

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: P510138

Luminaire Tested: **VERD-M-CA4-210-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510138
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-CA4-210-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31005 lumens
Efficiency: N/A
Efficacy: 145.2 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

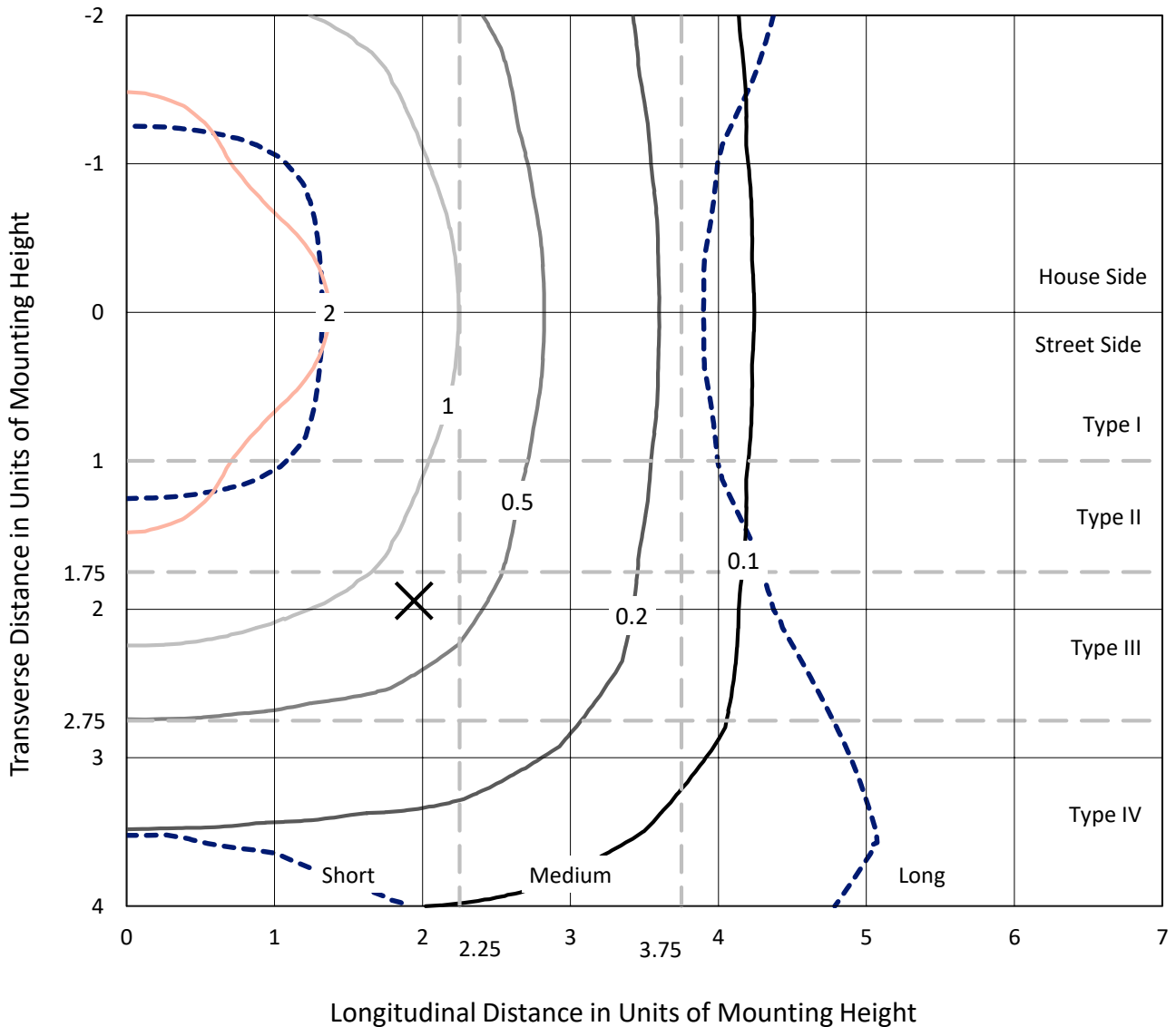
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

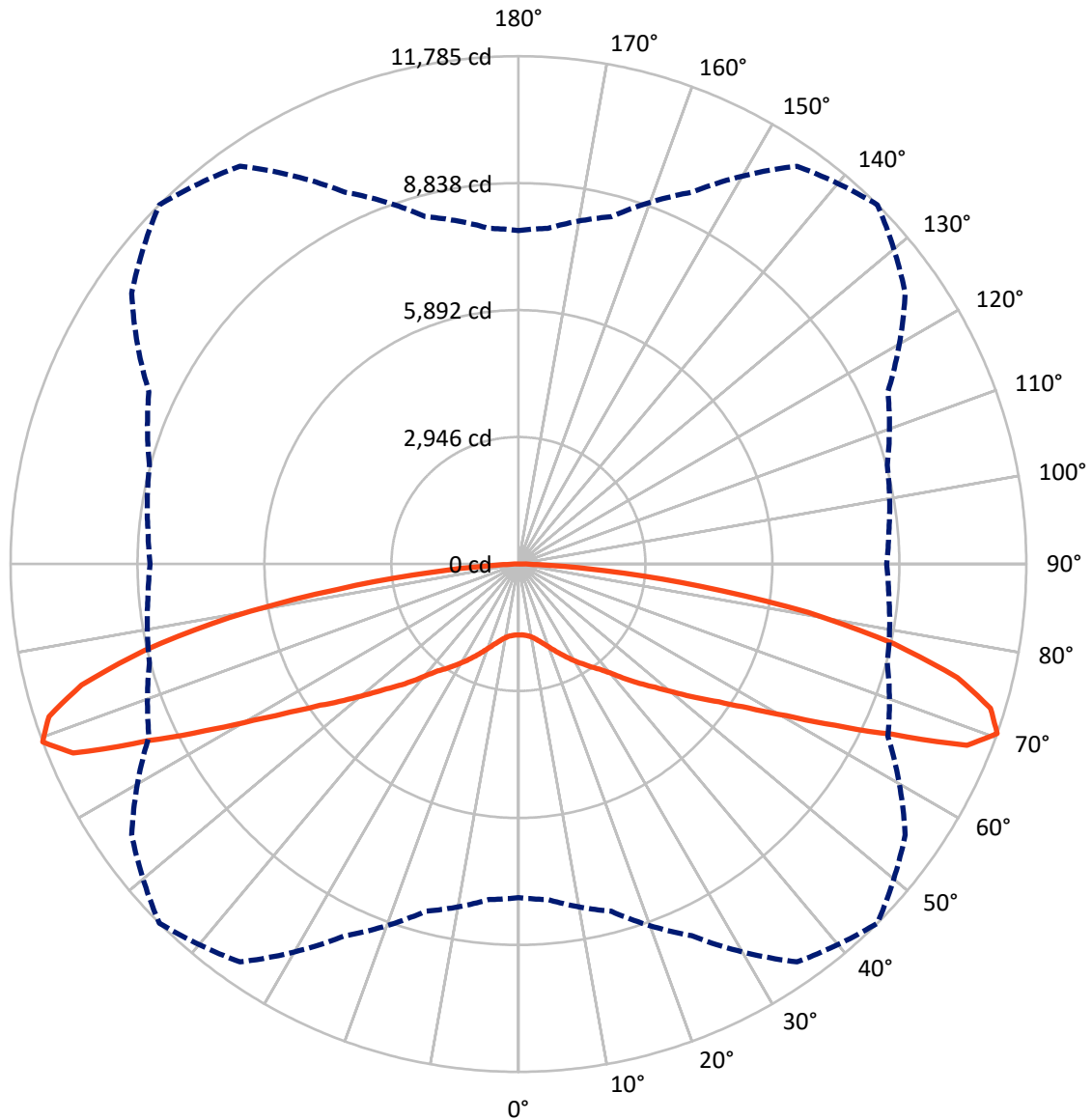
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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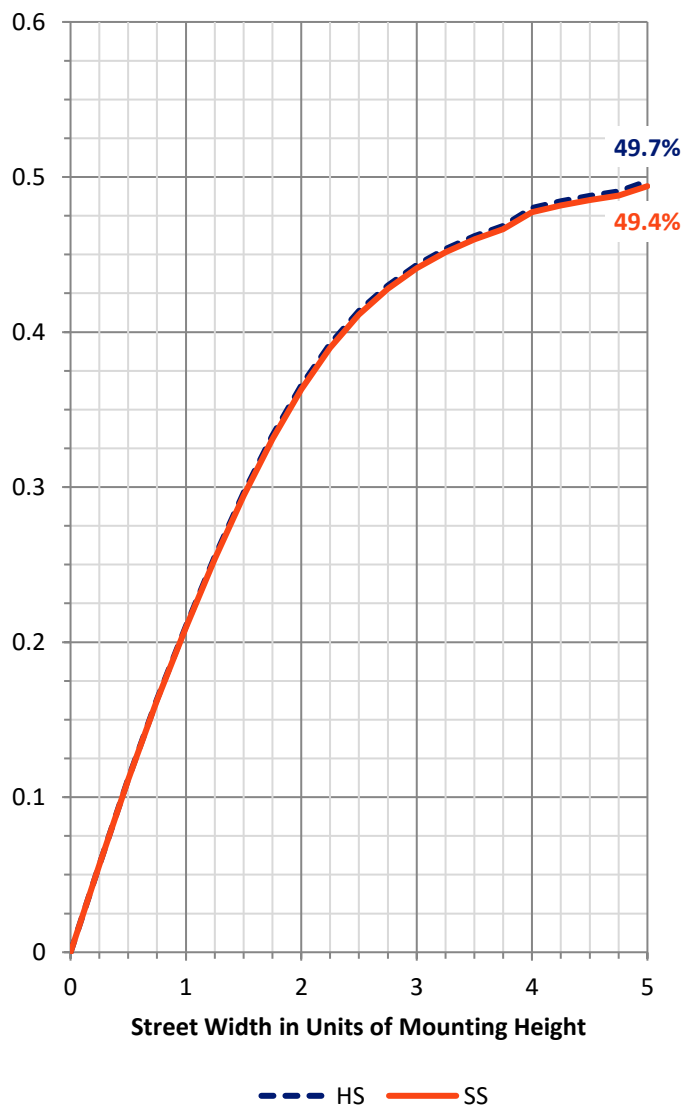
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15502.5	0.0	15502.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15502.5	0.0	15502.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31005.0	0.0	31005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	0.5
