

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: P157600

Luminaire Tested: **VST-E08-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157600
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-E08-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25259.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 194.5
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

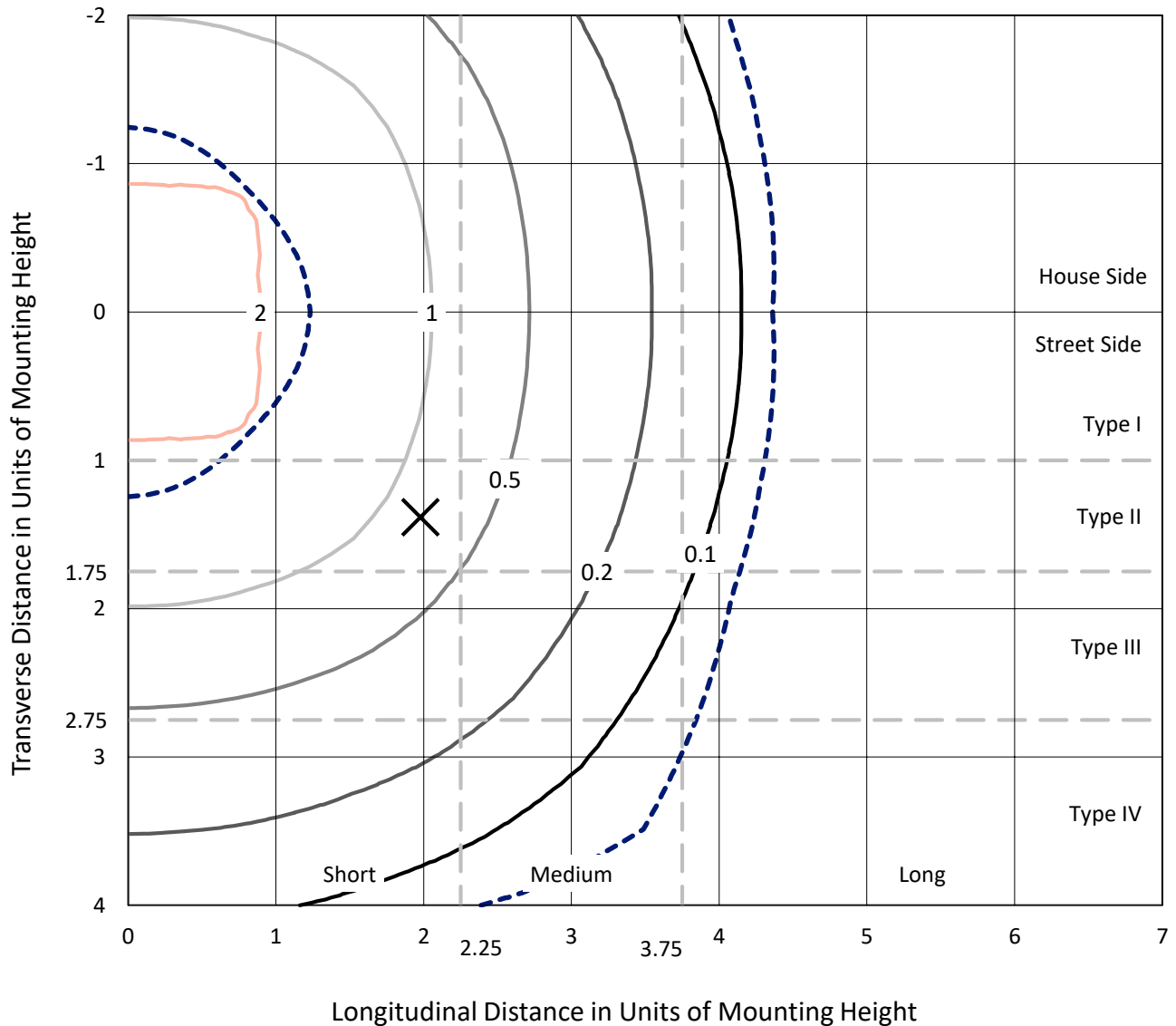


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

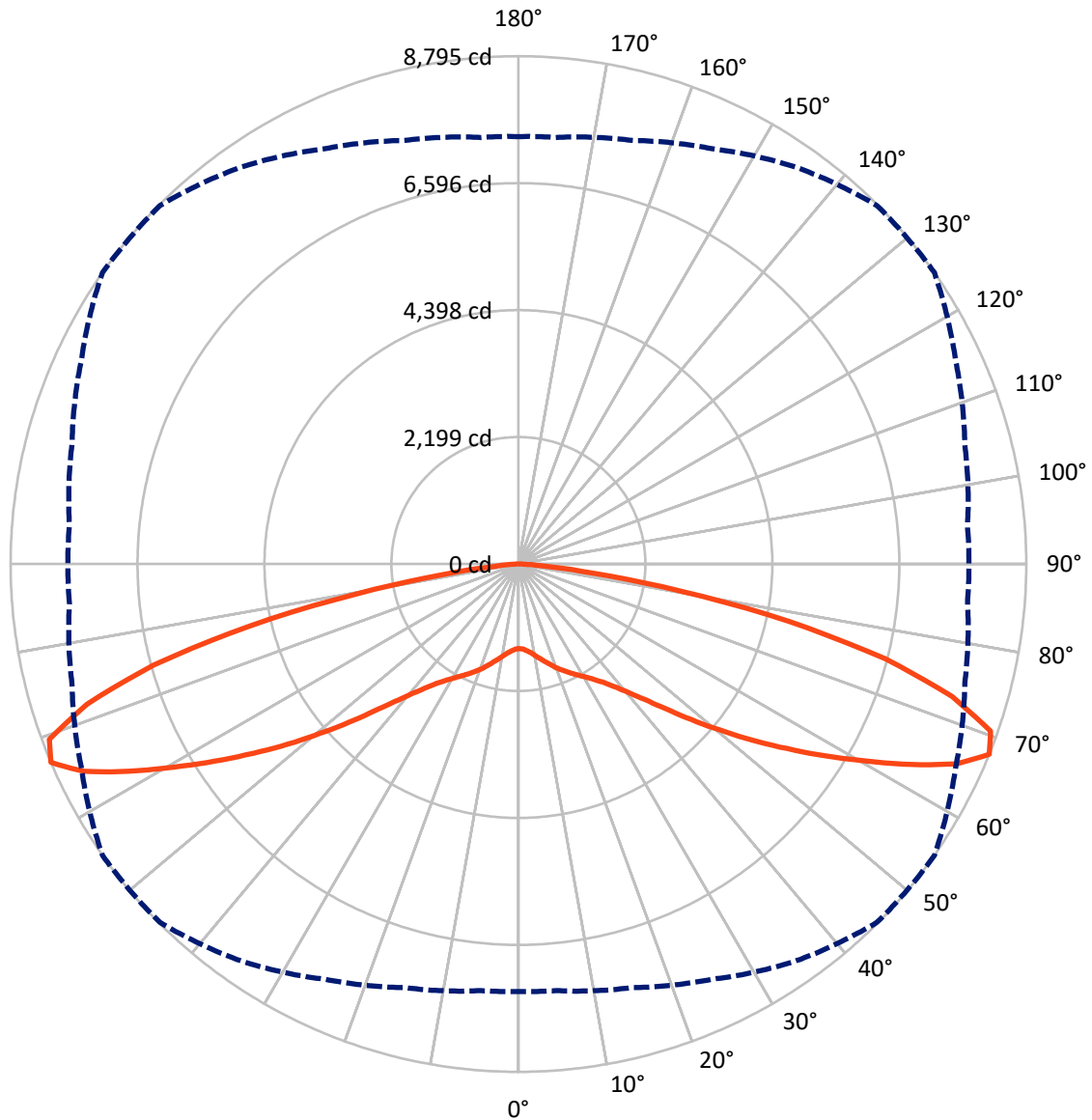


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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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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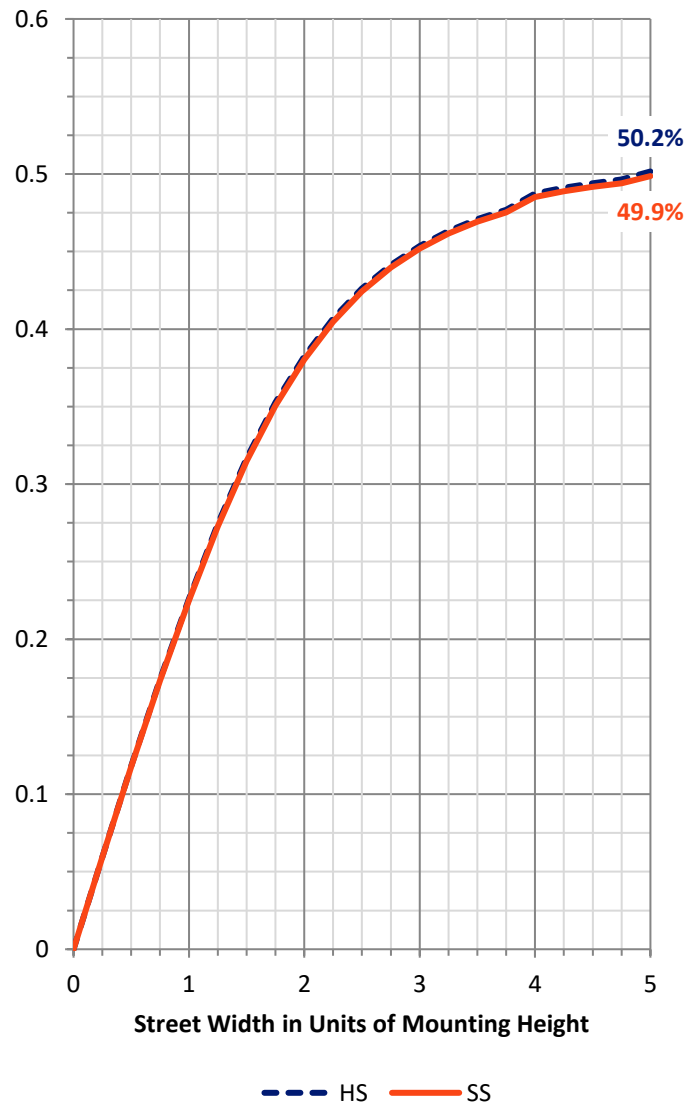
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12630.0	0.0	12630.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12630.0	0.0	12630.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25259.9	0.0	25259.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	0.6
