A6 – Traffic Signals + Vehicular Lighting Specs

DESCRIPTION

The Verdeon LED roadway luminaire combines optical performance, energy efficiency, and outstanding versatility to meet the requirements of any roadway application. Advanced optical technology delivers unparalleled uniformity, scalability, and budget-beating operating costs for municipal streets and highways. UL/cUL listed for wet locations with an optional IP66 enclosure rating available.

B36229 QTY 52 / ITEM#0214 VERD-M-D-U-T3-4N7-BK-0A1RA013

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Heavy-duty die-cast aluminum housing and door. Tool-less entry, hinged removable door for easy maintenance. 3G vibration rated.

Optics

Optics are precisely designed to shape the distribution maximizing efficiency and fixture spacing. Offered standard in 4000K (+/-275K) CCT and 70 CRI. Optional 5000K CCTand 3000K CCT are available.

Electrical

120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 10kV/10kA common and differential mode surge protection available. Thermal

management transfers heat away from the LED source for optimal efficiency, light output and lumen maintenance. Operates in ambient temperatures from -40°C to 40°C. 50°C HA (high ambient) option available. Standard three-position tunnel type terminal block. LED modules are IP66 rated.

Mounting

Four-bolt slipfitter with cast-in pipe stop and 2.5° leveling steps. Fixedin-place bird guard seals around 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) mounting arms. Optional 15" pole mount arm available with round pole adapter and mounting hardware included.

Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult your lighting representative at Eaton for a complete selection of standard colors.

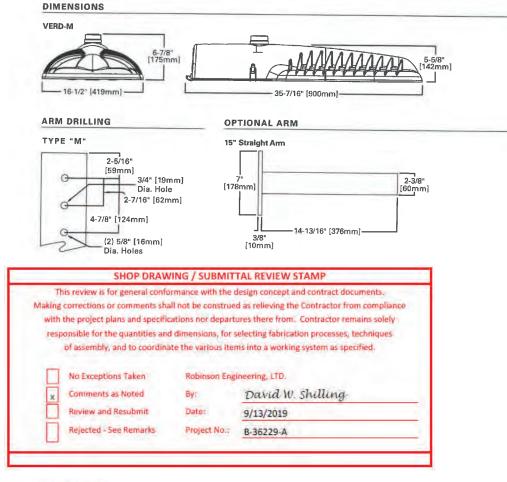
Warranty

Five-year warranty.



VERDEON

ROADWAY LUMINAIRE





DLC

CERTIFICATION DATA UL and cUL Wet Location Listed IP66-Rated Optics 3G Vibration Rated ISO 9001 DesignLights Consortium® Qualified*

ENERGY DATA Electronic LED Driver 0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50 and 60Hz, 347V 60Hz, 480V 60Hz -40°C Minimum Temperature Rating +40°C Ambient Temperature Rating

EPA Effective Projected Area (Sq. Ft.): 0.8

SHIPPING DATA Approximate Net Weight: 35 lbs. (15.9 kgs.)



page 2

POWER AND LUMENS

Light Engine		M-A0385	M-A03	M-A0485	M-A04
Power (V	Vatts)	152	182	210	247
Current (a) @ 120V	1.41	1.69	1.95	2.29
Current (a) @ 277V	0.61	0.74	0.85	1.00
Power (V	Vatts)	167	197	211	255
Current (a) @ 347V	0.49	0.58	0.62	0.75
Current (a) @ 480V	0.36	0.41	0.45	0.54
Optics	-				-
Type II	Lumens	19,571	22,456	26,419	29,829
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
Type III	Lumens	19,380	22,236	26,161	29,537
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
Type IV	Lumens	19,377	22,233	26,157	29,533
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
_	Lumens	19,690	22,592	26,579	30,010
Type V	BUG Rating	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5

LUMEN MAINTENANCE

M-A03, M-A0385, M-A04, M-A485 TM-21 Ambient Theoretical L70 Lumen Maintenance Temperature (Hours) (60,000 hours) 25°C >92% >259,000 40°C >92% >259.000 * A01 Not available in 347V or 480V.

