

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: P510114

Luminaire Tested: **VERD-M-CA4-210-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510114
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-CA4-210-722-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25269 lumens
Efficiency: N/A
Efficacy: 118.3 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

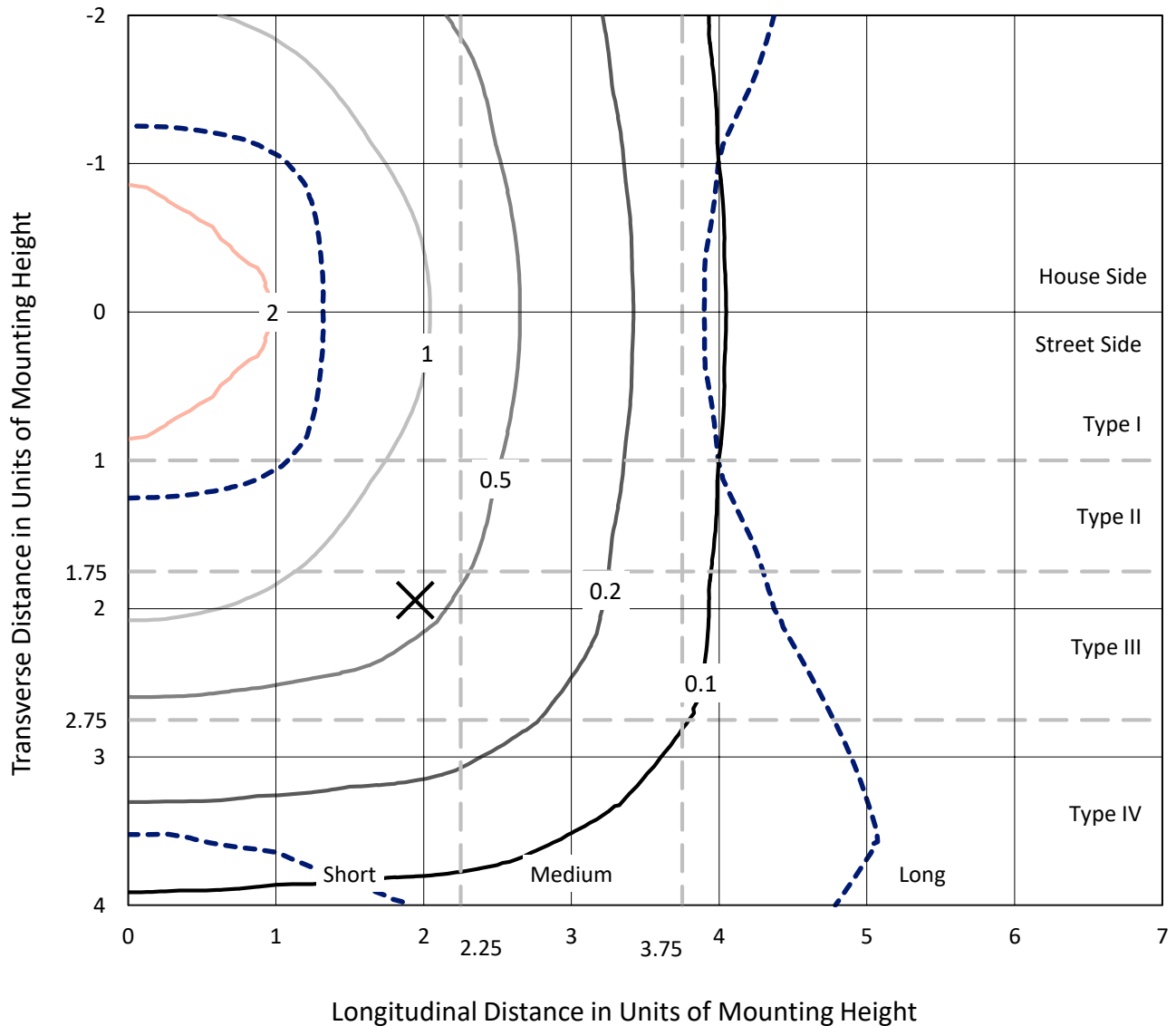
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

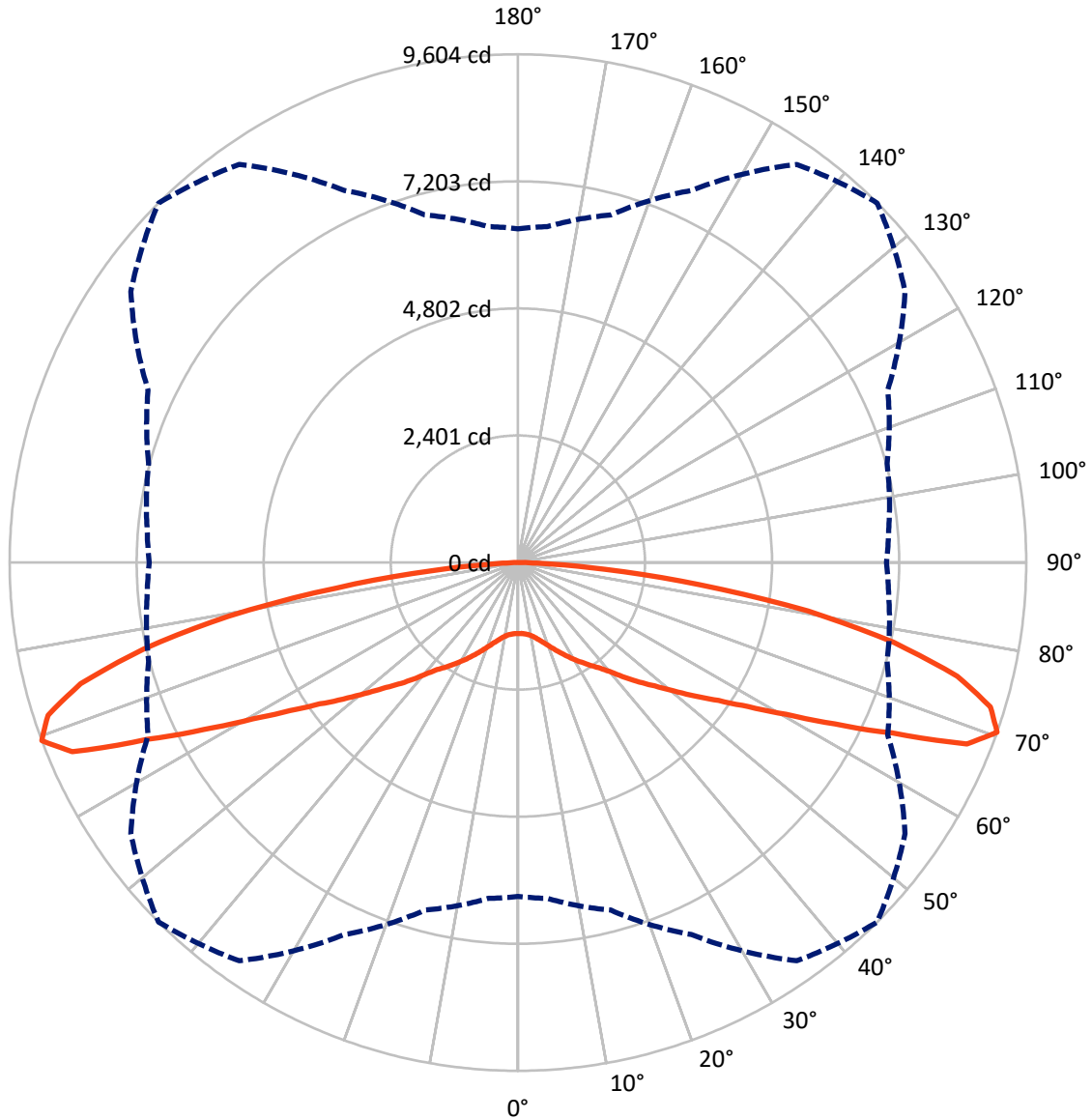
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	12634.5	0.0	12634.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12634.5	0.0	12634.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25269.0	0.0	25269.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	0.5
10°-20°	435.1	1.7
20°-30°	870.1	3.4
30°-40°	1513.9	6.0
40°-50°	2633.9	10.4
50°-60°	4585.9	18.1
60°-70°	7427.3	29.4
70°-80°	6371.8	25.2
80°-90°	1299.7	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°	25269.0	100.0
0°-180°	25269.0	100.0



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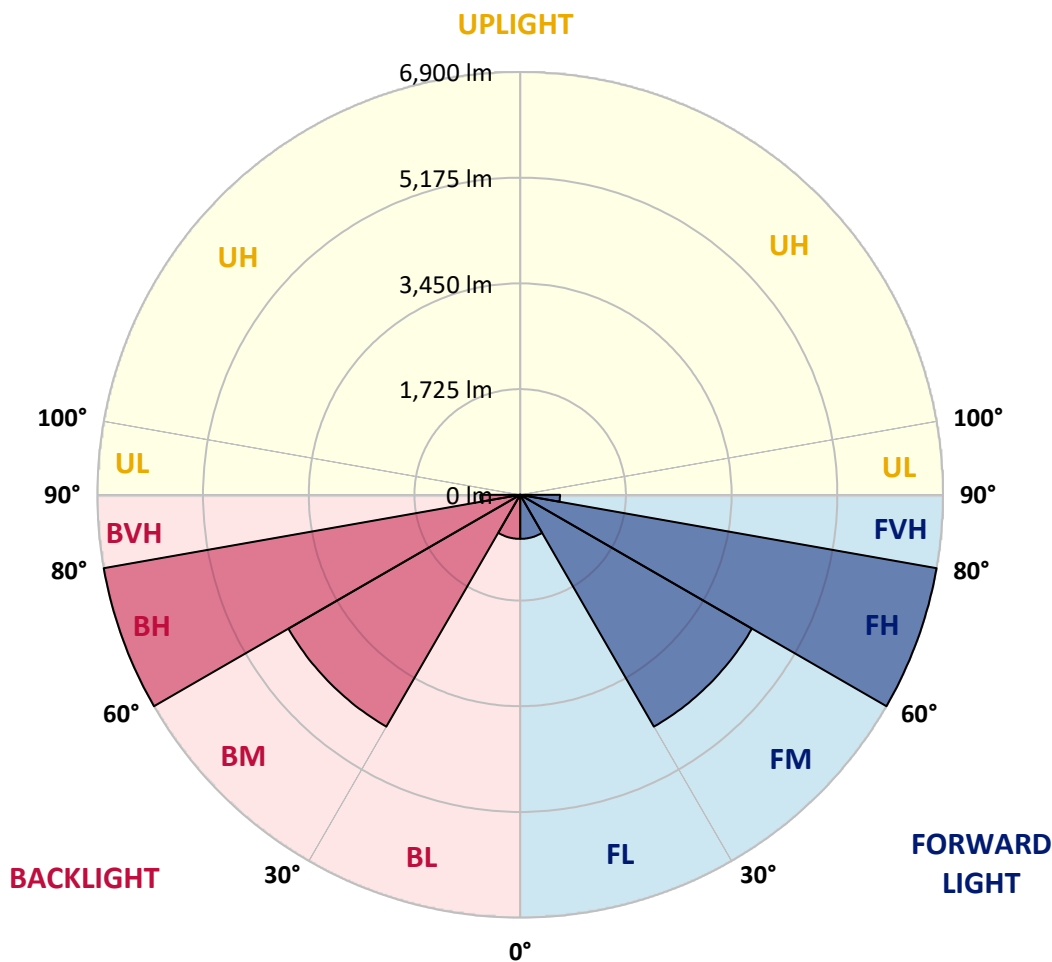