10°-20°	533.8	1.7
20°-30°	1067.6	3.4
30°-40°	1857.6	6.0
40°-50°	3231.8	10.4
50°-60°	5626.9	18.1
60°-70°	9113.2	29.4
70°-80°	7818.1	25.2
80°-90°	1594.7	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°	31005.0	100.0
0°-180°	31005.0	100.0

Coefficient of Utilization



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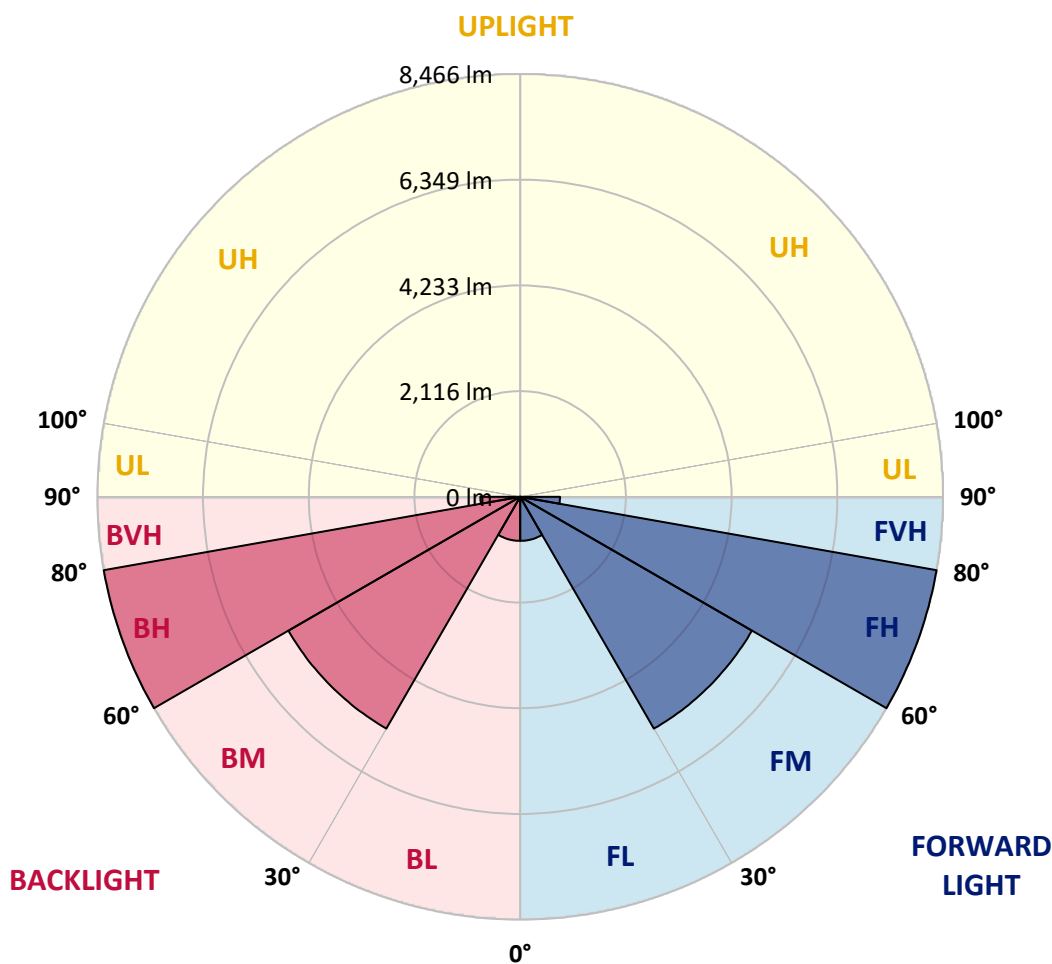
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.3	2.8			
FM (30°-60°)	5358.1	17.3			
FH (60°-80°)	8465.7	27.3			G4/12000
FVH (80°-90°)	797.4	2.6			G5
BL (0°-30°)	881.3	2.8	B2/1000		
BM (30°-60°)	5358.1	17.3	B4/8500		
BH (60°-80°)	8465.7	27.3	B5		G4/12000
BVH (80°-90°)	797.4	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°	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1	1649.1
2.5°	1643.7	1653.2	1651.8	1649.1	1645.0	1645.0	1647.7	1657.3	1658.6	1658.6	1658.6
5°	1662.7	1672.2	1670.9	1668.1	1664.1	1662.7	1665.4	1675.0	1676.3	1676.3	1677.7
