

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: P157616

Luminaire Tested: **VST-F09-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157616
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F09-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24071.7 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

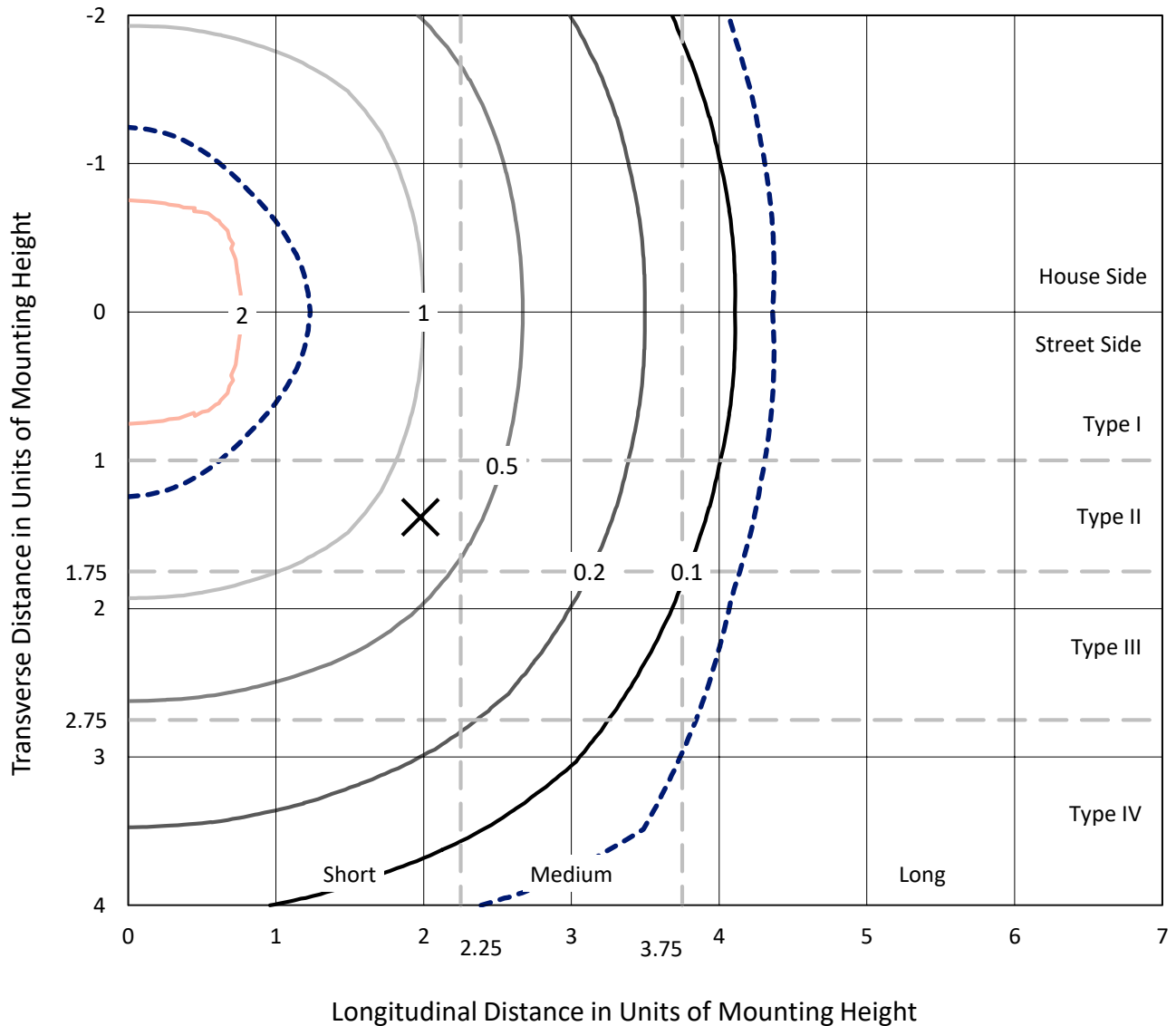
Input Watts (W): 234.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

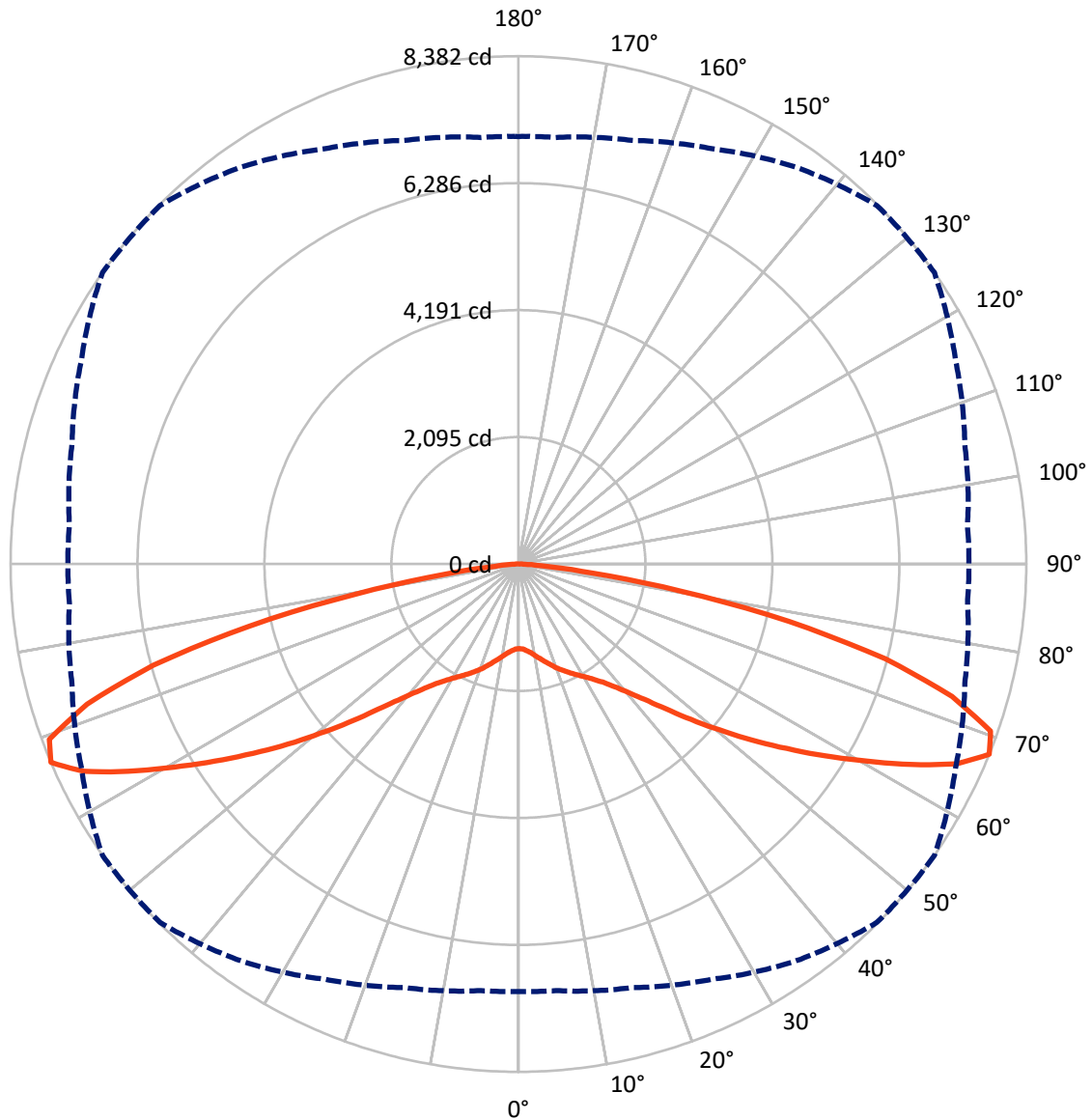
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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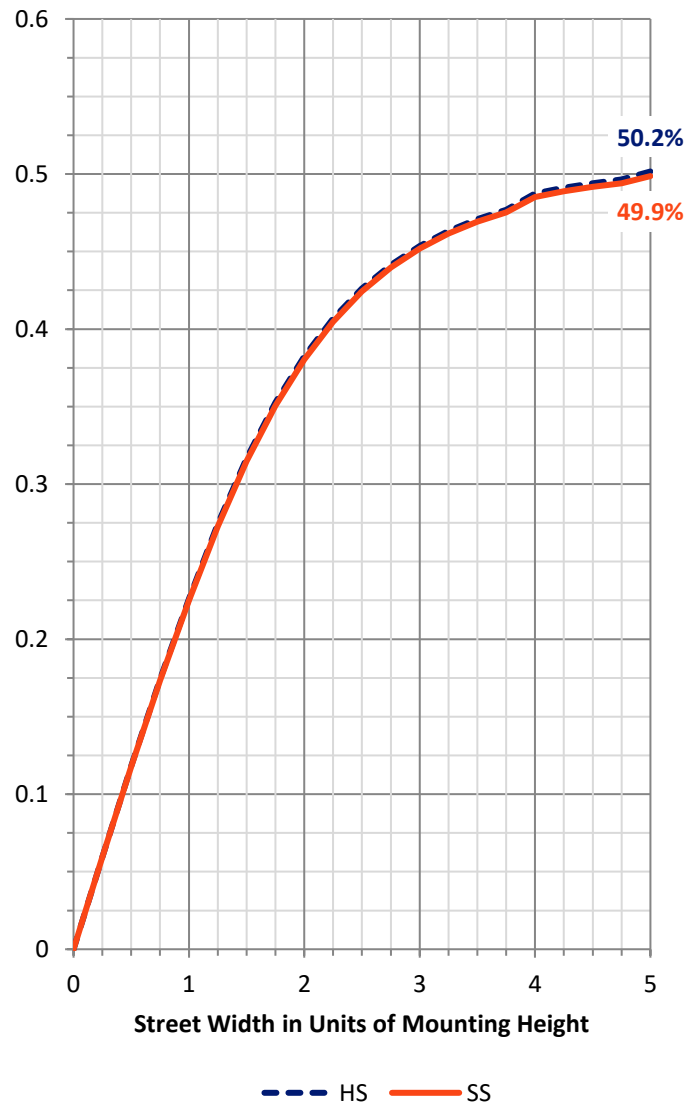
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12035.8	0.0	12035.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12035.8	0.0	12035.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	24071.7	0.0	24071.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	0.6
