

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: P510034

Luminaire Tested: **VERD-M-CA4-190-730-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510034  
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-CA4-190-730-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 870mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27954 lumens  
Efficiency: N/A  
Efficacy: 144.8 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

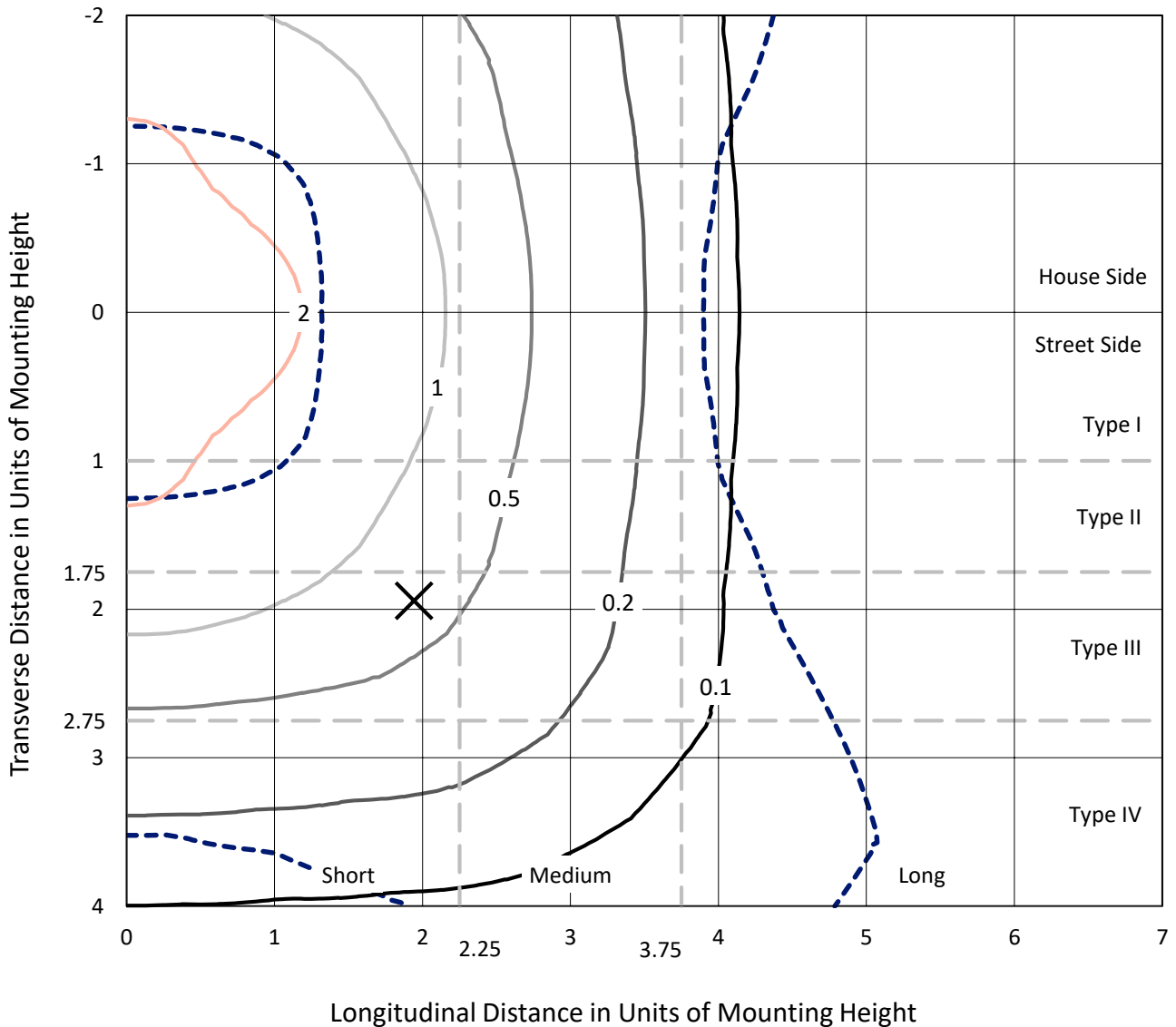
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

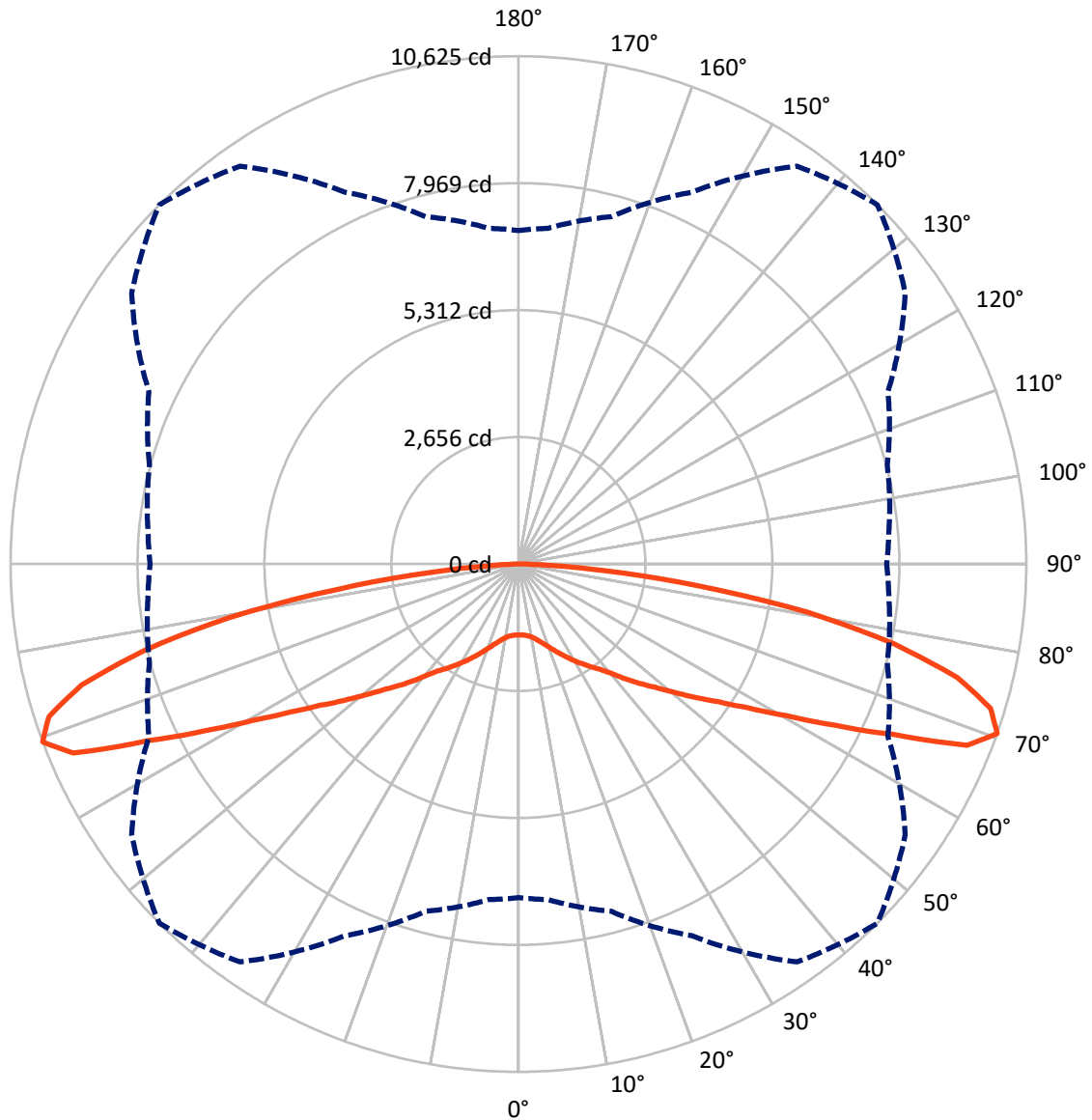
× Max cd  
 - - - 1/2 Max cd



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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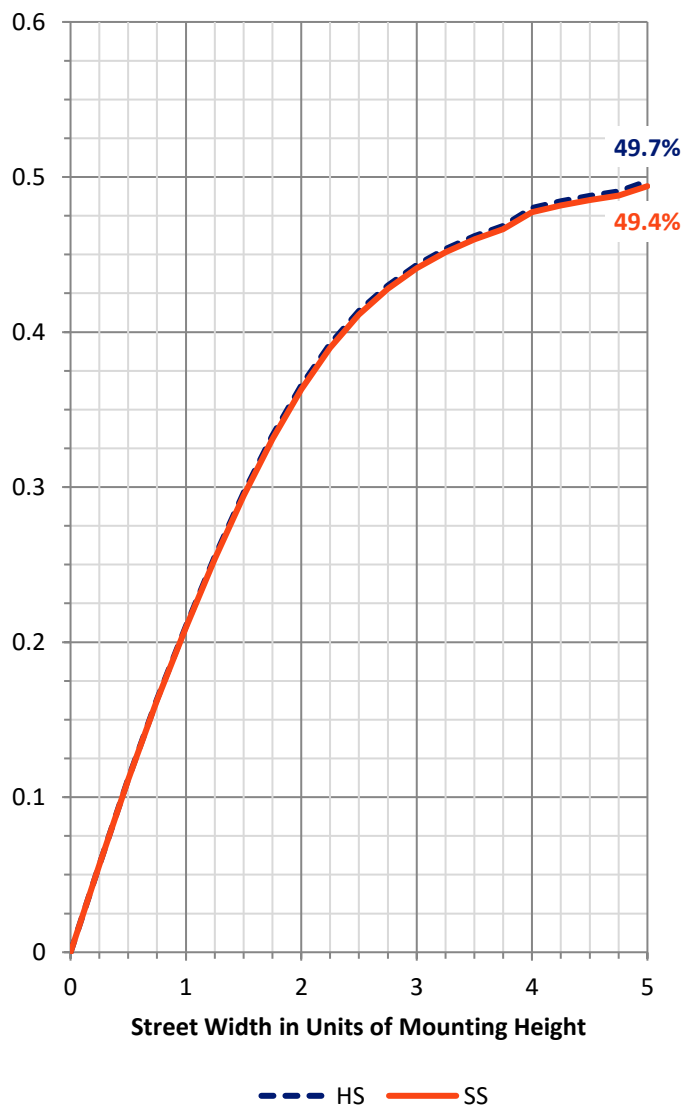
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13977.0	0.0	13977.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13977.0	0.0	13977.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27954.0	0.0	27954.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	0.5
