

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: P509970

Luminaire Tested: **VERD-M-CA3-180-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509970
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-CA3-180-722-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21413 lumens
Efficiency: N/A
Efficacy: 116.9 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

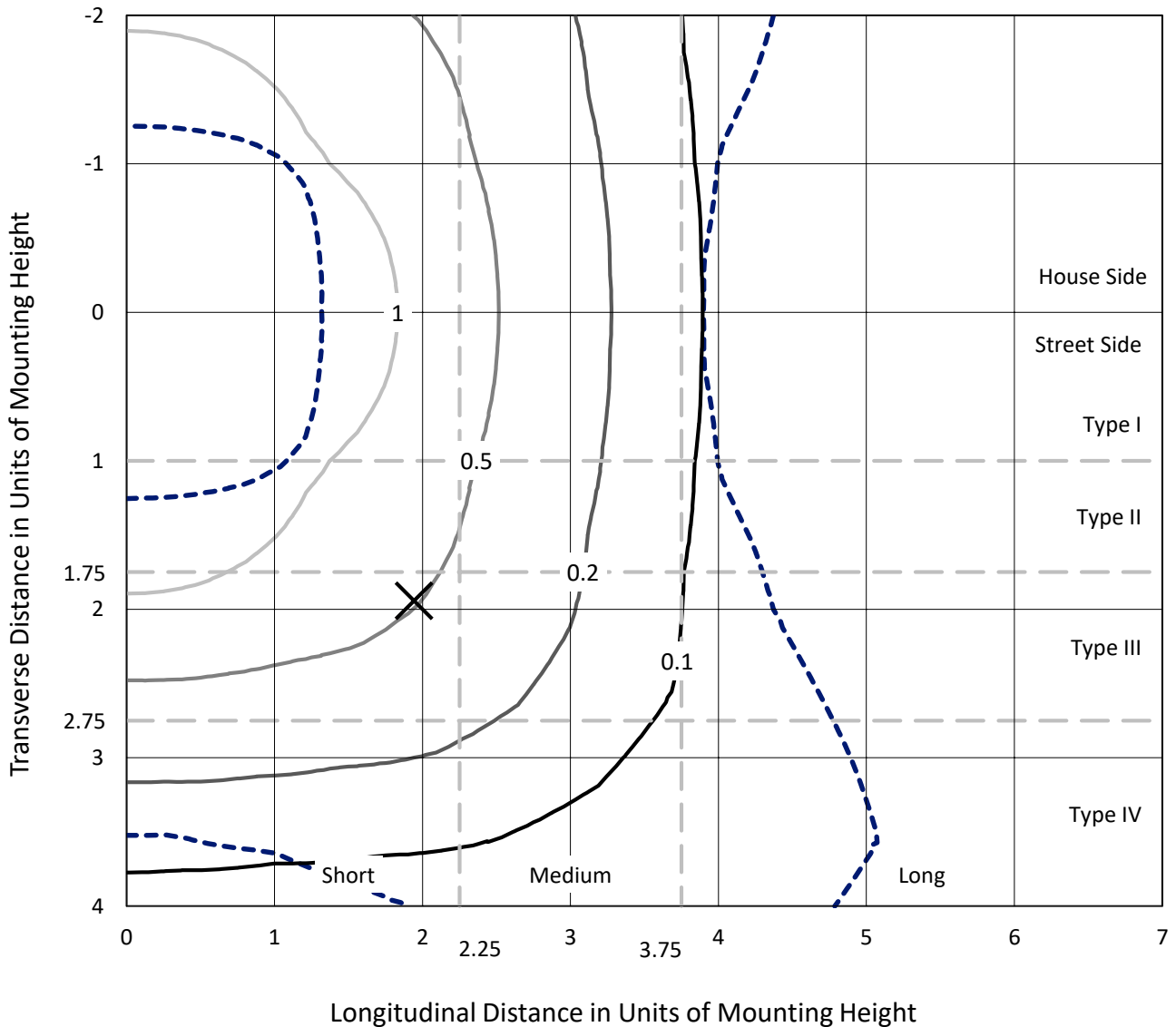
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

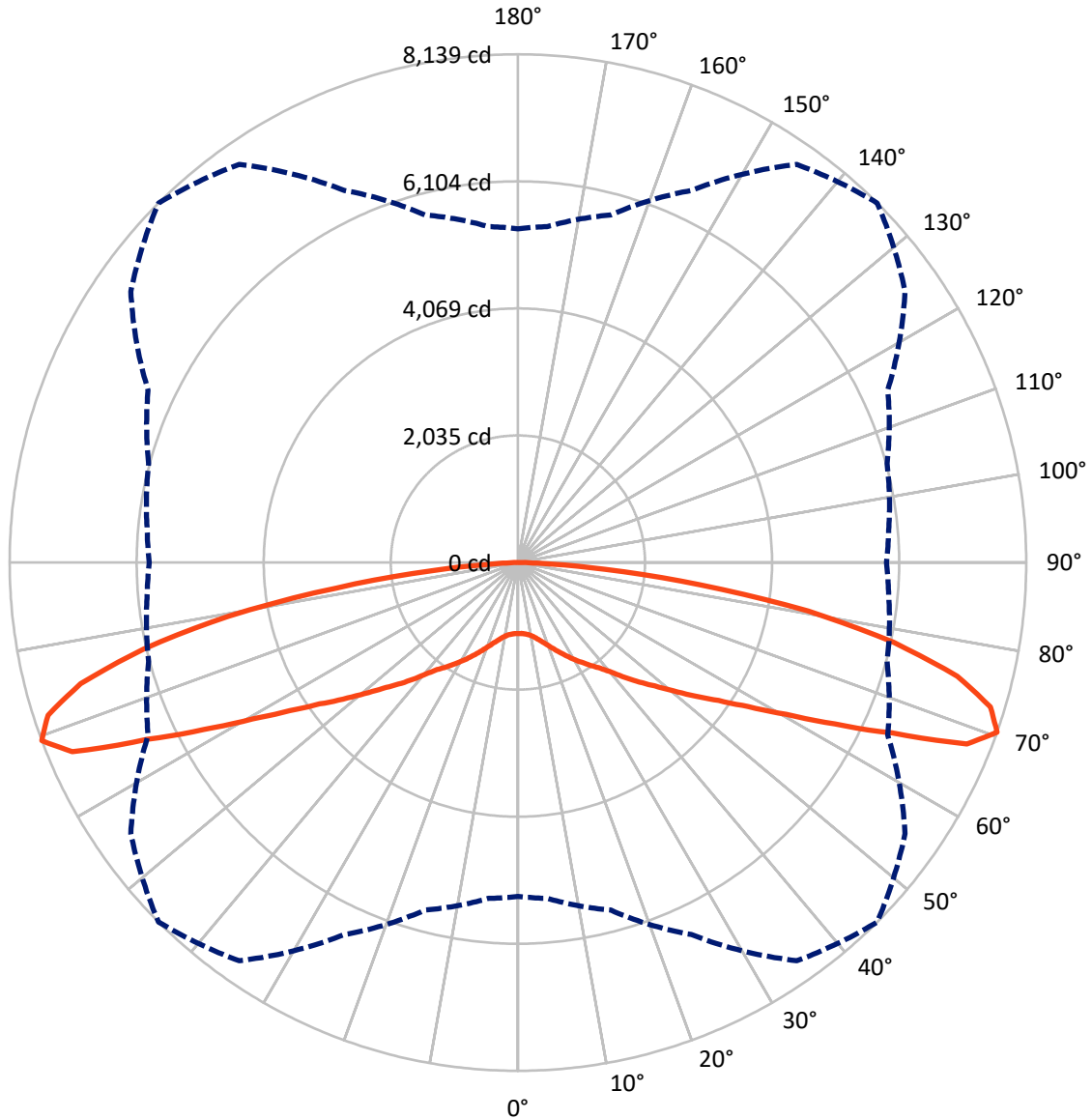
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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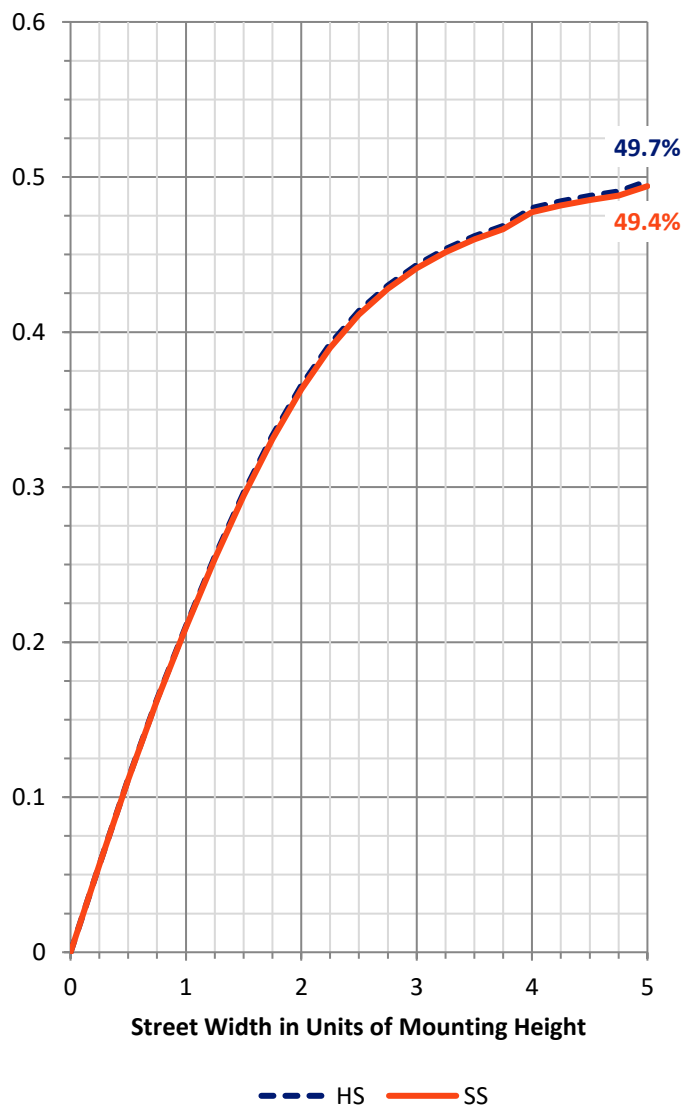
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10706.5	0.0	10706.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10706.5	0.0	10706.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21413.0	0.0	21413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	0.5