Review and Resubmit

Rejected - See Remarks

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MULTIPLIER

SHOP DRA	WING / SUBI	MITTAL REVIEW STAMP		
Making corrections or comments s with the project plans and spec responsible for the quantities a	ihall not be cons ifications nor de and dimensions,	the design concept and contract documents, trued as relieving the Contractor from compliance partures there from. Contractor remains solely for selecting fabrication processes, techniques ; items into a working system as specified.		
No Exceptions Taken	Robinson Engineering, LTD.			
x Comments as Noted	By:	David W. Shilling		

9/13/2019

B-36229-A

Date:

Project No.:

NOTE: Lumen output for AP Grey fixture color, 120-277V.

ORDERING INFORMATION

Sample Number: VERD-M-A04-D-U-T2-4N7-AP

Product Family 1,2	Light Engine ³	Driver 4	Voltage C		Di	stribution
VERD=Verdeon	M-A03=3 LEDs, Full Output M-A0385=3 LEDs, Approximately 85% Output M-A04=4 LEDs, Full Output M-A0485=4 LEDs, Approximately 85% Output	E=Non-Dimming D=Dimming (0-10V) SLTD=DALI	0-	Universal (120-277V) 4987 * 347V	T3	стуре II ==Туре III =Туре IV =Туре V
Options (Add as Suff	fix)			Color 13	Accesso	ries (Order Separately)
4N7=NEMA 7-PIN Tw 10KSP=10kV UL 1449 St 10MSP=10kV MOV St 1P66=1P66 Rated Houtor MS/DIM-L08=Motion MS/DIM-L08=Motion MS/DIM-L40=Motion MS/D	CCT * hotocontrol Receptacle istitock Photocontrol Receptacle 7 urge Protective Device urge Protective Device ising ant Temperature * a Sensor for Dimming Operation, Maximum 8' Moui Sensor for Dimming Operation, Maximum 9' - 20' a Sensor for Dimming Operation, Maximum 9' - 20' a Sensor for Dimming Operation, Maximum 21' - 40 talled LumaWatt RF Dimming Control System (Moui talled LumaWatt RF Dimming Control System (Moui 5'' Straight Arm) ¹²	Mounting Height 7, 9, 19 ' Mounting Height 7, 9, 49 Inting Height 16' and Up) 10, 11		AP=Grey (Standard) BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White Ensure driver has minimum surge pro per plans. If not, pl include one of the	OA/RA1 OA/RA1 OA/RA1 OA/RA1 OA/RA1 FSIR-100 HS/VER VGS-F/E VGS-SIE 10kV otection ease	=10kV UL 1449 Surge Module Replacement 013=Photocontrol Shorting Cap 014=NEMA Photocontrol - 10V 016=NEMA Photocontrol - 480V 201=NEMA Photocontrol - 480V 201=NEMA Photocontrol - 347V D=Wireless Configuration Tool for Motion Sensor ¹⁴ D=Verdeon House Side Shield ¹⁵ B=Vertical Glare Shield, Front/Back D=Vertical Glare Shield, Side
OTES: Customer is responsible	for engineering analysis to confirm pole and fixture compatit	blity for all applications. Refer to our	white			mation.

2. DesignLights Consortium® Qualified. Refer to www.designlights.org-Qualified products list under family model details. 3. Standard 4000K CCT and 70 CRI.

 a. Consult factory for driver surge protection values.
b. Consult factory for driver surge protection values.
b. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner founded Delta systems). 6. Extended lead times apply. Use dedicated IES files for 3000K and 5000K when performing layouts. These files are published on the VERD-M Verdeon luminaire product page on the website.

Must specify dimming driver.
HA option not available for M-A04 light engines.

9. The FSIR-100 accessory is required to adjust parameters.

10. Not available with photocontrol receptacle (not required).

11. LumaWatt wireless sensors are factory installed and require network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See website for LumaWatt application information.

12. Round pole adapter and mounting hardware included. "M" drill pattern. 13. Standard photometry based on grey housing. Consult web for alternate color data.

14. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information. 15. Option will come factory-installed. Must order one per optic as an accessory. House Side Shield not suitable for T5 distribution.



VERD-M VERDEON

November 28, 2018 1:48 PM

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