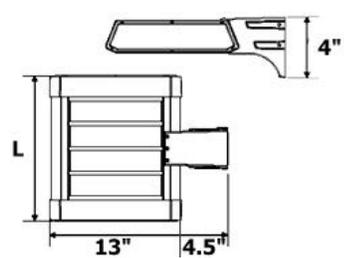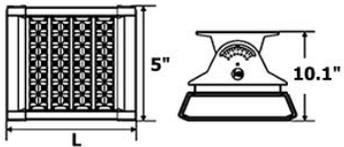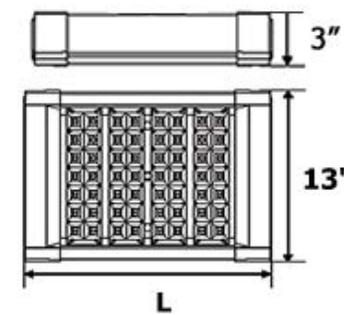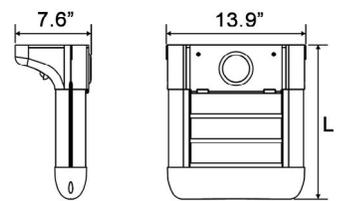- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs
- VVDM098: 98 LEDS - 216W - 21600 Lm - 21.7" (L) - 21.8 lbs
- VVDM112: 112 LEDS - 246W - 24600 Lm - 24.1" (L) - 23.4 lbs
- VVDM126: 126 LEDS - 277W - 27700 Lm - 26.5" (L) - 25.6 lbs
- VVDM140: 140 LEDS - 308W - 30800 Lm - 28.9" (L) - 30.2 lbs

L
5"
9.8"

Applications:

- Security
- Pathway
- Sports Courts
- Parking Lots
- General Flood Lighting

VividLeds
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Mounting:

WM - Static Wall Mount Bracket

- Heavy duty mounting arm for 4" poles or wall mount
- Stainless steel, SAE, heavy gauge adjusting screws
- Available in many different IES optics
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and photocell capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs

Applications:

- Wall Packs
- Area Lighting
- Architectural
- Security

RB - Rotating Wall or Ceiling Bracket

- Die-cast aluminum rotating bracket for pole or wall mounting
- Available in many different IES optics
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and photocell capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs

Applications:

- Tunnels
- General Flood Lighting
- Security
- High Bays / Low Bays
- Sloped Ceilings

SP - Suspension Kit with Quad Eyelets

- Four eyelets are attached to all four corners of the fixture
- Gripple cabling available for easy suspension mounting
- Stainless steel hardware to ensure long life
- Available in many different IES optics
- Dimming and electrical cable included, pre-wired, extended outside the unit for quick installation
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and daylight harvesting controls capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs
- VVDM070: 70 LEDS - 155W - 15500 Lm - 16.8" (L) - 16.8 lbs
- VVDM084: 84 LEDS - 185W - 18500 Lm - 19.2" (L) - 20.4 lbs
- VVDM098: 98 LEDS - 216W - 21600 Lm - 21.7" (L) - 21.8 lbs
- VVDM112: 112 LEDS - 246W - 24600 Lm - 24.1" (L) - 23.4 lbs
- VVDM126: 126 LEDS - 277W - 27700 Lm - 26.5" (L) - 25.6 lbs
- VVDM140: 140 LEDS - 308W - 30800 Lm - 28.9" (L) - 30.2 lbs

Applications:

- Architectural
- High Bays / Low Bays
- Gymnasiums
- Warehouses
- Decorative Areas

WP - Decorative Wall Mount Bracket

- Mounts directly to a junction box with wall mount bracket
- Top panel knock out for optional photocell
- Available in many different IES optics
- Optional integrated infrared motion sensor with stepping levels
- Terminal block and quick wire disconnects pre-wired
- External motion sensor and daylight harvesting controls capable

Available Models:

- VVDM028: 28 LEDS - 62W - 5800 Lm - 12.8" (L) - 20.3 lbs
- VVDM042: 42 LEDS - 93W - 8800 Lm - 15.3" (L) - 22.7 lbs

Applications:

- Wall Pack
- Area Light

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The product on this page is a manufactured to order, non-stocking item. This product cannot be returned for refund or credit.