10°-20°	368.7	1.7
20°-30°	737.3	3.4
30°-40°	1282.9	6.0
40°-50°	2232.0	10.4
50°-60°	3886.1	18.1
60°-70°	6293.9	29.4
70°-80°	5399.4	25.2
80°-90°	1101.4	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°	21413.0	100.0
0°-180°	21413.0	100.0

Coefficient of Utilization



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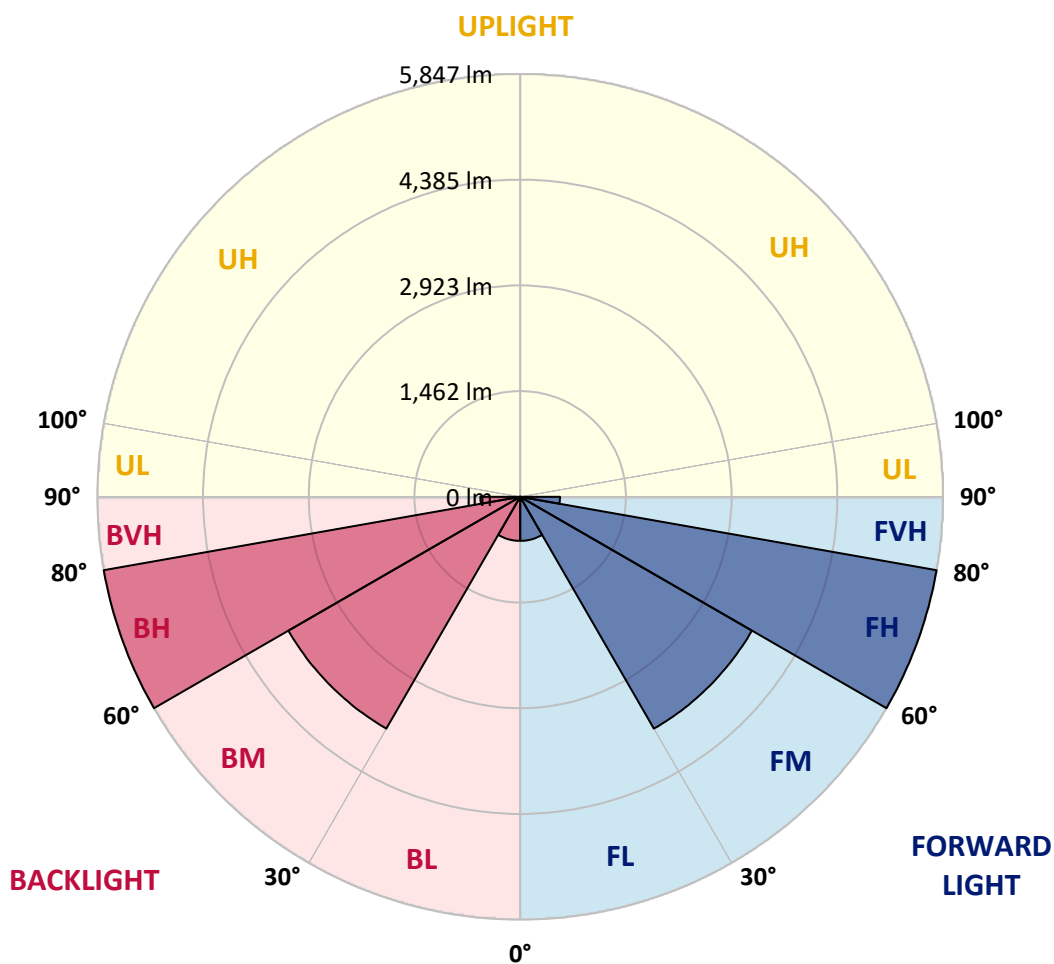
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.7	2.8			
FM	(30°-60°)	3700.5	17.3			
FH	(60°-80°)	5846.7	27.3			G3/7500
FVH	(80°-90°)	550.7	2.6			G4/750
BL	(0°-30°)	608.7	2.8	B2/1000		
BM	(30°-60°)	3700.5	17.3	B3/5000		
BH	(60°-80°)	5846.7	27.3	B5		G3/7500
BVH	(80°-90°)	550.7	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°	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9	1138.9
2.5°	1135.2	1141.7	1140.8	1138.9	1136.1	1136.1	1138.0	1144.6	1145.5	1145.5	1145.5
5°	1148.3	1154.9	1154.0	1152.1	1149.3	1148.3	1150.2	1156.8	1157.7	1157.7	1158.7
