

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: P509954

Luminaire Tested: **VERD-M-CA3-170-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509954  
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-CA3-170-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25620 lumens  
Efficiency: N/A  
Efficacy: 148.3 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

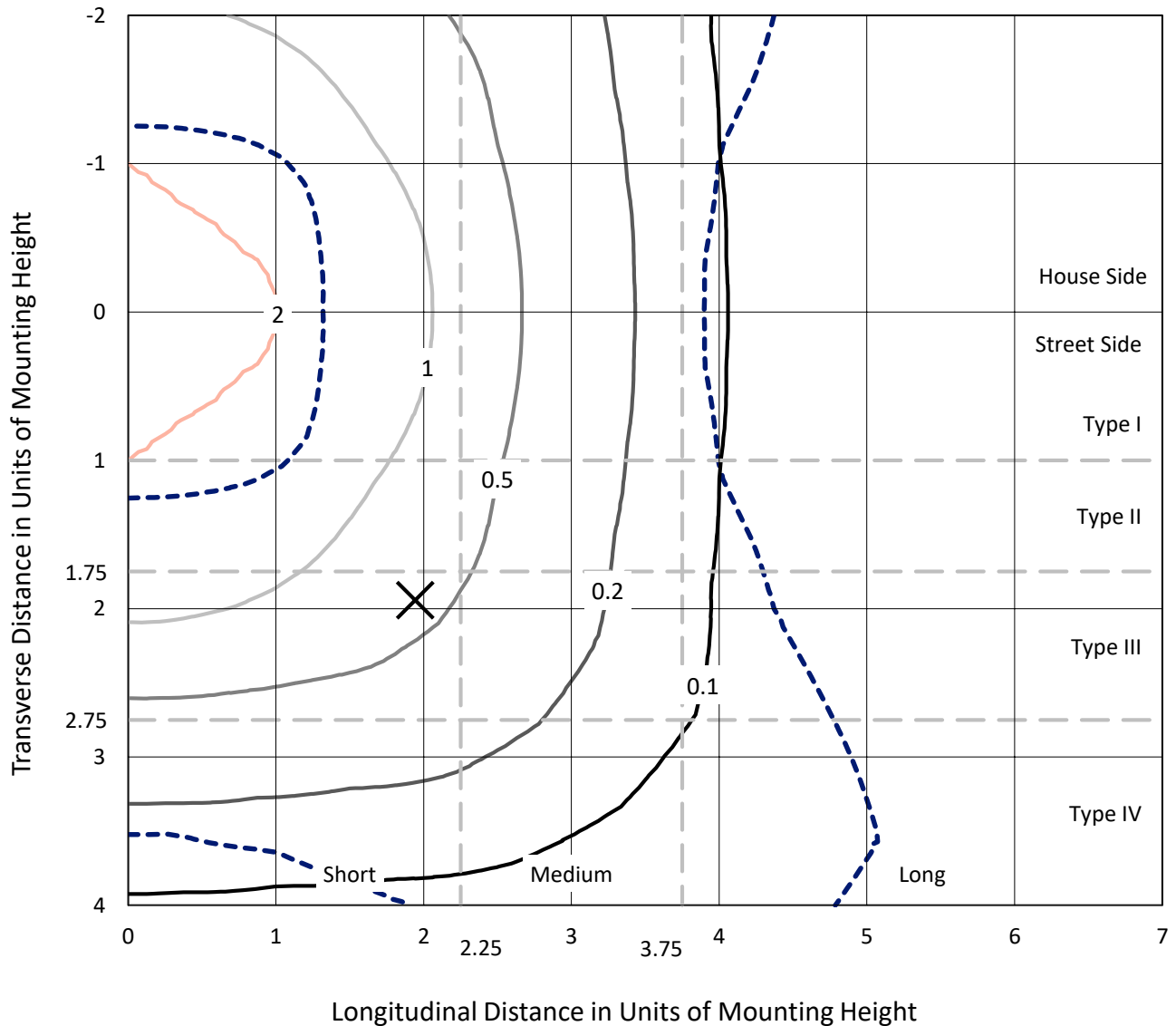
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

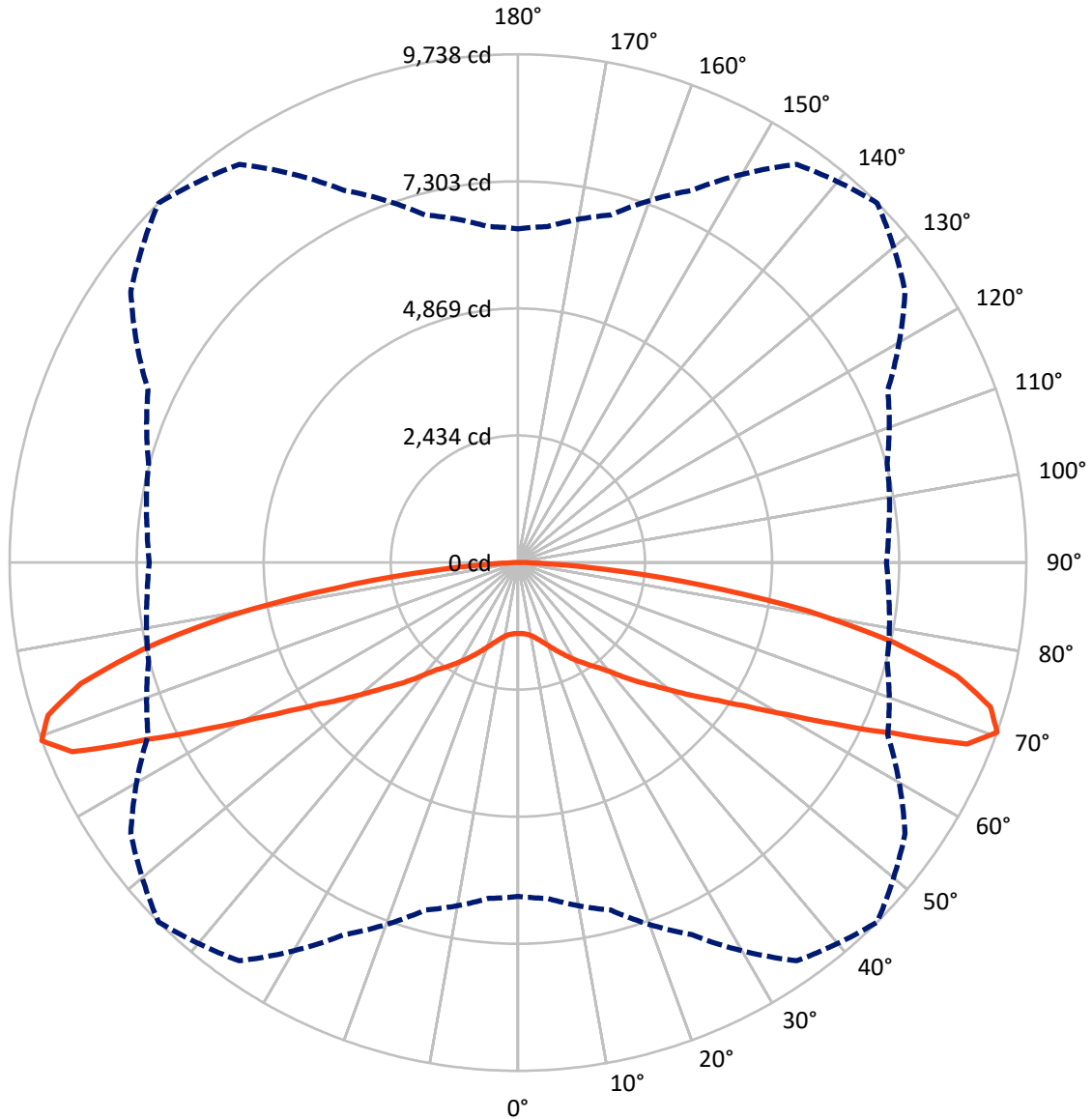
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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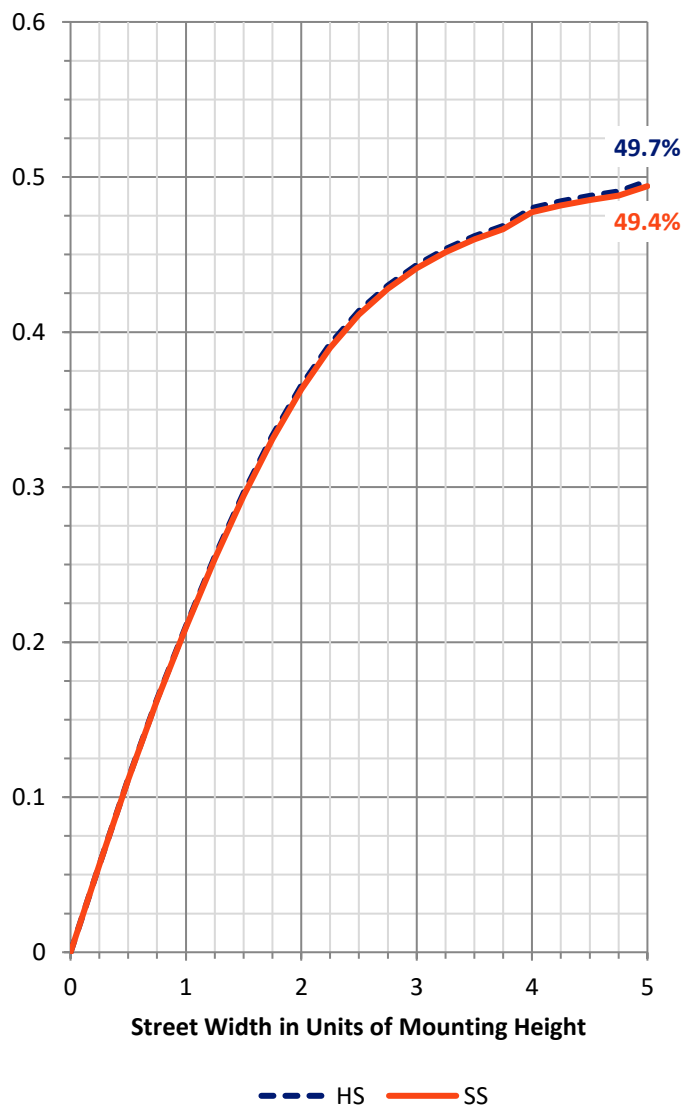
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12810.0	0.0	12810.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12810.0	0.0	12810.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25620.0	0.0	25620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	0.5