Revised 6.1.16

Accessories:

Vega M AR Accessories (Add to Part Number)

- PC1 - Photocell 100-277 VAC
- PC2 - Photocell 480 VAC
- SC - Shorting Cap
- OC - Open Cap
- RC - Instant Electromagnetic
- Twist Lock Receptacle

Vega M WP Accessories (Add to Part Number)

- PC1 - Photocell 100-277 VAC
- PC2 - Photocell 347-480 VAC
- SC - Shorting Cap
- OC - Open Cap
- RC - Instant Electromagnetic
- Twist Lock Receptacle
- MSO - Outdoor Microwave Motion Sensor 100-277 VAC

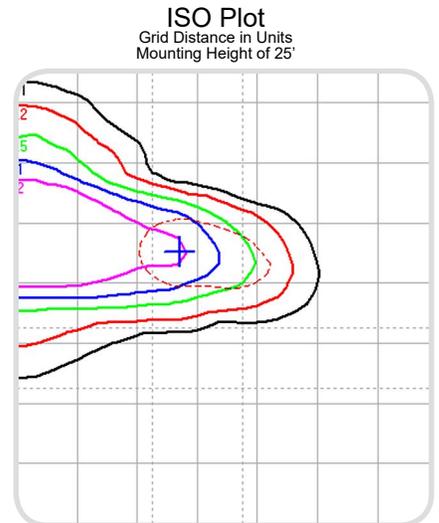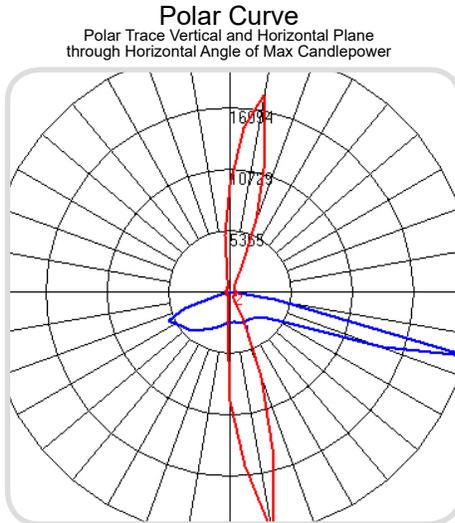|		
PC1 & PC2 - Photocell • High impact UV stabilized polycarbonate enclosure and clear window • High impact polybutylene terephthalate base • Photocell with 0.5" Cadmium Sulfide with heat sink • ANSI C136.10-1996 Twist Lock receptacle • Time delay 30-120 seconds • Power consumption: 1.5VA (Average) • Operation: 10-20Lx On (Dusk), 30-60Lx Off (Dawn) • Temperature compensated • Lighting arrester on board		The photocell/receptacle system will control street lighting automatically in accordance with the ambient natural lighting level. This product is designed on the basis of a thermal bimetallic structure that provides time delay over 30 seconds to avoid mis-operation due to spotlight or lightning during the evening hours. A temperature compensation system provides consistent performance regardless of the ambient temperature.

Vega M SP Accessories (Add to Part Number)