7.5°	1163.4	1170.9	1170.9	1169.9	1163.4	1163.4	1165.2	1173.7	1173.7	1175.6	1177.4
10°	1188.7	1197.2	1200.0	1196.2	1192.5	1190.6	1192.5	1200.9	1200.0	1198.1	1199.1
12.5°	1223.5	1231.9	1238.5	1237.6	1233.8	1231.9	1233.8	1238.5	1232.9	1225.4	1225.4
15°	1266.7	1278.0	1285.5	1285.5	1290.2	1287.4	1284.6	1285.5	1277.1	1270.5	1270.5
17.5°	1322.2	1331.6	1338.1	1343.8	1351.3	1351.3	1344.7	1342.8	1331.6	1325.9	1326.9
20°	1389.8	1397.3	1406.7	1411.4	1426.5	1427.4	1416.1	1411.4	1400.2	1392.6	1394.5
22.5°	1463.1	1476.3	1480.0	1494.1	1512.0	1512.9	1497.9	1487.5	1476.3	1470.6	1471.6
25°	1551.4	1564.6	1561.8	1574.0	1601.3	1604.1	1587.2	1572.1	1562.7	1557.1	1559.0
27.5°	1648.2	1661.4	1660.5	1660.5	1692.4	1704.6	1681.1	1665.2	1667.0	1656.7	1660.5
30°	1751.6	1762.9	1769.5	1758.2	1789.2	1808.9	1771.3	1773.2	1772.3	1765.7	1764.8
32.5°	1872.8	1883.2	1882.2	1874.7	1884.1	1912.3	1882.2	1891.6	1894.4	1895.4	1902.9
