

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: P510186

Luminaire Tested: **VERD-M-CA4-220-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510186
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-CA4-220-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32126 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

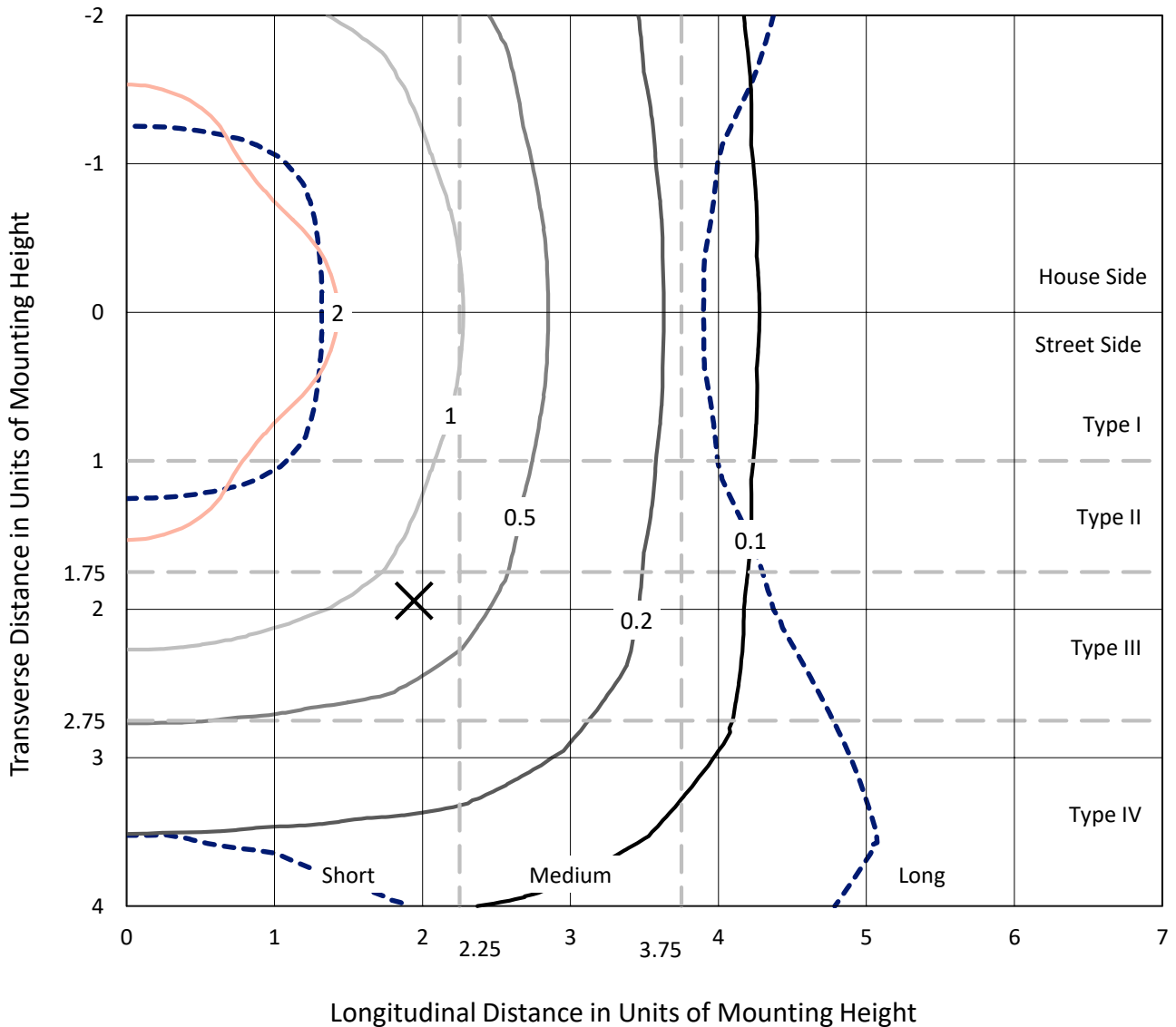
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

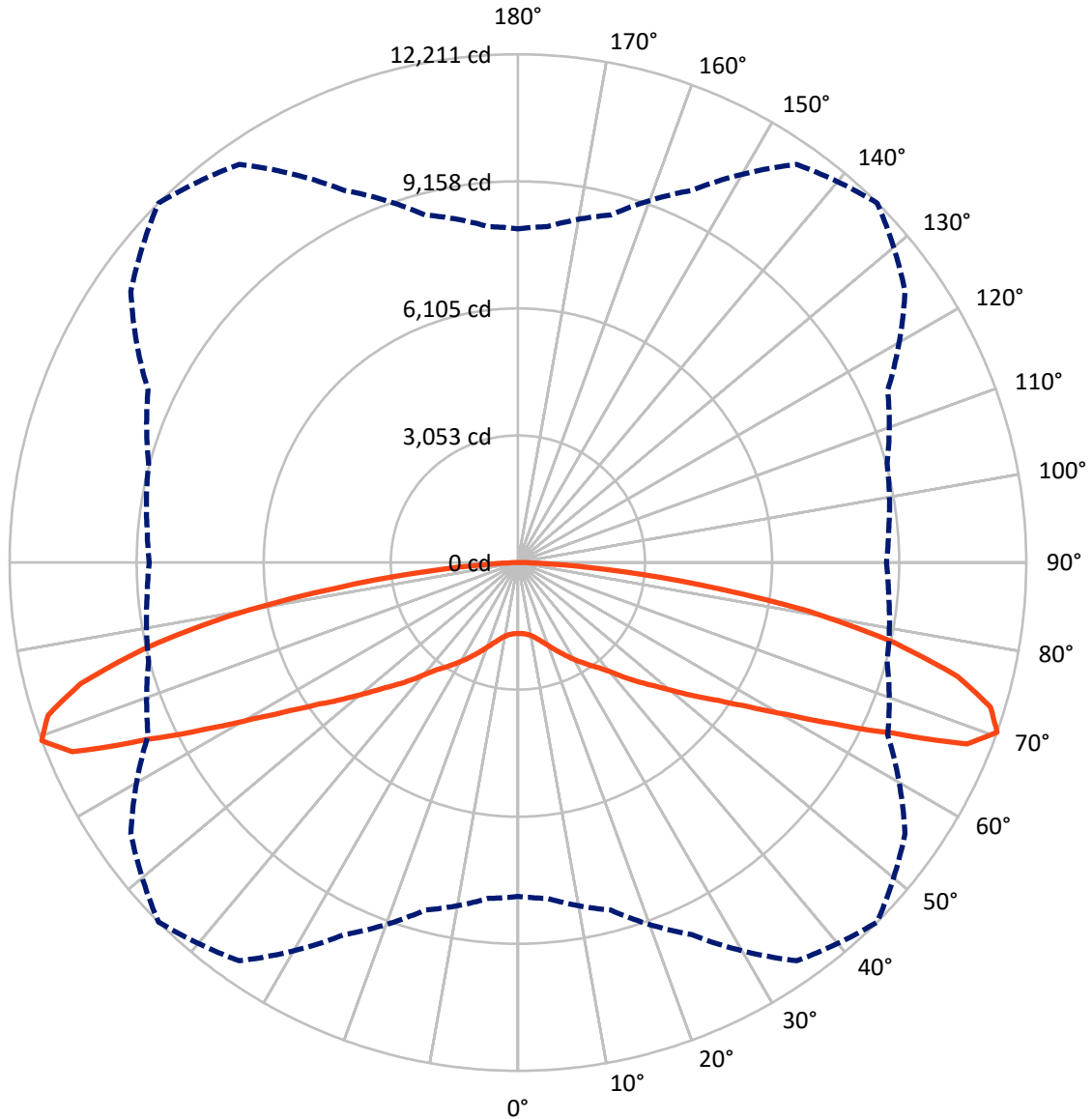
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	16063.0	0.0	16063.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16063.0	0.0	16063.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32126.0	0.0	32126.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	0.5
10°-20°	553.1	1.7
20°-30°	1106.2	3.4
30°-40°	1924.7	6.0
40°-50°	3348.6	10.4
50°-60°	5830.3	18.1
60°-70°	9442.7	29.4
70°-80°	8100.8	25.2
80°-90°	1652.4	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°	32126.0	100.0
0°-180°	32126.0	100.0



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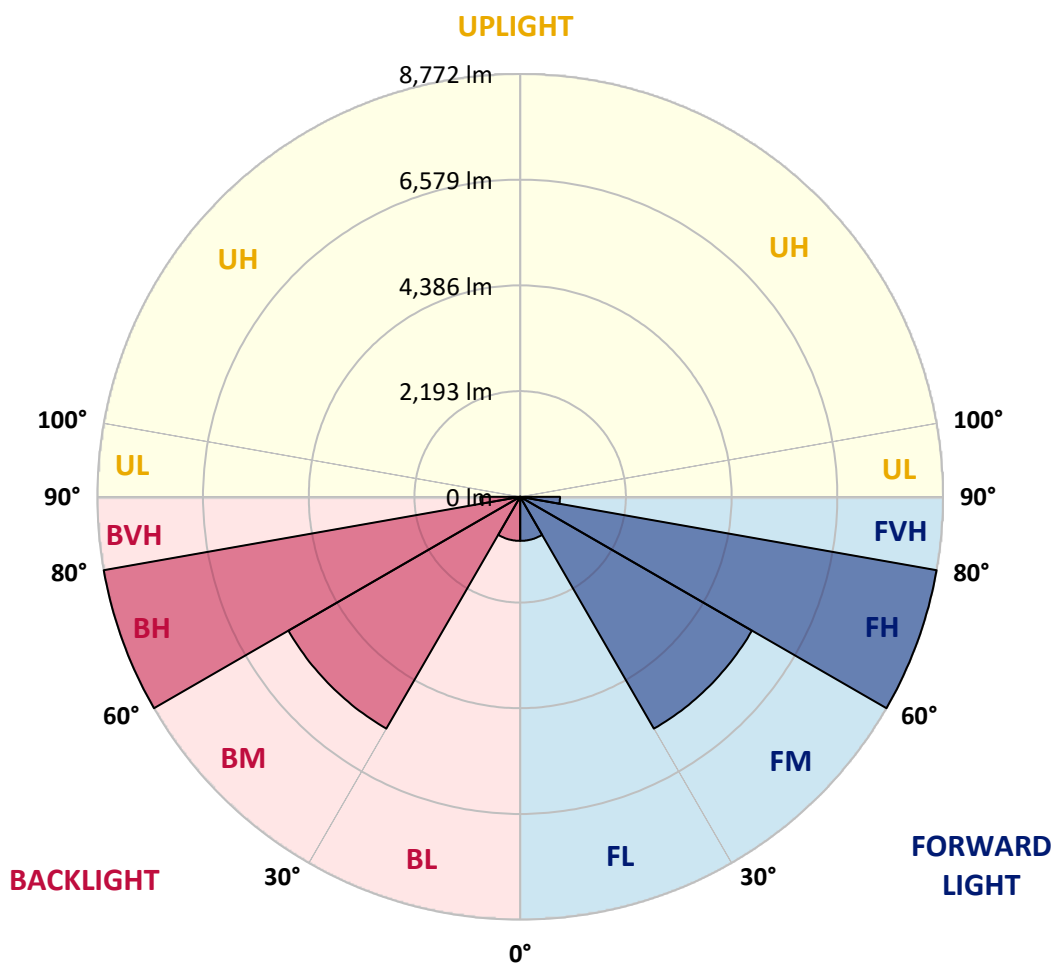