7.5°	1684.5	1695.4	1695.4	1694.0	1684.5	1684.5	1687.2	1699.4	1699.4	1702.2	1704.9
10°	1721.2	1733.5	1737.5	1732.1	1726.7	1723.9	1726.7	1738.9	1737.5	1734.8	1736.2
12.5°	1771.6	1783.8	1793.3	1792.0	1786.5	1783.8	1786.5	1793.3	1785.2	1774.3	1774.3
15°	1834.1	1850.5	1861.4	1861.4	1868.2	1864.1	1860.0	1861.4	1849.1	1839.6	1839.6
17.5°	1914.4	1928.0	1937.6	1945.7	1956.6	1956.6	1947.1	1944.4	1928.0	1919.9	1921.2
20°	2012.4	2023.3	2036.9	2043.7	2065.5	2066.8	2050.5	2043.7	2027.4	2016.5	2019.2
22.5°	2118.5	2137.6	2143.0	2163.4	2189.3	2190.6	2168.9	2153.9	2137.6	2129.4	2130.8
25°	2246.4	2265.5	2261.4	2279.1	2318.5	2322.6	2298.1	2276.4	2262.7	2254.6	2257.3
27.5°	2386.6	2405.6	2404.3	2404.3	2450.5	2468.2	2434.2	2411.1	2413.8	2398.8	2404.3
30°	2536.2	2552.6	2562.1	2545.8	2590.7	2619.2	2564.8	2567.5	2566.2	2556.6	2555.3
32.5°	2711.8	2726.7	2725.4	2714.5	2728.1	2768.9	2725.4	2739.0	2743.1	2744.4	2755.3