35°	2011.0	2023.2	2010.0	1999.7	2000.6	2027.9	2005.3	2020.4	2035.4	2041.0	2041.0
37.5°	2158.5	2165.1	2151.0	2135.0	2131.2	2146.3	2142.5	2167.0	2192.3	2206.4	2213.9
40°	2349.3	2354.9	2327.6	2296.6	2291.0	2307.9	2312.6	2366.2	2404.7	2431.0	2435.7
42.5°	2614.2	2613.3	2574.8	2517.5	2490.2	2516.5	2550.4	2612.4	2677.2	2682.8	2702.6
45°	2955.4	2942.2	2892.4	2806.9	2738.3	2728.9	2769.3	2861.4	2933.7	2964.8	2977.0
47.5°	3344.4	3329.4	3239.2	3106.7	2989.2	2952.5	2986.4	3102.0	3210.0	3255.1	3279.6
50°	3778.5	3760.7	3669.5	3490.1	3294.6	3227.9	3248.5	3392.3	3518.2	3575.6	3618.8
52.5°	4245.6	4242.8	4126.2	3919.5	3658.3	3550.2	3543.6	3716.5	3885.7	3961.8	3985.3
55°	4746.4	4732.3	4628.0	4403.4	4100.9	3898.8	3899.8	4091.5	4298.2	4397.8	4409.1
57.5°	5237.9	5232.3	5116.7	4925.0	4615.8	4349.9	4323.6	4578.2	4786.8	4868.6	4872.4
60°	5702.1	5720.0	5659.8	5484.1	5235.1	4934.4	4895.8	5111.0	5288.6	5359.1	5384.5
