

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: P157548

Luminaire Tested: **VST-E03-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157548
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-E03-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7994.7 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

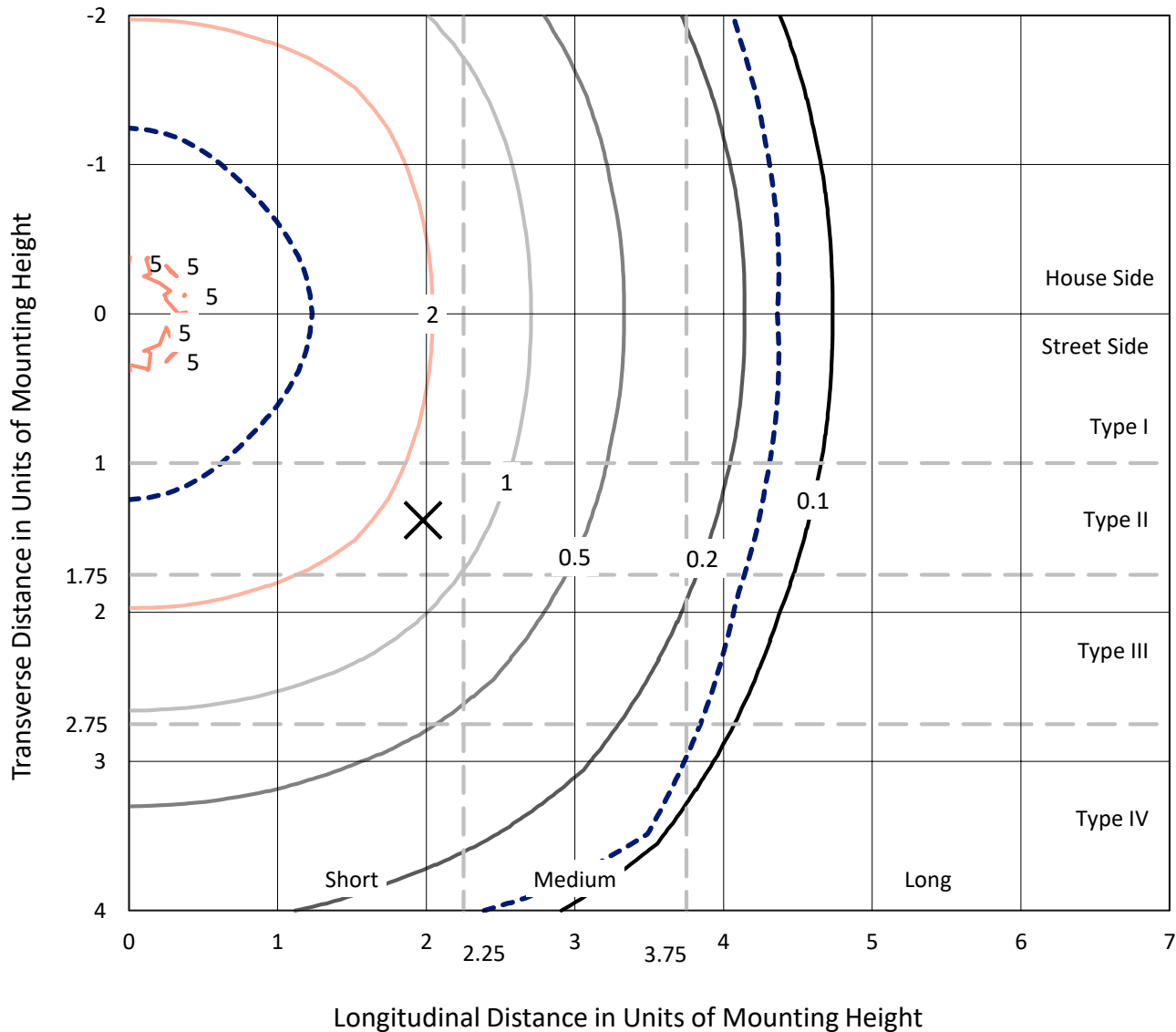
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

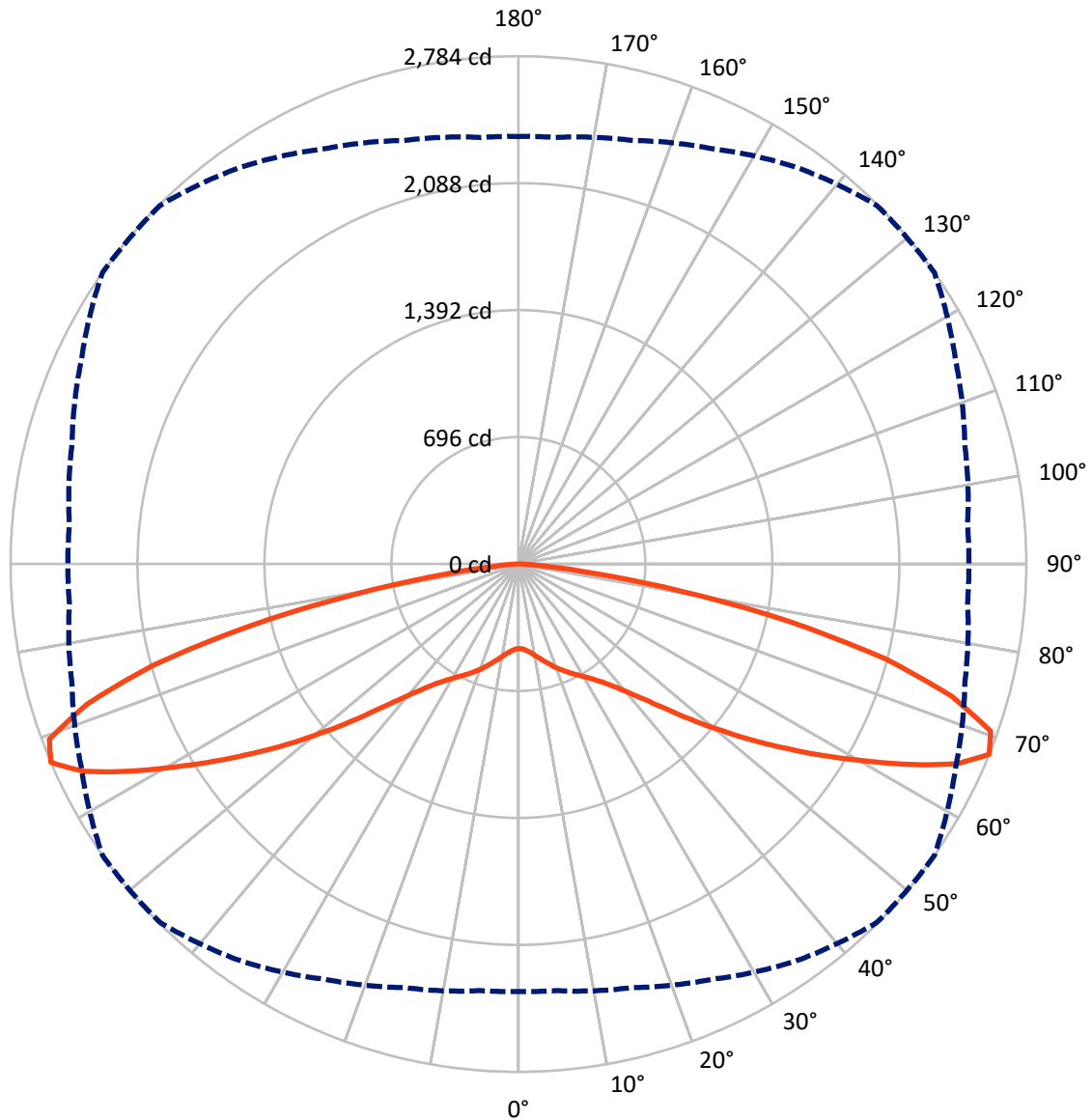
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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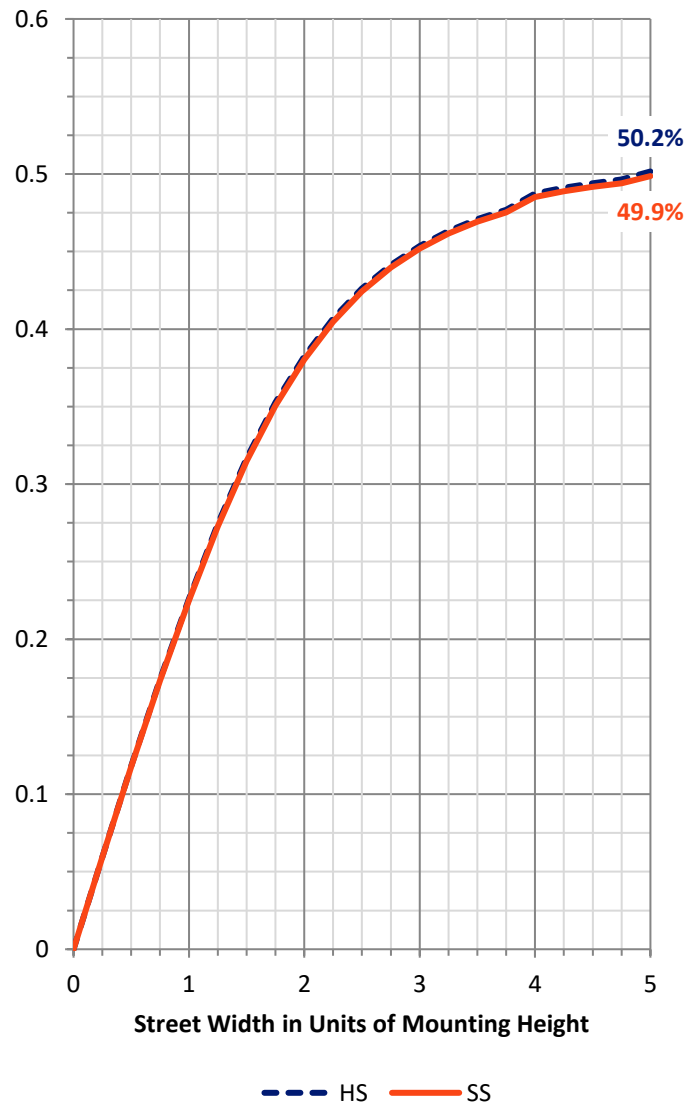
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.4	0.0	3997.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3997.4	0.0	3997.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7994.7	0.0	7994.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.6