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.3	2.8			
FM (30°-60°)	4366.9	17.3			
FH (60°-80°)	6899.5	27.3			G3/7500
FVH (80°-90°)	649.8	2.6			G4/750
BL (0°-30°)	718.3	2.8	B2/1000		
BM (30°-60°)	4366.9	17.3	B3/5000		
BH (60°-80°)	6899.5	27.3	B5		G3/7500
BVH (80°-90°)	649.8	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°	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1339.6	1347.3	1346.2	1344.0	1340.7	1340.7	1342.9	1350.7	1351.8	1351.8	1351.8
5°	1355.1	1362.9	1361.8	1359.5	1356.2	1355.1	1357.3	1365.1	1366.2	1366.2	1367.3
7.5°	1372.8	1381.7	1381.7	1380.6	1372.8	1372.8	1375.1	1385.0	1385.0	1387.3	1389.5
10°	1402.8	1412.8	1416.1	1411.7	1407.2	1405.0	1407.2	1417.2	1416.1	1413.9	1415.0
12.5°	1443.8	1453.8	1461.6	1460.4	1456.0	1453.8	1456.0	1461.6	1454.9	1446.0	1446.0
15°	1494.8	1508.1	1517.0	1517.0	1522.5	1519.2	1515.9	1517.0	1507.0	1499.3	1499.3
17.5°	1560.3	1571.3	1579.1	1585.8	1594.6	1594.6	1586.9	1584.6	1571.3	1564.7	1565.8
20°	1640.1	1649.0	1660.1	1665.6	1683.3	1684.5	1671.1	1665.6	1652.3	1643.4	1645.6
