

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510042

Luminaire Tested: **VERD-M-CA4-190-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-190-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 870mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28469 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

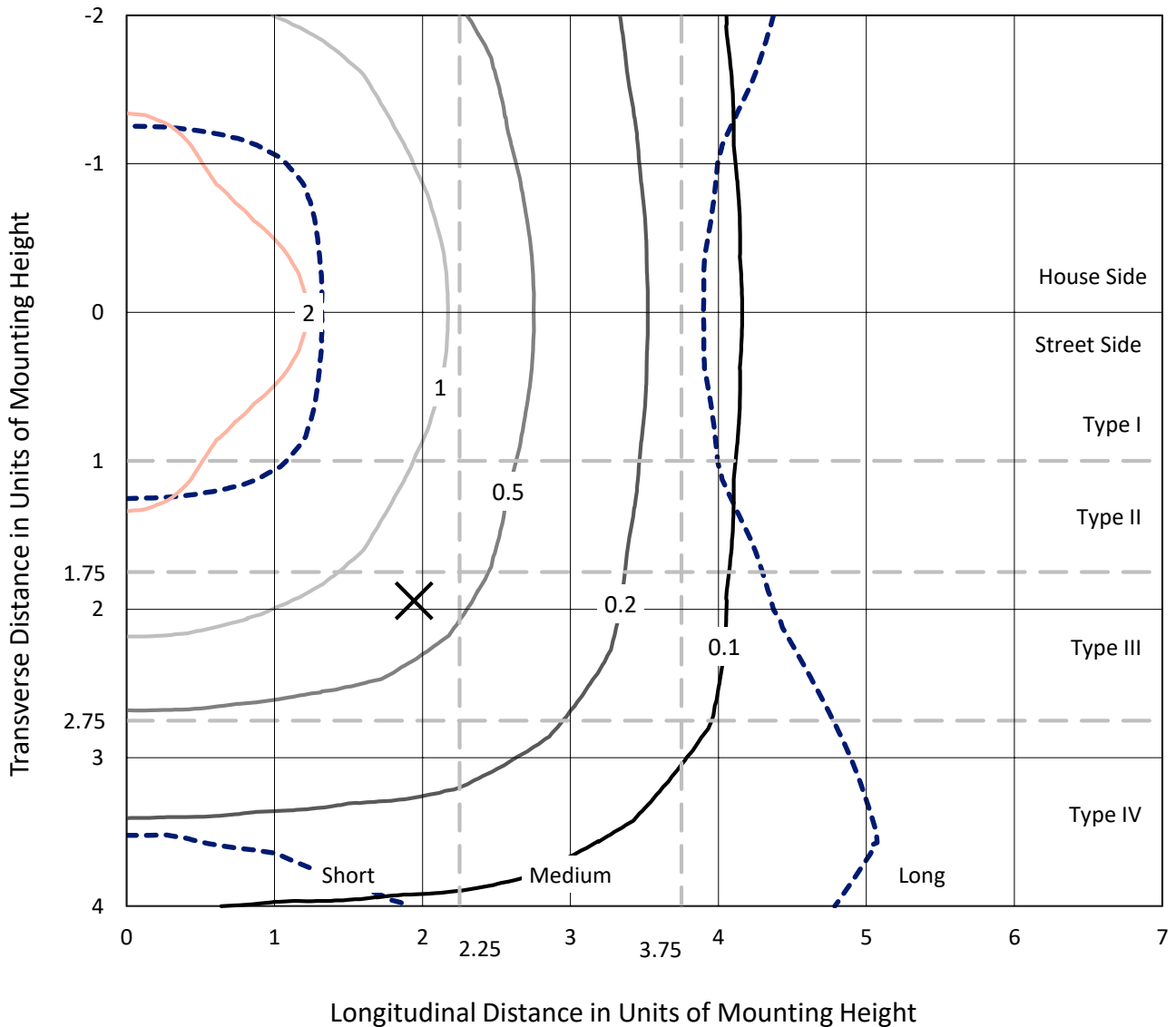
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

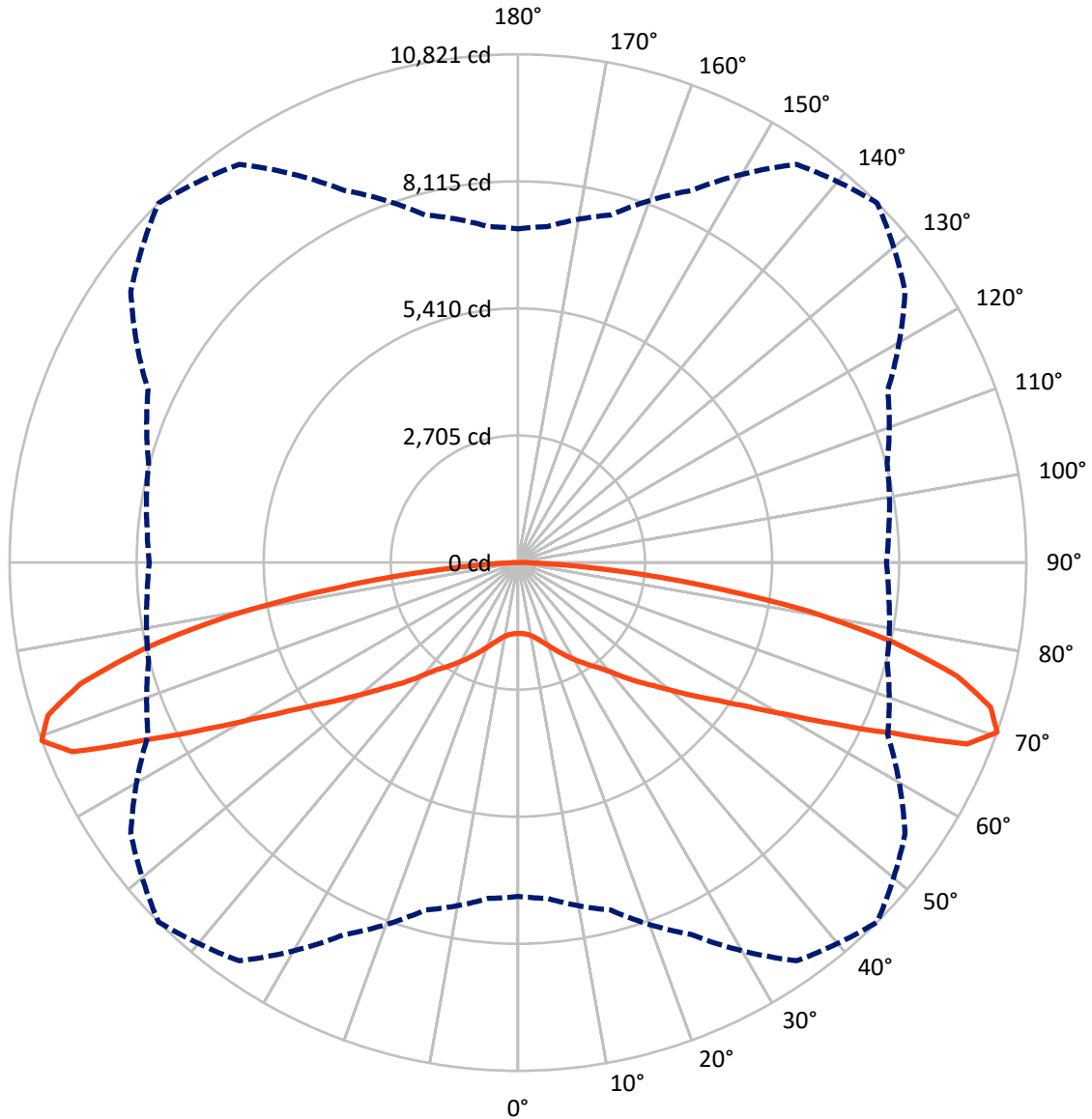
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14234.5	0.0	14234.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14234.5	0.0	14234.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28469.0	0.0	28469.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	0.5
10°-20°	490.2	1.7
20°-30°	980.3	3.4
30°-40°	1705.6	6.0
40°-50°	2967.5	10.4
50°-60°	5166.7	18.1
60°-70°	8367.8	29.4
70°-80°	7178.7	25.2
80°-90°	1464.3	5.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28469.0	100.0
0°-180°	28469.0	100.0



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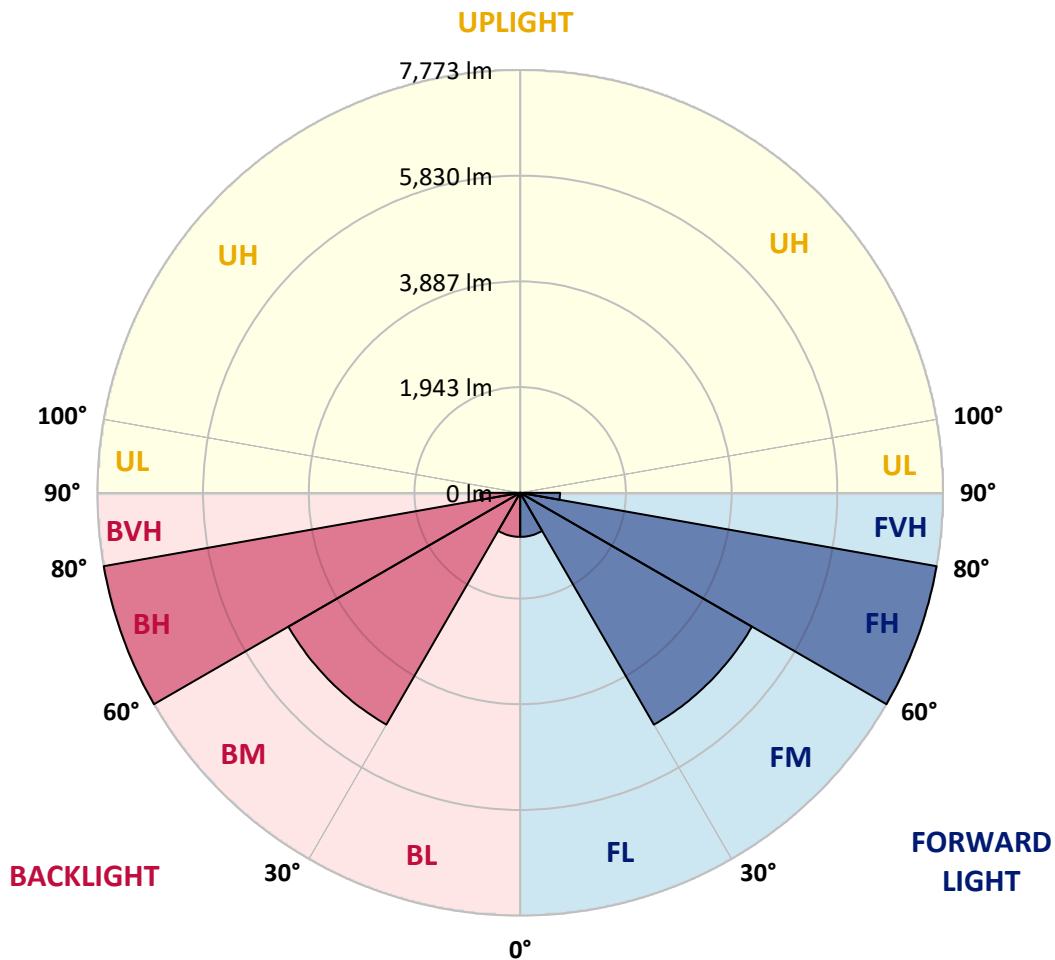