10°-20°	502.6	2.0
20°-30°	966.4	3.8
30°-40°	1583.1	6.3
40°-50°	2752.1	10.9
50°-60°	4912.3	19.4
60°-70°	7584.3	30.0
70°-80°	6139.5	24.3
80°-90°	672.5	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°	25259.9	100.0
0°-180°	25259.9	100.0



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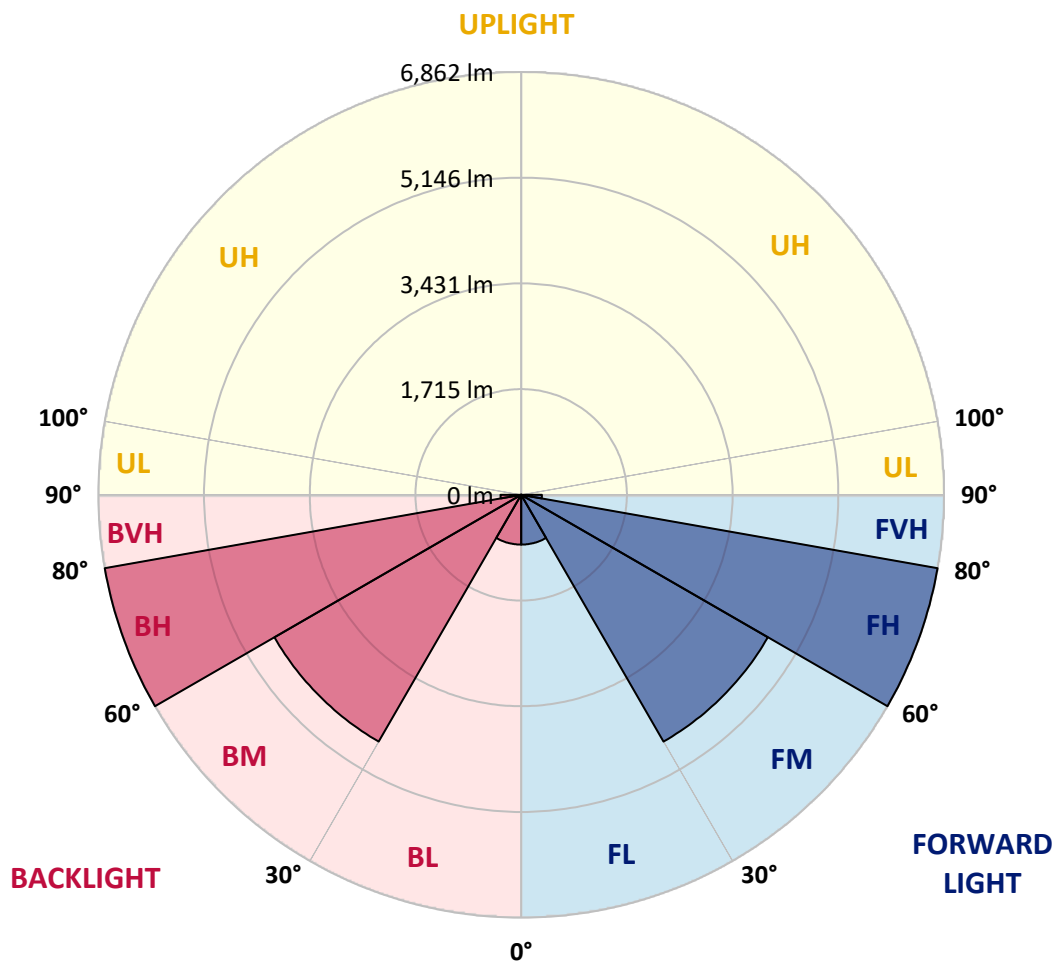
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.0	3.2			
FM (30°-60°)	4623.8	18.3			
FH (60°-80°)	6861.9	27.2			G3/7500
FVH (80°-90°)	336.3	1.3			G3/500
BL (0°-30°)	808.0	3.2	B2/1000		
BM (30°-60°)	4623.8	18.3	B3/5000		
BH (60°-80°)	6861.9	27.2	B5		G3/7500
BVH (80°-90°)	336.3	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°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1475.2	1476.8	1475.2	1475.2	1473.6	1473.6	1473.6	1475.2	1475.2	1478.4	1476.8