10°-20°	481.3	1.7
20°-30°	962.5	3.4
30°-40°	1674.8	6.0
40°-50°	2913.8	10.4
50°-60°	5073.2	18.1
60°-70°	8216.5	29.4
70°-80°	7048.8	25.2
80°-90°	1437.8	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°	27954.0	100.0
0°-180°	27954.0	100.0

**Coefficient of Utilization**



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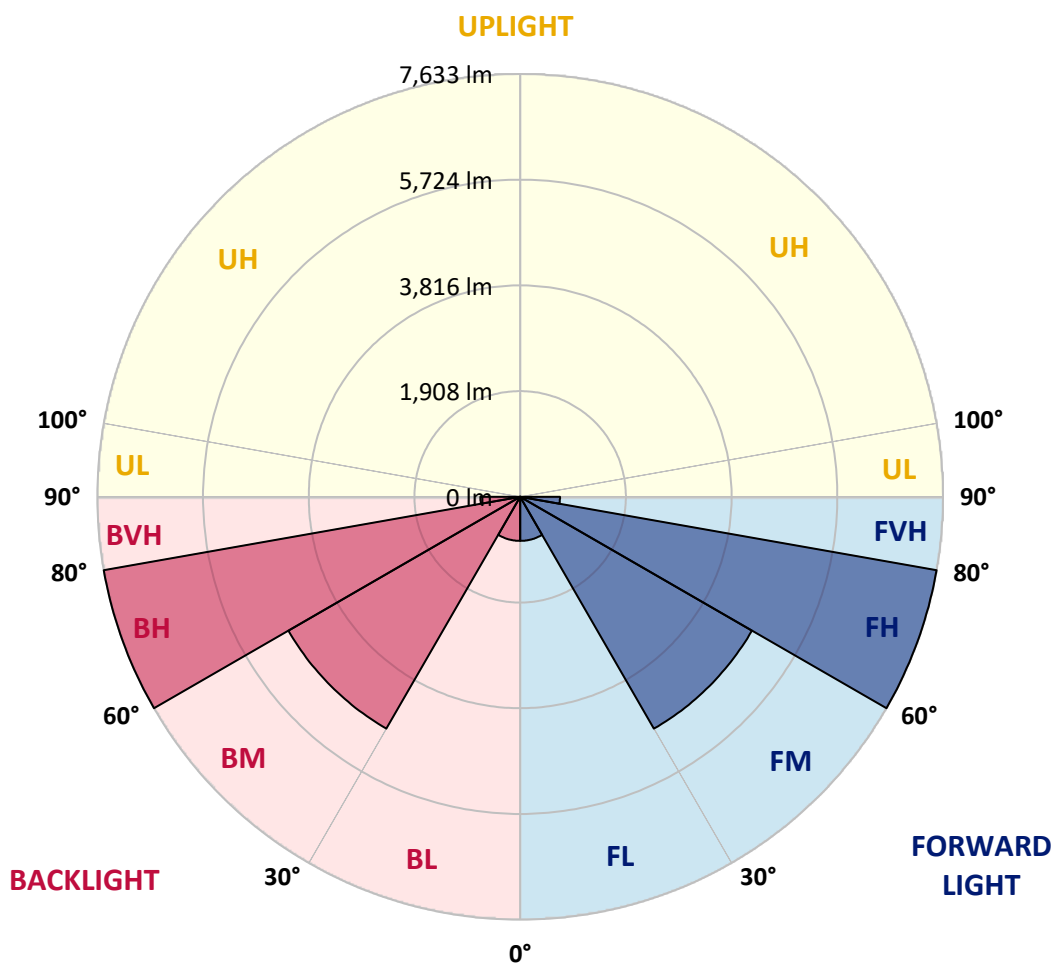
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.6	2.8			
FM (30°-60°)	4830.9	17.3			
FH (60°-80°)	7632.6	27.3			G4/12000
FVH (80°-90°)	718.9	2.6			G4/750
BL (0°-30°)	794.6	2.8	B2/1000		
BM (30°-60°)	4830.9	17.3	B3/5000		
BH (60°-80°)	7632.6	27.3	B5		G4/12000
BVH (80°-90°)	718.9	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°	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1481.9	1490.5	1489.3	1486.8	1483.1	1483.1	1485.6	1494.2	1495.4	1495.4	1495.4