10°-20°	441.1	1.7
20°-30°	882.2	3.4
30°-40°	1534.9	6.0
40°-50°	2670.5	10.4
50°-60°	4649.6	18.1
60°-70°	7530.4	29.4
70°-80°	6460.3	25.2
80°-90°	1317.7	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°	25620.0	100.0
0°-180°	25620.0	100.0

**Coefficient of Utilization**



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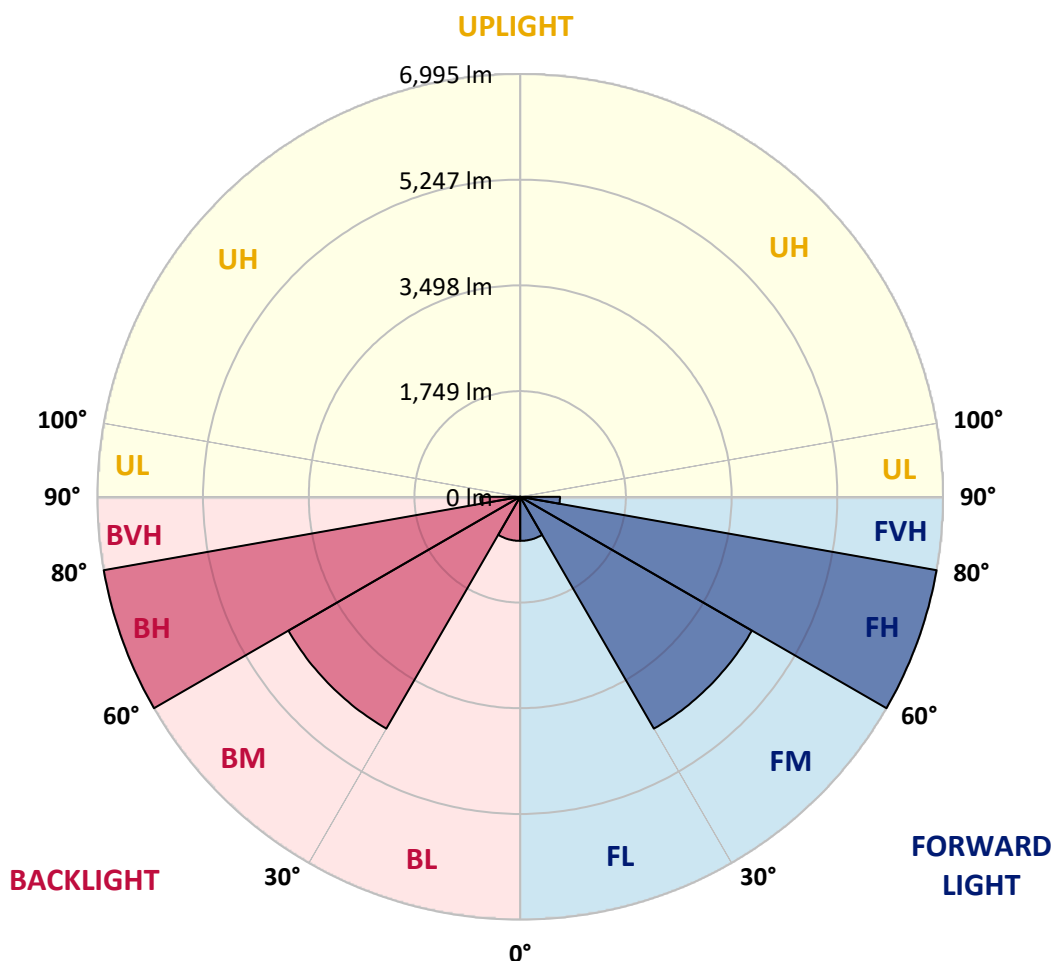
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.3	2.8			
FM	(30°-60°)	4427.5	17.3			
FH	(60°-80°)	6995.3	27.3			G3/7500
FVH	(80°-90°)	658.9	2.6			G4/750
BL	(0°-30°)	728.3	2.8	B2/1000		
BM	(30°-60°)	4427.5	17.3	B3/5000		
BH	(60°-80°)	6995.3	27.3	B5		G3/7500
BVH	(80°-90°)	658.9	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°	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7
2.5°	1358.2	1366.1	1364.9	1362.7	1359.3	1359.3	1361.6	1369.4	1370.6	1370.6	1370.6
5°	1373.9	1381.8	1380.7	1378.4	1375.0	1373.9	1376.2	1384.0	1385.2	1385.2	1386.3