5°	1505.6	1507.2	1504.0	1507.2	1507.2	1508.8	1507.2	1505.6	1507.2	1508.8	1504.0
7.5°	1548.8	1552.0	1550.4	1552.0	1553.6	1552.0	1552.0	1550.4	1553.6	1552.0	1548.8
10°	1604.8	1608.0	1606.4	1609.6	1611.2	1612.8	1612.8	1609.6	1608.0	1608.0	1606.4
12.5°	1672.0	1672.0	1672.0	1676.8	1680.0	1683.2	1681.6	1678.4	1673.6	1675.2	1668.8
15°	1745.6	1748.8	1748.8	1750.4	1758.4	1760.0	1758.4	1753.6	1752.0	1748.8	1745.6
17.5°	1827.2	1828.8	1830.4	1832.0	1841.6	1846.4	1840.0	1832.0	1832.0	1830.4	1830.4
20°	1912.0	1910.4	1913.6	1916.8	1923.2	1928.0	1926.4	1918.4	1912.0	1916.8	1915.2
22.5°	1990.4	1992.0	1993.6	1998.4	2009.6	2011.2	2006.4	2000.0	1992.0	1993.6	1993.6
25°	2064.0	2065.6	2068.8	2075.2	2088.0	2096.0	2089.6	2080.0	2068.8	2068.8	2070.4
27.5°	2139.2	2140.8	2142.4	2153.6	2169.6	2179.2	2174.4	2158.4	2145.6	2142.4	2137.6
30°	2222.4	2222.4	2225.6	2240.0	2260.8	2272.0	2265.6	2246.4	2227.2	2224.0	2224.0