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.2	2.8			
FM (30°-60°)	5551.9	17.3			
FH (60°-80°)	8771.8	27.3			G4/12000
FVH (80°-90°)	826.2	2.6			G5
BL (0°-30°)	913.2	2.8	B2/1000		
BM (30°-60°)	5551.9	17.3	B4/8500		
BH (60°-80°)	8771.8	27.3	B5		G4/12000
BVH (80°-90°)	826.2	2.6			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7	1708.7
2.5°	1703.1	1713.0	1711.5	1708.7	1704.5	1704.5	1707.3	1717.2	1718.6	1718.6	1718.6
5°	1722.8	1732.7	1731.3	1728.5	1724.2	1722.8	1725.6	1735.5	1736.9	1736.9	1738.3
7.5°	1745.4	1756.7	1756.7	1755.2	1745.4	1745.4	1748.2	1760.9	1760.9	1763.7	1766.5
10°	1783.4	1796.1	1800.4	1794.7	1789.1	1786.3	1789.1	1801.8	1800.4	1797.5	1799.0
12.5°	1835.6	1848.3	1858.2	1856.8	1851.1	1848.3	1851.1	1858.2	1849.7	1838.4	1838.4
15°	1900.5	1917.4	1928.7	1928.7	1935.7	1931.5	1927.2	1928.7	1916.0	1906.1	1906.1
17.5°	1983.6	1997.7	2007.6	2016.1	2027.3	2027.3	2017.5	2014.7	1997.7	1989.3	1990.7
20°	2085.1	2096.4	2110.5	2117.6	2140.1	2141.5	2124.6	2117.6	2100.7	2089.4	2092.2
22.5°	2195.1	2214.9	2220.5	2241.6	2268.4	2269.8	2247.3	2231.8	2214.9	2206.4	2207.8
