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 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 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.



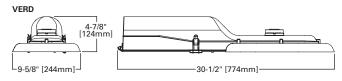
Streetworks

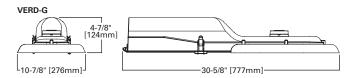
VERD VERDEON

LED

ROADWAY LUMINAIRE

DIMENSIONS





ARM DRILLING

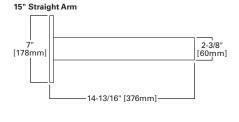
TYPE "M"

2-5/16" [59mm] 3/4" [19mm] Dia. Hole 2-7/16" [62mm]

(2) 5/8" [16mm]

Dia. Holes

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

EΡΑ

Effective Projected Area (Sq. Ft.): 0.5

SHIPPING DATA Approximate Net Weight: 20 lbs. (9.1 kgs.)





POWER AND LUMENS

Light Eng	ine	A016	A018	A01	A028	A02	G-A028	G-A02
Nominal Power (Watts) @ 120V		36W	51W	64W	72W	92W	103W	143W
Nominal Power (Watts) @ 277V		36W	51W	64W	72W	92W	103W	143W
Nominal Power (Watts) @ 347V		40W	56W	N/A	79W	101W	113W	154W
Nominal Power (Watts) @ 480V		40W	56W	N/A	79W	101W	113W	154W
Optics								
T II	Lumens	3,855	4,936	5,839	7,858	9,294	12,064	15,332
Type II	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
Type III	Lumens	3,775	4,833	5,716	7,693	9,099	11,946	15,182
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
Type IV	Lumens	3,785	4,846	5,732	7,714	9,123	11,944	15,180
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4
Type V	Lumens	3,864	4,948	5,852	7,876	9,315	12,137	15,425
	BUG Rating	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3

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

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, A0	2, & 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	3			
Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)		
25°C	>91%	>250,000		
40°C	>90%	>200.000		

A01 Not available in 347V or 480V.

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			

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-A02=High Lumen, 2 LEDs, Full Output G-A028=High Lumen, 2 LEDs, Approximately 80% Output	E=Non-Dimming D=Dimming (0-10V) *	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	ffix)		Color	Accessories (Order Separately)		
7030=70 CRI / 3000K CCT 9 7060=70 CRI / 5700K CCT 9 4=NEMA Twistlock Photocontrol Receptacle 4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle 9 10K=10kV UL 1449 Surge Protective Device 10MSP=10kV MOV Surge Protective IP66=IP66 Rated Housing HA=50°C High Ambient Temperature MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height 10, 11, 12 MS/DIM-L20=Motion Sensor for Dimming Operation, Maximum 9' - 20' Mounting Height 10, 11, 12 MS/DIM-L40=Motion Sensor for Dimming Operation, Maximum 21' - 40' Mounting Height 10, 11, 12 DIMRF-LN=Factory Installed LumaWatt RF Dimming Control System (Mounting Height 16' and Up) 13, 14 DIMRF-LW=Factory Installed LumaWatt RF Dimming Control System (Mounting Height 16' and Up) 13, 14 ELevel Indicator 4B=Four-bolt, Two-clamp Mounting A15=Arm Included (15" Straight Arm) 15			AP=Grey (Standard) BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	OA/RA10 OA/RA10 OA/RA10 OA/RA11 OA/RA11 FSIR-100 HS-VERIVGS-F/B	e-10kV/10kA UL 1449 Surge Module Replacement D13=Photocontrol Shorting Cap D14=NEMA Photocontrol - 120V D16=NEMA Photocontrol - 480V D19=NEMA Photocontrol - 480V D19=NEMA Photocontrol - 347V D19=NEMA Photocontrol - 347V D19=Wireless Configuration Tool for Motion Sensor 16 D2=Verdeon House Side Shield D3=Vertical Glare Shield, Front/Back E=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. Must specify 4N7 option.
- 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 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 needed).
- 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.