CATALOG NUMBER: VERD-M-CA4-190-740-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.2	2.8			
FM	(30°-60°)	4919.9	17.3			
FH	(60°-80°)	7773.2	27.3			G4/12000
FVH	(80°-90°)	732.1	2.6			G4/750
BL	(0°-30°)	809.2	2.8	B2/1000		
BM	(30°-60°)	4919.9	17.3	B3/5000		
BH	(60°-80°)	7773.2	27.3	B5		G4/12000
BVH	(80°-90°)	732.1	2.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1509.2	1518.0	1516.7	1514.2	1510.5	1510.5	1513.0	1521.7	1523.0	1523.0	1523.0
5°	1526.7	1535.5	1534.2	1531.7	1528.0	1526.7	1529.2	1538.0	1539.2	1539.2	1540.5
7.5°	1546.7	1556.7	1556.7	1555.4	1546.7	1546.7	1549.2	1560.4	1560.4	1562.9	1565.4
10°	1580.4	1591.7	1595.4	1590.4	1585.4	1582.9	1585.4	1596.7	1595.4	1592.9	1594.2
12.5°	1626.7	1637.9	1646.6	1645.4	1640.4	1637.9	1640.4	1646.6	1639.1	1629.2	1629.2
15°	1684.1	1699.1	1709.1	1709.1	1715.4	1711.6	1707.9	1709.1	1697.9	1689.1	1689.1
17.5°	1757.8	1770.3	1779.1	1786.6	1796.6	1796.6	1787.8	1785.3	1770.3	1762.8	1764.1
20°	1847.8	1857.8	1870.3	1876.5	1896.5	1897.8	1882.8	1876.5	1861.5	1851.5	1854.0
22.5°	1945.2	1962.7	1967.7	1986.5	2010.2	2011.5	1991.5	1977.7	1962.7	1955.2	1956.5