10°-20°	478.9	2.0
20°-30°	920.9	3.8
30°-40°	1508.6	6.3
40°-50°	2622.6	10.9
50°-60°	4681.2	19.4
60°-70°	7227.6	30.0
70°-80°	5850.7	24.3
80°-90°	640.9	2.7
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°	24071.7	100.0
0°-180°	24071.7	100.0



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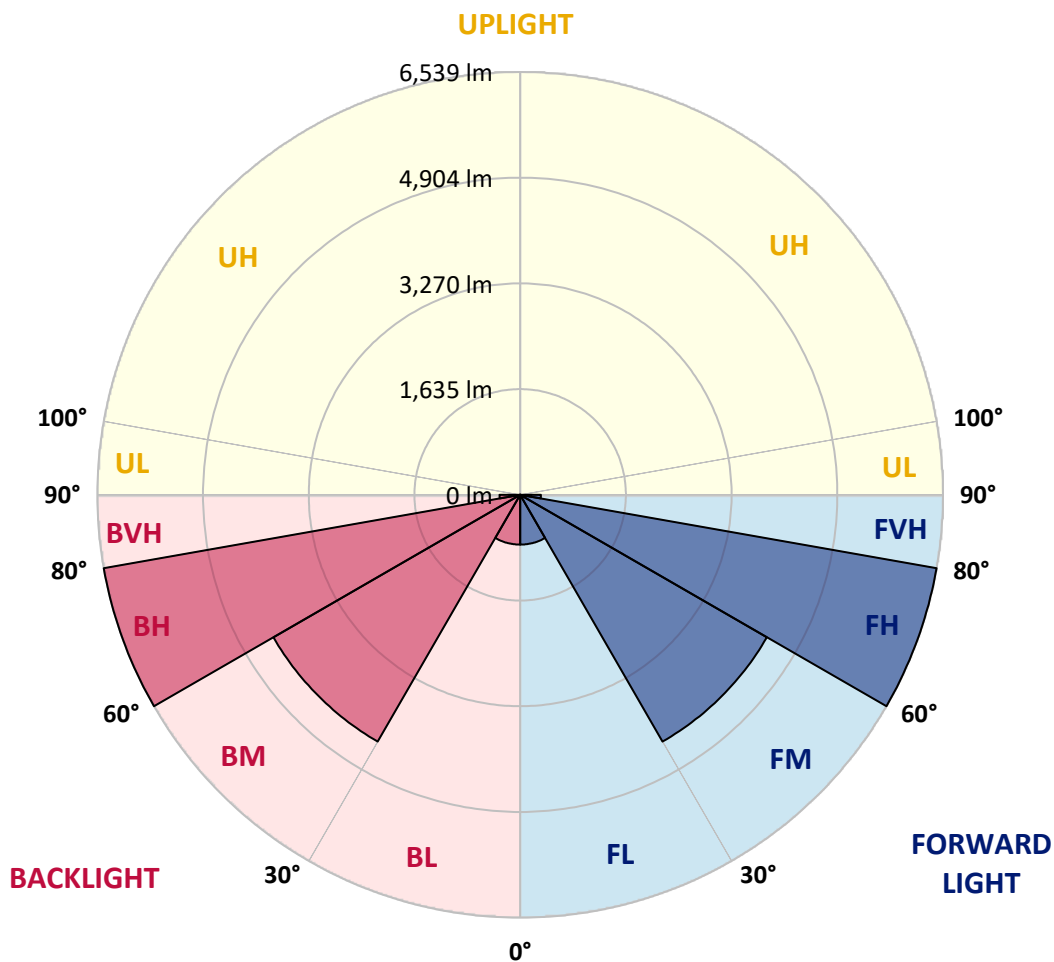
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.0	3.2			
FM	(30°-60°)	4406.2	18.3			
FH	(60°-80°)	6539.1	27.2			G3/7500
FVH	(80°-90°)	320.4	1.3			G3/500
BL	(0°-30°)	770.0	3.2	B2/1000		
BM	(30°-60°)	4406.2	18.3	B3/5000		
BH	(60°-80°)	6539.1	27.2	B5		G3/7500
BVH	(80°-90°)	320.4	1.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7
2.5°	1405.8	1407.3	1405.8	1405.8	1404.3	1404.3	1404.3	1405.8	1405.8	1408.9	1407.3
5°	1434.8	1436.3	1433.3	1436.3	1436.3	1437.8	1436.3	1434.8	1436.3	1437.8	1433.3