25°	2327.6	2347.4	2343.2	2361.5	2402.4	2406.6	2381.2	2358.7	2344.6	2336.1	2338.9
27.5°	2472.9	2492.6	2491.2	2491.2	2539.1	2557.4	2522.2	2498.2	2501.1	2485.5	2491.2
30°	2627.9	2644.9	2654.7	2637.8	2684.3	2713.9	2657.5	2660.4	2659.0	2649.1	2647.7
32.5°	2809.8	2825.3	2823.9	2812.6	2826.7	2869.0	2823.9	2838.0	2842.2	2843.6	2854.9
35°	3017.1	3035.4	3015.6	3000.1	3001.5	3042.4	3008.6	3031.2	3053.7	3062.2	3062.2
37.5°	3238.4	3248.3	3227.1	3203.2	3197.5	3220.1	3214.4	3251.1	3289.2	3310.3	3321.6
40°	3524.6	3533.1	3492.2	3445.6	3437.2	3462.6	3469.6	3550.0	3607.8	3647.3	3654.3
42.5°	3922.2	3920.8	3863.0	3777.0	3736.1	3775.5	3826.3	3919.3	4016.6	4025.1	4054.7
45°	4433.9	4414.2	4339.5	4211.2	4108.3	4094.2	4154.8	4293.0	4401.5	4448.0	4466.4
47.5°	5017.6	4995.1	4859.7	4660.9	4484.7	4429.7	4480.5	4653.9	4816.0	4883.7	4920.3
50°	5669.0	5642.2	5505.4	5236.1	4942.9	4842.8	4873.8	5089.5	5278.4	5364.4	5429.3
52.5°	6369.6	6365.4	6190.6	5880.4	5488.5	5326.4	5316.5	5575.9	5829.7	5943.9	5979.1
55°	7121.1	7099.9	6943.5	6606.5	6152.5	5849.4	5850.8	6138.4	6448.6	6598.0	6615.0