25°	2062.7	2080.2	2076.4	2092.7	2128.9	2132.6	2110.2	2090.2	2077.7	2070.2	2072.7
27.5°	2191.4	2208.9	2207.6	2207.6	2250.1	2266.3	2235.1	2213.9	2216.3	2202.6	2207.6
30°	2328.8	2343.8	2352.5	2337.5	2378.8	2405.0	2355.0	2357.5	2356.3	2347.5	2346.3
32.5°	2490.0	2503.7	2502.5	2492.5	2504.9	2542.4	2502.5	2514.9	2518.7	2519.9	2529.9
35°	2673.6	2689.9	2672.4	2658.6	2659.9	2696.1	2666.1	2686.1	2706.1	2713.6	2713.6
37.5°	2869.8	2878.5	2859.8	2838.5	2833.5	2853.5	2848.5	2881.0	2914.7	2933.5	2943.5
40°	3123.4	3130.9	3094.6	3053.4	3045.9	3068.4	3074.7	3145.9	3197.1	3232.1	3238.3
42.5°	3475.7	3474.4	3423.2	3347.0	3310.8	3345.8	3390.7	3473.2	3559.4	3566.9	3593.1
45°	3929.2	3911.7	3845.5	3731.8	3640.6	3628.1	3681.8	3804.3	3900.5	3941.7	3957.9
47.5°	4446.4	4426.5	4306.5	4130.4	3974.2	3925.5	3970.4	4124.1	4267.8	4327.8	4360.2
50°	5023.6	4999.9	4878.7	4640.1	4380.2	4291.5	4319.0	4510.2	4677.6	4753.8	4811.3
52.5°	5644.6	5640.8	5485.9	5211.0	4863.7	4720.1	4711.3	4941.2	5166.1	5267.3	5298.5
55°	6310.5	6291.7	6153.1	5854.5	5452.2	5183.6	5184.8	5439.7	5714.5	5847.0	5862.0