- VVDYFIT210: Gripple Y-Fit Standard Hang Fast 100 Lbs Y-Hook with 10' Galvanized Cable and Snap (Pair)
- VVDYFIT215: Gripple Y-Fit Standard Hang Fast 100 Lbs Y-Hook with 15' Galvanized Cable and Snap (Pair)
- VVDLOOP210: Gripple 100 Lbs Safety Cable Galvanized 10'
- VVDLOOP215: Gripple 100 Lbs Safety Cable Galvanized 15'
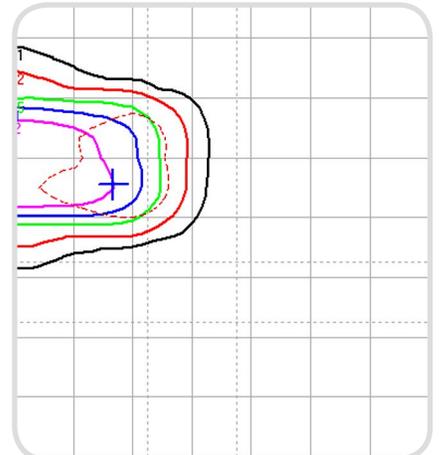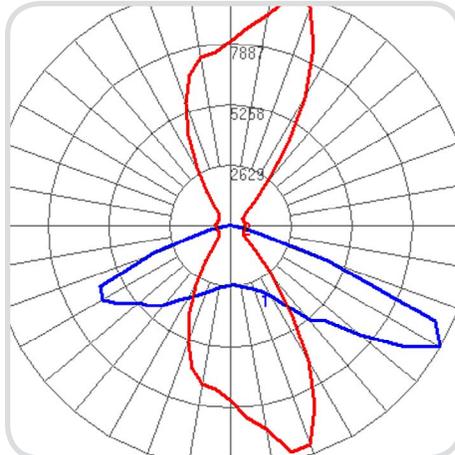
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Photometry:

All published luminaire photometric testing performed by Independant Testing Laboratories certified test report # ITL73461. 126 LED Vega M with 27,700 total integrated lumens at 700mA. 4000K candlepower trace and 85 CRI. 120VAC input.
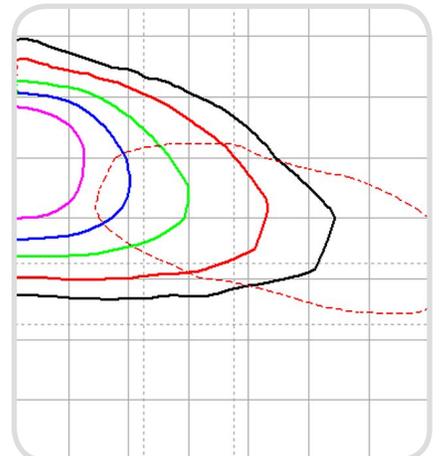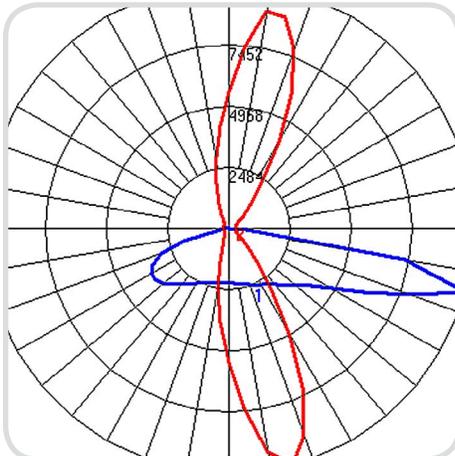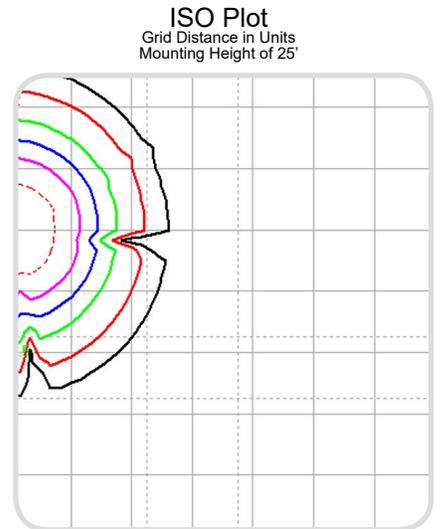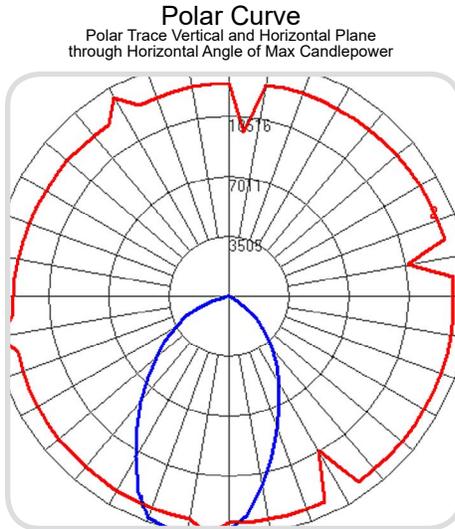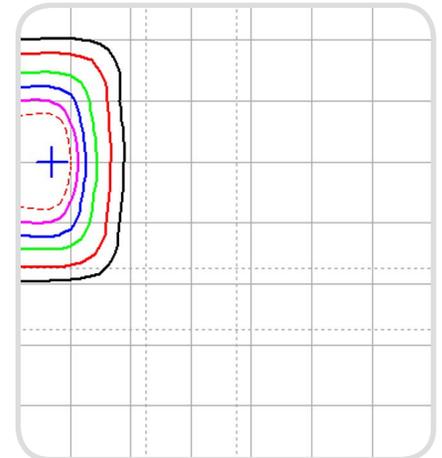