7.5°	1475.9	1479.0	1477.5	1479.0	1480.5	1479.0	1479.0	1477.5	1480.5	1479.0	1475.9
10°	1529.3	1532.4	1530.8	1533.9	1535.4	1536.9	1536.9	1533.9	1532.4	1532.4	1530.8
12.5°	1593.3	1593.3	1593.3	1597.9	1601.0	1604.0	1602.5	1599.4	1594.9	1596.4	1590.3
15°	1663.5	1666.5	1666.5	1668.1	1675.7	1677.2	1675.7	1671.1	1669.6	1666.5	1663.5
17.5°	1741.2	1742.8	1744.3	1745.8	1755.0	1759.5	1753.4	1745.8	1745.8	1744.3	1744.3
20°	1822.1	1820.5	1823.6	1826.6	1832.7	1837.3	1835.8	1828.2	1822.1	1826.6	1825.1
22.5°	1896.8	1898.3	1899.8	1904.4	1915.1	1916.6	1912.0	1905.9	1898.3	1899.8	1899.8
25°	1966.9	1968.4	1971.5	1977.6	1989.8	1997.4	1991.3	1982.2	1971.5	1971.5	1973.0
27.5°	2038.6	2040.1	2041.6	2052.3	2067.5	2076.7	2072.1	2056.9	2044.7	2041.6	2037.0
30°	2117.9	2117.9	2120.9	2134.6	2154.5	2165.1	2159.0	2140.7	2122.4	2119.4	2119.4
32.5°	2218.5	2212.4	2217.0	2235.3	2256.6	2268.8	2264.2	2242.9	2220.0	2215.4	2215.4