22.5°	1726.6	1742.1	1746.6	1763.2	1784.3	1785.4	1767.6	1755.4	1742.1	1735.5	1736.6
25°	1830.8	1846.4	1843.0	1857.4	1889.6	1892.9	1873.0	1855.2	1844.1	1837.5	1839.7
27.5°	1945.0	1960.6	1959.5	1959.5	1997.2	2011.6	1983.9	1965.0	1967.2	1955.0	1959.5
30°	2067.0	2080.3	2088.1	2074.8	2111.4	2134.7	2090.3	2092.5	2091.4	2083.7	2082.6
32.5°	2210.1	2222.3	2221.2	2212.3	2223.4	2256.7	2221.2	2232.3	2235.6	2236.7	2245.6
35°	2373.1	2387.5	2372.0	2359.8	2360.9	2393.1	2366.4	2384.2	2401.9	2408.6	2408.6
37.5°	2547.2	2555.0	2538.3	2519.5	2515.0	2532.8	2528.3	2557.2	2587.1	2603.7	2612.6
40°	2772.3	2779.0	2746.8	2710.2	2703.5	2723.5	2729.1	2792.3	2837.7	2868.8	2874.3
42.5°	3085.0	3083.9	3038.4	2970.8	2938.6	2969.7	3009.6	3082.8	3159.3	3166.0	3189.3
45°	3487.6	3472.0	3413.3	3312.3	3231.4	3220.3	3268.0	3376.7	3462.1	3498.6	3513.1
47.5°	3946.6	3928.9	3822.4	3666.1	3527.5	3484.2	3524.2	3660.5	3788.1	3841.3	3870.1
50°	4459.0	4437.9	4330.3	4118.5	3887.9	3809.1	3833.5	4003.2	4151.8	4219.4	4270.5
52.5°	5010.1	5006.8	4869.3	4625.3	4317.0	4189.5	4181.7	4385.8	4585.4	4675.2	4702.9
55°	5601.2	5584.5	5461.4	5196.4	4839.3	4600.9	4602.0	4828.2	5072.2	5189.7	5203.1