57.5°	6963.9	6956.4	6802.7	6547.9	6136.8	5783.2	5748.3	6086.8	6364.2	6472.9	6477.9
60°	7581.1	7604.8	7524.8	7291.2	6960.1	6560.3	6509.1	6795.2	7031.4	7125.1	7158.8
62.5°	8268.2	8275.7	8265.7	8093.3	7840.9	7571.1	7444.9	7591.1	7824.7	7902.1	7885.9
65°	8759.2	8807.9	8921.6	9010.3	8956.6	8750.5	8584.3	8591.8	8638.0	8588.0	8584.3
67.5°	8133.3	8239.5	8626.8	9250.2	9984.8	10305.9	9631.3	8877.9	8598.0	8416.9	8415.6
70°	7106.3	7177.5	7661.0	8739.2	10348.4	10820.6	10059.8	8685.5	8137.0	7922.1	7845.9
72.5°	6045.6	6101.8	6634.1	7734.7	9771.2	10517.0	9786.2	8120.8	7398.7	6925.2	6933.9
75°	5034.9	5026.1	5428.4	6559.1	8649.3	9658.7	9061.5	7227.5	6199.3	5768.3	5719.5
77.5°	3490.7	3570.6	4027.9	5183.6	7012.6	8173.3	8085.8	5949.4	4751.3	4291.5	4321.5
80°	1829.1	1879.0	2421.2	3519.4	5131.1	6269.2	6154.3	4207.8	3069.7	2561.2	2465.0
82.5°	762.1	794.6	1106.9	1901.5	3135.9	3901.7	3849.3	2564.9	1711.6	1191.9	1189.4
85°	323.6	324.8	469.8	814.6	1582.9	1854.0	1488.0	1101.9	599.7	376.1	336.1
87.5°	137.4	142.4	191.2	373.6	501.0	404.8	238.6	147.4	98.7	60.0	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)