7.5°	1391.9	1400.9	1400.9	1399.8	1391.9	1391.9	1394.2	1404.3	1404.3	1406.5	1408.8
10°	1422.3	1432.4	1435.8	1431.3	1426.8	1424.5	1426.8	1436.9	1435.8	1433.5	1434.6
12.5°	1463.9	1474.0	1481.9	1480.7	1476.2	1474.0	1476.2	1481.9	1475.1	1466.1	1466.1
15°	1515.6	1529.1	1538.1	1538.1	1543.7	1540.3	1537.0	1538.1	1528.0	1520.1	1520.1
17.5°	1581.9	1593.2	1601.0	1607.8	1616.8	1616.8	1608.9	1606.7	1593.2	1586.4	1587.5
20°	1662.9	1671.9	1683.1	1688.7	1706.7	1707.8	1694.4	1688.7	1675.2	1666.2	1668.5
22.5°	1750.6	1766.3	1770.8	1787.7	1809.0	1810.2	1792.2	1779.8	1766.3	1759.6	1760.7
25°	1856.3	1872.0	1868.6	1883.2	1915.8	1919.2	1899.0	1881.0	1869.8	1863.0	1865.3
27.5°	1972.1	1987.8	1986.7	1986.7	2024.9	2039.5	2011.4	1992.3	1994.6	1982.2	1986.7
30°	2095.7	2109.2	2117.1	2103.6	2140.7	2164.3	2119.4	2121.6	2120.5	2112.6	2111.5
32.5°	2240.8	2253.1	2252.0	2243.0	2254.3	2288.0	2252.0	2263.3	2266.6	2267.8	2276.8