5°	1499.1	1507.7	1506.5	1504.0	1500.3	1499.1	1501.5	1510.1	1511.4	1511.4	1512.6
7.5°	1518.7	1528.5	1528.5	1527.3	1518.7	1518.7	1521.2	1532.2	1532.2	1534.7	1537.1
10°	1551.8	1562.9	1566.6	1561.7	1556.7	1554.3	1556.7	1567.8	1566.6	1564.1	1565.3
12.5°	1597.2	1608.3	1616.9	1615.6	1610.7	1608.3	1610.7	1616.9	1609.5	1599.7	1599.7
15°	1653.7	1668.4	1678.2	1678.2	1684.3	1680.6	1677.0	1678.2	1667.2	1658.6	1658.6
17.5°	1726.0	1738.3	1746.9	1754.3	1764.1	1764.1	1755.5	1753.0	1738.3	1730.9	1732.2
20°	1814.4	1824.2	1836.4	1842.6	1862.2	1863.4	1848.7	1842.6	1827.9	1818.0	1820.5
22.5°	1910.1	1927.2	1932.1	1950.5	1973.8	1975.1	1955.4	1941.9	1927.2	1919.9	1921.1
25°	2025.4	2042.5	2038.9	2054.8	2090.4	2094.1	2072.0	2052.4	2040.1	2032.7	2035.2
27.5°	2151.7	2168.9	2167.7	2167.7	2209.4	2225.3	2194.7	2173.8	2176.3	2162.8	2167.7
30°	2286.7	2301.4	2310.0	2295.3	2335.7	2361.5	2312.4	2314.9	2313.7	2305.1	2303.8
32.5°	2444.9	2458.4	2457.2	2447.4	2459.6	2496.4	2457.2	2469.4	2473.1	2474.4	2484.2