10°-20°	159.1	2.0
20°-30°	305.9	3.8
30°-40°	501.0	6.3
40°-50°	871.0	10.9
50°-60°	1554.7	19.4
60°-70°	2400.4	30.0
70°-80°	1943.1	24.3
80°-90°	212.9	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°	7994.7	100.0
0°-180°	7994.7	100.0



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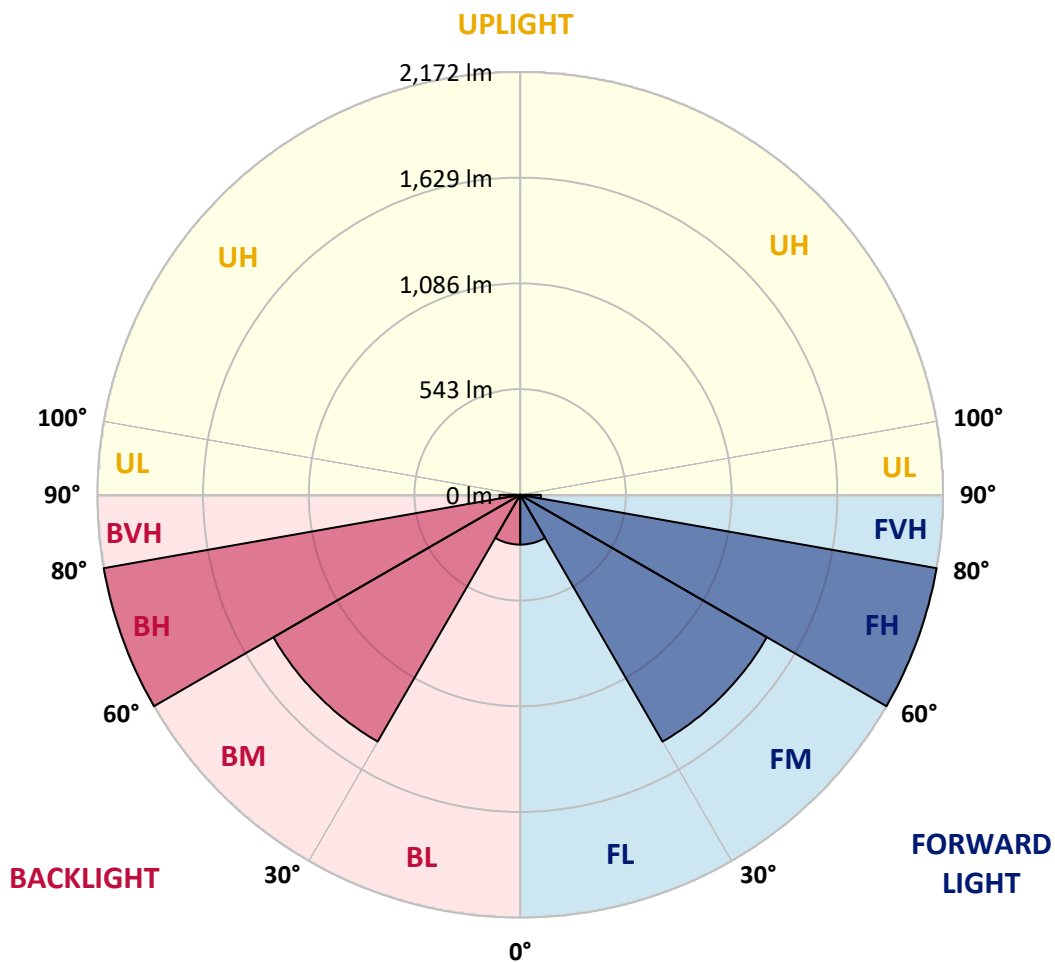
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.7	3.2			
FM	(30°-60°)	1463.4	18.3			
FH	(60°-80°)	2171.8	27.2			G2/5000
FVH	(80°-90°)	106.4	1.3			G2/225
BL	(0°-30°)	255.7	3.2	B1/500		
BM	(30°-60°)	1463.4	18.3	B2/2500		
BH	(60°-80°)	2171.8	27.2	B3/2500		G2/5000
BVH	(80°-90°)	106.4	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	466.9	467.4	466.9	466.9	466.4	466.4	466.4	466.9	466.9	467.9	467.4
5°	476.5	477.0	476.0	477.0	477.0	477.5	477.0	476.5	477.0	477.5	476.0