35°	2338.9	2335.9	2338.9	2360.3	2386.2	2404.5	2393.8	2374.0	2349.6	2345.0	2342.0
37.5°	2482.3	2483.8	2492.9	2517.3	2552.4	2575.3	2564.6	2532.6	2503.6	2503.6	2503.6
40°	2663.7	2666.8	2685.1	2721.7	2772.0	2791.8	2779.6	2740.0	2706.4	2694.2	2697.3
42.5°	2910.7	2909.2	2938.2	2983.9	3043.4	3072.3	3052.5	3009.8	2961.0	2941.2	2942.7
45°	3201.9	3223.3	3253.8	3311.7	3386.4	3436.8	3401.7	3354.4	3281.2	3252.3	3250.7
47.5°	3554.2	3577.0	3615.1	3711.2	3801.2	3862.2	3834.7	3756.9	3651.7	3610.6	3595.3
50°	3955.2	3984.1	4032.9	4156.4	4284.5	4353.1	4304.3	4202.2	4089.3	4026.8	4011.6
52.5°	4406.5	4415.6	4488.8	4638.2	4796.8	4880.7	4825.8	4703.8	4559.0	4501.0	4458.3
55°	4906.6	4914.2	4998.1	5167.3	5347.2	5446.4	5376.2	5222.2	5088.0	4987.4	4996.6
57.5°	5370.1	5393.0	5516.5	5714.7	5926.6	6047.1	5970.9	5807.7	5667.4	5553.1	5566.8
60°	5865.7	5890.1	6019.7	6256.0	6542.6	6702.7	6603.6	6428.3	6283.4	6175.2	6161.5