57.5°	7858.4	7850.0	7676.6	7389.0	6925.1	6526.1	6486.7	6868.7	7181.7	7304.4	7310.0
60°	8554.9	8581.7	8491.5	8227.8	7854.2	7403.1	7345.3	7668.1	7934.6	8040.3	8078.4
62.5°	9330.3	9338.8	9327.5	9132.9	8848.1	8543.6	8401.2	8566.2	8829.8	8917.2	8898.9
65°	9884.4	9939.4	10067.7	10167.7	10107.1	9874.5	9687.0	9695.5	9747.6	9691.2	9687.0
67.5°	9178.0	9297.9	9734.9	10438.4	11267.4	11629.8	10868.4	10018.3	9702.5	9498.1	9496.7
70°	8019.2	8099.5	8645.1	9861.8	11677.7	12210.6	11352.0	9801.2	9182.3	8939.8	8853.8
72.5°	6822.2	6885.6	7486.2	8728.3	11026.3	11868.0	11043.3	9163.9	8349.1	7814.7	7824.6
75°	5681.6	5671.8	6125.7	7401.6	9760.3	10899.5	10225.6	8155.9	6995.6	6509.2	6454.2
77.5°	3939.1	4029.3	4545.3	5849.4	7913.4	9223.2	9124.5	6713.6	5361.6	4842.8	4876.6
80°	2064.0	2120.4	2732.3	3971.5	5790.2	7074.6	6944.9	4748.3	3464.0	2890.2	2781.6
82.5°	860.0	896.7	1249.1	2145.8	3538.7	4402.9	4343.7	2894.4	1931.5	1345.0	1342.2
85°	365.1	366.6	530.1	919.2	1786.3	2092.2	1679.1	1243.5	676.7	424.4	379.2
87.5°	155.1	160.7	215.7	421.5	565.3	456.8	269.3	166.4	111.4	67.7	52.2
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)