35°	2911.8	2929.5	2910.4	2895.4	2896.8	2936.3	2903.6	2925.4	2947.2	2955.3	2955.3
37.5°	3125.4	3134.9	3114.5	3091.4	3085.9	3107.7	3102.3	3137.6	3174.4	3194.8	3205.7
40°	3401.6	3409.8	3370.3	3325.4	3317.2	3341.7	3348.5	3426.1	3481.9	3520.0	3526.8
42.5°	3785.3	3783.9	3728.2	3645.2	3605.7	3643.8	3692.8	3782.6	3876.5	3884.6	3913.2
45°	4279.2	4260.2	4188.1	4064.2	3964.9	3951.3	4009.8	4143.2	4247.9	4292.8	4310.5
47.5°	4842.5	4820.8	4690.1	4498.3	4328.2	4275.1	4324.1	4491.5	4648.0	4713.3	4748.6
50°	5471.1	5445.3	5313.3	5053.4	4770.4	4673.8	4703.7	4911.9	5094.2	5177.2	5239.8
52.5°	6147.4	6143.3	5974.6	5675.2	5297.0	5140.5	5131.0	5381.3	5626.3	5736.5	5770.5
55°	6872.6	6852.2	6701.2	6376.0	5937.8	5645.3	5646.7	5924.2	6223.6	6367.8	6384.1
57.5°	7584.2	7576.1	7408.7	7131.1	6683.5	6298.4	6260.3	6629.1	6931.1	7049.5	7054.9
60°	8256.4	8282.2	8195.2	7940.7	7580.1	7144.7	7089.0	7400.5	7657.7	7759.7	7796.5