32.5°	2328.0	2321.6	2326.4	2345.6	2368.0	2380.8	2376.0	2353.6	2329.6	2324.8	2324.8
35°	2454.4	2451.2	2454.4	2476.8	2504.0	2523.2	2512.0	2491.2	2465.6	2460.8	2457.6
37.5°	2604.8	2606.4	2616.0	2641.6	2678.4	2702.4	2691.2	2657.6	2627.2	2627.2	2627.2
40°	2795.2	2798.4	2817.6	2856.0	2908.8	2929.6	2916.8	2875.2	2840.0	2827.2	2830.4
42.5°	3054.4	3052.8	3083.2	3131.2	3193.6	3224.0	3203.2	3158.4	3107.2	3086.4	3088.0
45°	3360.0	3382.4	3414.4	3475.2	3553.6	3606.4	3569.6	3520.0	3443.2	3412.8	3411.2
47.5°	3729.6	3753.6	3793.6	3894.4	3988.8	4052.8	4024.0	3942.4	3832.0	3788.8	3772.8
50°	4150.4	4180.8	4232.0	4361.6	4496.0	4568.0	4516.8	4409.6	4291.2	4225.6	4209.6
52.5°	4624.0	4633.6	4710.4	4867.2	5033.6	5121.6	5064.0	4936.0	4784.0	4723.2	4678.4
55°	5148.8	5156.8	5244.8	5422.4	5611.2	5715.2	5641.6	5480.0	5339.2	5233.6	5243.2
57.5°	5635.2	5659.2	5788.8	5996.8	6219.2	6345.6	6265.6	6094.4	5947.2	5827.2	5841.6
60°	6155.2	6180.8	6316.8	6564.8	6865.6	7033.6	6929.6	6745.6	6593.6	6480.0	6465.6