35°	2625.2	2641.2	2624.0	2610.5	2611.8	2647.3	2617.9	2637.5	2657.1	2664.5	2664.5
37.5°	2817.8	2826.4	2808.0	2787.2	2782.3	2801.9	2797.0	2828.9	2862.0	2880.4	2890.2
40°	3066.9	3074.2	3038.7	2998.2	2990.8	3012.9	3019.0	3089.0	3139.3	3173.6	3179.7
42.5°	3412.8	3411.6	3361.3	3286.5	3250.9	3285.2	3329.4	3410.4	3495.0	3502.4	3528.1
45°	3858.1	3841.0	3775.9	3664.3	3574.8	3562.5	3615.2	3735.5	3829.9	3870.4	3886.3
47.5°	4366.0	4346.4	4228.6	4055.6	3902.3	3854.5	3898.6	4049.5	4190.6	4249.5	4281.4
50°	4932.8	4909.5	4790.5	4556.2	4301.0	4213.9	4240.9	4428.6	4593.0	4667.8	4724.2
52.5°	5542.5	5538.8	5386.7	5116.8	4775.7	4634.7	4626.1	4851.8	5072.6	5172.0	5202.7
55°	6196.3	6177.9	6041.7	5748.6	5353.5	5089.8	5091.0	5341.3	5611.2	5741.2	5755.9
57.5°	6837.9	6830.5	6679.7	6429.4	6025.8	5678.6	5644.3	5976.7	6249.1	6355.8	6360.7
60°	7443.9	7467.2	7388.7	7159.3	6834.2	6441.7	6391.4	6672.3	6904.2	6996.2	7029.3