35°	2406.1	2420.7	2404.9	2392.6	2393.7	2426.3	2399.3	2417.3	2435.3	2442.0	2442.0
37.5°	2582.6	2590.4	2573.6	2554.5	2550.0	2568.0	2563.5	2592.7	2623.0	2639.9	2648.9
40°	2810.8	2817.6	2785.0	2747.8	2741.1	2761.3	2767.0	2831.0	2877.1	2908.6	2914.2
42.5°	3127.9	3126.7	3080.6	3012.1	2979.5	3010.9	3051.4	3125.6	3203.2	3209.9	3233.6
45°	3536.0	3520.3	3460.7	3358.4	3276.3	3265.0	3313.4	3423.6	3510.1	3547.2	3561.9
47.5°	4001.5	3983.5	3875.5	3717.0	3576.5	3532.6	3573.1	3711.4	3840.7	3894.7	3923.9
50°	4520.9	4499.5	4390.5	4175.7	3941.9	3862.1	3886.8	4058.8	4209.5	4278.1	4329.8
52.5°	5079.7	5076.3	4936.9	4689.6	4377.0	4247.7	4239.8	4446.7	4649.1	4740.2	4768.3
55°	5679.0	5662.1	5537.3	5268.6	4906.6	4664.8	4665.9	4895.3	5142.7	5261.8	5275.3
57.5°	6267.0	6260.2	6121.9	5892.6	5522.7	5204.5	5173.0	5477.7	5727.3	5825.1	5829.6
60°	6822.4	6843.8	6771.8	6561.6	6263.6	5903.8	5857.7	6115.2	6327.7	6412.0	6442.4