62.5°	6707.2	6721.6	6870.4	7092.8	7476.8	7747.2	7648.0	7444.8	7267.2	7155.2	7144.0
65°	7217.6	7236.8	7363.2	7606.4	8001.6	8396.8	8340.8	8059.2	7819.2	7657.6	7635.2
67.5°	7403.2	7416.0	7593.6	7934.4	8388.8	8779.2	8795.2	8352.0	8003.2	7806.4	7801.6
70°	7185.6	7195.2	7422.4	7827.2	8406.4	8731.2	8673.6	8228.8	7800.0	7558.4	7534.4
72.5°	6697.6	6699.2	6907.2	7251.2	7832.0	8097.6	7852.8	7608.0	7164.8	6984.0	6936.0
75°	5809.6	5811.2	5955.2	6184.0	6598.4	6843.2	6564.8	6340.8	6080.0	5972.8	5916.8
77.5°	3995.2	4019.2	4168.0	4432.0	4886.4	5156.8	4792.0	4385.6	4227.2	4136.0	4081.6
80°	1923.2	1960.0	2131.2	2392.0	2867.2	3299.2	2849.6	2348.8	2040.0	1788.8	1833.6
82.5°	513.6	520.0	667.2	958.4	1336.0	1568.0	1273.6	891.2	561.6	377.6	345.6
85°	136.0	144.0	201.6	276.8	420.8	536.0	409.6	260.8	198.4	147.2	134.4
87.5°	36.8	43.2	70.4	84.8	105.6	84.8	105.6	91.2	88.0	46.4	33.6
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)