62.5°	6391.7	6405.4	6547.2	6759.2	7125.1	7382.8	7288.2	7094.6	6925.4	6818.6	6807.9
65°	6878.1	6896.4	7016.8	7248.6	7625.2	8001.8	7948.4	7680.1	7451.4	7297.4	7276.0
67.5°	7055.0	7067.2	7236.4	7561.2	7994.2	8366.2	8381.5	7959.1	7626.7	7439.2	7434.6
70°	6847.6	6856.7	7073.3	7459.0	8011.0	8320.5	8265.6	7841.7	7433.1	7202.9	7180.0
72.5°	6382.5	6384.1	6582.3	6910.1	7463.6	7716.7	7483.4	7250.1	6827.8	6655.5	6609.7
75°	5536.3	5537.8	5675.1	5893.1	6288.0	6521.3	6256.0	6042.5	5794.0	5691.8	5638.5
77.5°	3807.3	3830.1	3971.9	4223.5	4656.5	4914.2	4566.6	4179.3	4028.4	3941.4	3889.6
80°	1832.7	1867.8	2030.9	2279.5	2732.3	3144.0	2715.6	2238.3	1944.0	1704.7	1747.3
82.5°	489.4	495.5	635.8	913.3	1273.2	1494.2	1213.7	849.3	535.2	359.8	329.3
85°	129.6	137.2	192.1	263.8	401.0	510.8	390.3	248.5	189.1	140.3	128.1
87.5°	35.1	41.2	67.1	80.8	100.6	80.8	100.6	86.9	83.9	44.2	32.0
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)