7.5°	490.2	491.2	490.7	491.2	491.7	491.2	491.2	490.7	491.7	491.2	490.2
10°	507.9	508.9	508.4	509.5	509.9	510.4	510.4	509.5	508.9	508.9	508.4
12.5°	529.2	529.2	529.2	530.7	531.7	532.7	532.2	531.2	529.7	530.2	528.2
15°	552.5	553.5	553.5	554.0	556.5	557.0	556.5	555.0	554.5	553.5	552.5
17.5°	578.3	578.8	579.3	579.8	582.8	584.4	582.4	579.8	579.8	579.3	579.3
20°	605.2	604.6	605.6	606.7	608.7	610.2	609.7	607.1	605.2	606.7	606.2
22.5°	629.9	630.5	631.0	632.5	636.1	636.5	635.0	633.0	630.5	631.0	631.0
25°	653.2	653.8	654.8	656.8	660.8	663.4	661.4	658.3	654.8	654.8	655.3
27.5°	677.0	677.6	678.1	681.6	686.7	689.7	688.2	683.1	679.1	678.1	676.6
30°	703.4	703.4	704.4	709.0	715.6	719.1	717.1	711.0	704.9	703.9	703.9
32.5°	736.8	734.8	736.3	742.4	749.5	753.5	752.0	744.9	737.3	735.8	735.8
35°	776.8	775.8	776.8	783.9	792.5	798.6	795.1	788.5	780.4	778.9	777.8