57.5°	6181.1	6174.5	6038.1	5811.9	5447.0	5133.2	5102.1	5402.7	5648.8	5745.3	5749.8
60°	6728.9	6750.0	6679.0	6471.7	6177.8	5822.9	5777.5	6031.4	6241.0	6324.2	6354.1
62.5°	7338.8	7345.5	7336.6	7183.6	6959.6	6720.1	6608.1	6737.8	6945.2	7013.9	6999.5
65°	7774.6	7817.9	7918.8	7997.5	7949.9	7766.9	7619.4	7626.0	7667.1	7622.7	7619.4
67.5°	7219.1	7313.3	7657.1	8210.4	8862.5	9147.5	8548.7	7880.0	7631.6	7470.8	7469.7
70°	6307.5	6370.7	6799.9	7756.9	9185.2	9604.4	8929.0	7709.2	7222.4	7031.7	6964.0
72.5°	5366.1	5416.0	5888.4	6865.3	8672.9	9334.9	8686.2	7208.0	6567.0	6146.7	6154.5
75°	4469.0	4461.2	4818.3	5821.8	7677.1	8573.1	8043.0	6415.1	5502.5	5119.9	5076.6
77.5°	3098.3	3169.3	3575.2	4600.9	6224.4	7254.6	7176.9	5280.7	4217.2	3809.1	3835.8
80°	1623.5	1667.8	2149.1	3123.8	4554.3	5564.6	5462.5	3734.8	2724.6	2273.3	2187.9
82.5°	676.4	705.3	982.5	1687.8	2783.4	3463.2	3416.6	2276.6	1519.2	1057.9	1055.7
85°	287.2	288.3	417.0	723.0	1405.0	1645.6	1320.7	978.1	532.3	333.8	298.3
87.5°	122.0	126.4	169.7	331.6	444.7	359.3	211.8	130.9	87.6	53.2	41.0
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)