Polar Curve
Polar Trace Vertical and Horizontal Plane through Horizontal Angle of Max Candlepower

ISO Plot
Grid Distance in Units Mounting Height of 25'

A2M1 Lens
Asymmetric Type II Medium

16094
10729
5365

A2M3 Lens
Asymmetric Type II Med Horizontal

7887
5258
2629

A3L2 Lens
Asymmetric Type III Long
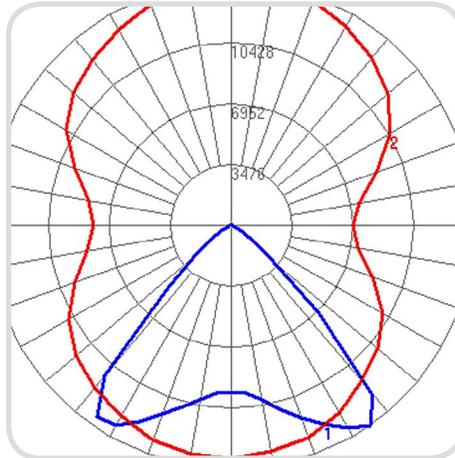

7452
4968
2484

A1

Revised 6.1.16

Photometry:

All published luminaire photometric testing performed by Independant Testing Laboratories certified test report # ITL73461. 126 LED Vega M with 27,700 total integrated lumens at 700mA. 4000K candlepower trace and 85 CRI. 120VAC input.
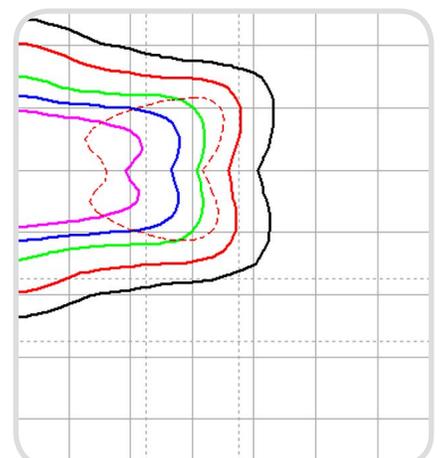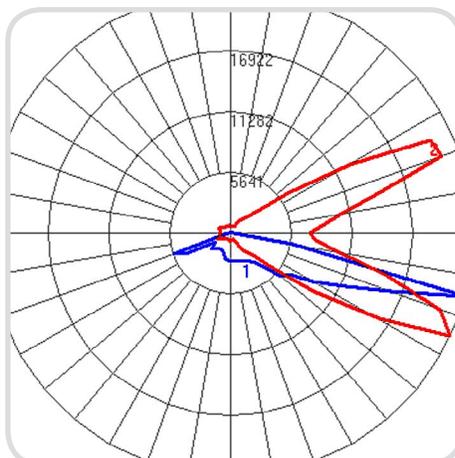

Polar Curve
Polar Trace Vertical and Horizontal Plane
through Horizontal Angle of Max Candlepower

ISO Plot
Grid Distance in Units
Mounting Height of 25'

S5M1 Lens
Symmetric Type V Medium

S1S1 Lens
Symmetric Type I Short

S1M1 Lens
Symmetric Type I Medium

A1

Revised 6.1.16