37.5°	824.4	824.9	827.9	836.0	847.7	855.3	851.8	841.1	831.5	831.5	831.5
40°	884.7	885.7	891.8	903.9	920.6	927.2	923.2	910.0	898.9	894.8	895.8
42.5°	966.7	966.2	975.8	991.0	1010.8	1020.4	1013.8	999.6	983.4	976.9	977.3
45°	1063.4	1070.5	1080.7	1099.9	1124.7	1141.4	1129.7	1114.1	1089.8	1080.1	1079.6
47.5°	1180.4	1188.0	1200.7	1232.6	1262.5	1282.7	1273.6	1247.8	1212.8	1199.2	1194.1
50°	1313.6	1323.2	1339.4	1380.4	1423.0	1445.8	1429.6	1395.6	1358.2	1337.4	1332.3
52.5°	1463.5	1466.5	1490.8	1540.4	1593.1	1621.0	1602.7	1562.2	1514.1	1494.9	1480.7
55°	1629.6	1632.1	1660.0	1716.2	1775.9	1808.8	1785.5	1734.4	1689.8	1656.4	1659.5
57.5°	1783.5	1791.1	1832.2	1898.0	1968.4	2008.4	1983.1	1928.9	1882.3	1844.3	1848.8
60°	1948.1	1956.2	1999.3	2077.7	2173.0	2226.1	2193.2	2135.0	2086.9	2050.9	2046.4
62.5°	2122.8	2127.4	2174.5	2244.8	2366.4	2452.0	2420.6	2356.3	2300.0	2264.6	2261.0