62.5°	7440.8	7447.5	7438.5	7283.4	7056.3	6813.4	6699.8	6831.4	7041.6	7111.4	7096.7
65°	7882.6	7926.5	8028.8	8108.6	8060.3	7874.8	7725.2	7732.0	7773.6	7728.6	7725.2
67.5°	7319.4	7414.9	7763.5	8324.5	8985.6	9274.6	8667.4	7989.4	7737.6	7574.6	7573.4
70°	6395.2	6459.2	6894.4	7864.6	9312.8	9737.8	9053.1	7816.3	7322.7	7129.3	7060.8
72.5°	5440.6	5491.2	5970.2	6960.7	8793.3	9464.6	8806.8	7308.1	6658.2	6232.1	6240.0
75°	4531.0	4523.2	4885.2	5902.7	7783.7	8692.2	8154.7	6504.2	5578.9	5191.0	5147.2
77.5°	3141.4	3213.3	3624.8	4664.8	6310.8	7355.3	7276.6	5354.0	4275.8	3862.1	3889.0
80°	1646.0	1691.0	2178.9	3167.2	4617.6	5641.9	5538.4	3786.7	2762.5	2304.9	2218.3
82.5°	685.8	715.1	996.2	1711.2	2822.1	3511.3	3464.0	2308.2	1540.3	1072.6	1070.4
85°	291.2	292.3	422.7	733.1	1424.5	1668.5	1339.1	991.7	539.7	338.4	302.4
87.5°	123.7	128.2	172.0	336.2	450.9	364.3	214.7	132.7	88.8	54.0	41.6
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)