62.5°	9004.7	9012.9	9002.0	8814.2	8539.4	8245.5	8108.1	8267.3	8521.7	8606.1	8588.4
65°	9539.5	9592.5	9716.4	9813.0	9754.4	9529.9	9349.0	9357.1	9407.5	9353.1	9349.0
67.5°	8857.8	8973.4	9395.2	10074.2	10874.3	11223.9	10489.2	9668.7	9363.9	9166.7	9165.3
70°	7739.3	7816.9	8343.5	9517.7	11270.2	11784.5	10955.9	9459.2	8861.9	8627.8	8544.8
72.5°	6584.2	6645.4	7225.0	8423.7	10641.6	11453.9	10657.9	8844.2	8057.7	7542.0	7551.6
75°	5483.4	5473.9	5912.0	7143.4	9419.7	10519.1	9868.7	7871.3	6751.5	6282.1	6229.0
77.5°	3801.6	3888.7	4386.7	5645.3	7637.3	8901.3	8806.1	6479.4	5174.5	4673.8	4706.5
80°	1992.0	2046.4	2636.9	3832.9	5588.2	6827.7	6702.5	4582.6	3343.1	2789.3	2684.5
82.5°	830.0	865.4	1205.5	2070.9	3415.2	4249.3	4192.1	2793.4	1864.1	1298.1	1295.3
85°	352.4	353.8	511.6	887.1	1723.9	2019.2	1620.5	1200.1	653.1	409.6	366.0
87.5°	149.7	155.1	208.2	406.8	545.6	440.8	259.9	160.6	107.5	65.3	50.3
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)