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.

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 5700K CCT, 5000K CCT and 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

Two-bolt/one-bracket slipfitter with cast-in pipe stop and 2.5° leveling steps. Four-bolt/two-clamp mounting option. Fixed-in-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.



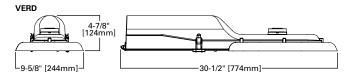
Streetworks

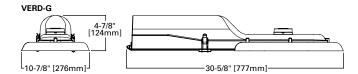
VERD VERDEON

LED

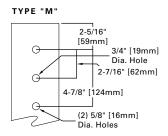
ROADWAY LUMINAIRE

DIMENSIONS

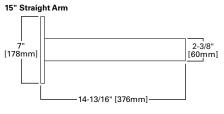




ARM DRILLING



OPTIONAL ARM





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

FΡΑ

Effective Projected Area (Sq. Ft.): 0.5

SHIPPING DATA Approximate Net Weight: 12.5 lbs. (5.7 kgs.)





POWER AND LUMENS

Light Eng	gine	A016	A018	A01	A028	A02	G-A028	G-A02	Ambient	TN
Power (W	Vatts)	36	51	64	72	92	103	143	Temperature	Lumen M (50,00
Current (a	a) @ 120V	0.32	0.45	0.57	0.64	0.81	0.91	1.26	A01*	!
Current (a	a) @ 277V	0.15	0.20	0.25	0.29	0.64	0.40	0.53	25°C	3<
Power (W	Vatts)	44	59		83	100	113	154	40°C	>8
Current (a	a) @ 347V	0.13	0.17		0.24	0.28	0.33	0.45	A018, A016, A02, 8	
Current (a	a) @ 480V	0.09	0.13		0.17	0.21	0.24	0.33	710 10,710 10,7102,70	TN
Optics									Ambient Temperature	Lumen M
Type II	Lumens	3,855	4,936	5,839	7,858	9,294	12,064	15,332		(50,00
iype ii	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	25°C	>9
	Lumens	3,775	4,833	5,716	7,693	9,099	11,946	15,182	40°C	>9
Type III	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	G-A02 & G-A028	
	Lumens	3,785	4,846	5,732	7,714	9,123	11,944	15,180	Ambient	TN Lumen M
Type IV	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	Temperature	(60,00
	Lumens	3,864	4,948	5,852	7,876	9,315	12,137	15,425	25°C	>9
Type V	BUG Rating	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3	40°C	>9
NOTE: Lume	n output for AP Grey fixt			B3-U0-G2	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3	* A01 Not available in 34	7V or 480

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

LUMEN MULTIPLIER

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 MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (50,000 hours)	Theoretical L70 (Hours)			
A01*					
25°C	>88%	>127,000			
40°C	>82%	>87,000			
A018, A016, A02, & A028					
Ambient Temperature	TM-21 Lumen Maintenance (50,000 hours)	Theoretical L70 (Hours)			
25°C	>92%	>200,000			
40°C	>90%	>145,000			
G-A02 & G-A028					
Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)			
25°C	>91%	>250,000			
40°C	>90%	>200,000			

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ORDERING INFORMATION

Sample Number: VERD-A018-D-U-T2-4N7-AP

Product Family 1, 2	Light Engine ³	Driver ⁵	Voltage		Distribution
VERD=Verdeon	A01=1 LED, Full Output ⁴ A018=1 LED, Approximately 80% Output A016=1 LED, Approximately 60% Output A02=2 LEDs, Full Output A028=2 LEDs, Approximately 80% Output G-A028=High Lumen, 2 LEDs, Approximately 80% Output	E=Non-Dimming D=Dimming (0-10V) ⁶	U=Universal (120-277V) 8=480V ^{7.8} 9=347V ⁷		T2=Type II T3=Type III T4=Type IV T5=Type V
Options (Add as Suf	fix)		Color	Accessories (Order Separately)	
7030=70 CRI / 30001 7060=70 CRI / 57001 4=NEMA Twistlock 4N7=NEMA 7-PIN T 10K=10kV UL 1449; 10MSP=10kV MOV IP66=IP66 Rated Hot HA=50°C High Amb MS/DIM-L08=Motio MS/DIM-L20=Motio MS/DIM-L20=Motio LWR-LN=Factory In K=Level Indicator 4B=Four-bolt, Two- A15=Arm Included HSS=House Side S	AP=Grey (Standard) BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	OA1223=10kV UL 1449 Surge Module Replacement OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V FSIR-100=Wireless Configuration Tool for Motion Sensor 16 HS/VERD=Verdeon House Side Shield 17 VGS-F/B=Vertical Glare Shield, Front/Back VGS-SIDE=Vertical Glare Shield, Side			

NOTES:

- 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- 2. DesignLights Consortium® Qualified. Refer to www.designlights.org qualified products list under family models for details.
- 3. Standard 4000K CCT and 70 CRI.
- 4. Not available in 347V or 480V.
- 5. Consult factory for driver surge protection values.
- 6. Dimming leads will be capped except when 4N7 or motion sensor option is specified.
- 7. Not available with A01 light engine.
- 8. 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 Grounded Delta systems).
- 9. Extended lead times apply. Use dedicated IES files for 3000K and 5700K when performing layouts. These files are published on the VERD Verdeon luminaire product page on the website.
- 10. Must specify dimming driver.
- 11. Not available with 4B option. Sensor mounted externally. Consult factory for more information.
- 12. The FSIR-100 accessory is required to adjust parameters.
- 13. 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.
- 14. LumaWatt wireless system is not available with photocontrol receptacle (not required).
- 15. Round pole adapter and mounting hardware included. "M" drill pattern.
- 16. 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.
- 17. Option will come factory-installed. Must order one per optic as an accessory. House Side Shield not suitable for T5 distribution.