65°	2284.3	2290.4	2330.4	2407.4	2532.5	2657.6	2639.8	2550.7	2474.8	2423.6	2416.5
67.5°	2343.1	2347.1	2403.4	2511.2	2655.0	2778.6	2783.6	2643.4	2533.0	2470.7	2469.2
70°	2274.2	2277.2	2349.2	2477.3	2660.6	2763.4	2745.2	2604.4	2468.7	2392.2	2384.6
72.5°	2119.7	2120.3	2186.1	2295.0	2478.8	2562.8	2485.4	2407.9	2267.6	2210.4	2195.2
75°	1838.7	1839.2	1884.8	1957.2	2088.4	2165.8	2077.7	2006.8	1924.3	1890.4	1872.7
77.5°	1264.4	1272.1	1319.2	1402.7	1546.5	1632.1	1516.7	1388.0	1337.9	1309.0	1291.8
80°	608.7	620.3	674.5	757.1	907.4	1044.2	901.9	743.4	645.7	566.2	580.3
82.5°	162.5	164.6	211.1	303.4	422.8	496.3	403.1	282.1	177.7	119.5	109.4
85°	43.0	45.6	63.8	87.6	133.2	169.6	129.7	82.6	62.8	46.6	42.5
87.5°	11.6	13.7	22.3	26.8	33.4	26.8	33.4	28.9	27.8	14.7	10.6
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)