62.5°	8118.6	8126.0	8116.2	7946.9	7699.1	7434.1	7310.2	7453.7	7683.1	7759.2	7743.3
65°	8600.8	8648.6	8760.2	8847.3	8794.6	8592.2	8429.0	8436.4	8481.8	8432.7	8429.0
67.5°	7986.1	8090.4	8470.7	9082.9	9804.2	10119.5	9457.0	8717.3	8442.5	8264.6	8263.4
70°	6977.8	7047.7	7522.4	8581.1	10161.2	10624.9	9877.8	8528.4	7989.8	7778.8	7704.0
72.5°	5936.2	5991.5	6514.0	7594.8	9594.4	10326.8	9609.1	7973.9	7264.8	6799.9	6808.5
75°	4943.8	4935.2	5330.2	6440.4	8492.8	9484.0	8897.6	7096.8	6087.1	5663.9	5616.1
77.5°	3427.5	3506.1	3955.0	5089.8	6885.8	8025.4	7939.5	5841.8	4665.3	4213.9	4243.3
80°	1796.0	1845.0	2377.4	3455.8	5038.3	6155.8	6043.0	4131.7	3014.1	2514.8	2420.4
82.5°	748.3	780.2	1086.9	1867.1	3079.1	3831.1	3779.6	2518.5	1680.6	1170.3	1167.9
85°	317.7	319.0	461.3	799.8	1554.3	1820.5	1461.1	1082.0	588.8	369.3	330.0
87.5°	134.9	139.8	187.7	366.8	491.9	397.5	234.3	144.8	96.9	58.9	45.4
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)