62.5°	6218.9	6224.6	6217.1	6087.4	5897.6	5694.6	5599.7	5709.6	5885.4	5943.6	5931.4
65°	6588.2	6624.9	6710.4	6777.1	6736.7	6581.7	6456.7	6462.3	6497.1	6459.5	6456.7
67.5°	6117.5	6197.3	6488.6	6957.6	7510.1	7751.6	7244.2	6677.5	6467.0	6330.8	6329.8
70°	5345.0	5398.6	5762.3	6573.2	7783.5	8138.8	7566.5	6532.8	6120.3	5958.6	5901.3
72.5°	4547.2	4589.5	4989.8	5817.7	7349.4	7910.4	7360.7	6108.1	5564.9	5208.8	5215.3
75°	3787.0	3780.4	4083.0	4933.4	6505.6	7264.8	6815.7	5436.2	4662.8	4338.6	4302.0
77.5°	2625.5	2685.7	3029.6	3898.8	5274.5	6147.5	6081.7	4474.9	3573.7	3227.9	3250.4
80°	1375.7	1413.3	1821.1	2647.1	3859.4	4715.4	4629.0	3164.9	2308.8	1926.4	1854.0
82.5°	573.2	597.7	832.6	1430.2	2358.7	2934.7	2895.2	1929.2	1287.4	896.5	894.6
85°	243.4	244.3	353.3	612.7	1190.6	1394.5	1119.2	828.8	451.1	282.9	252.8
87.5°	103.4	107.1	143.8	281.0	376.8	304.5	179.5	110.9	74.2	45.1	34.8
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)