

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: P157550

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157550
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9472.5 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - 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



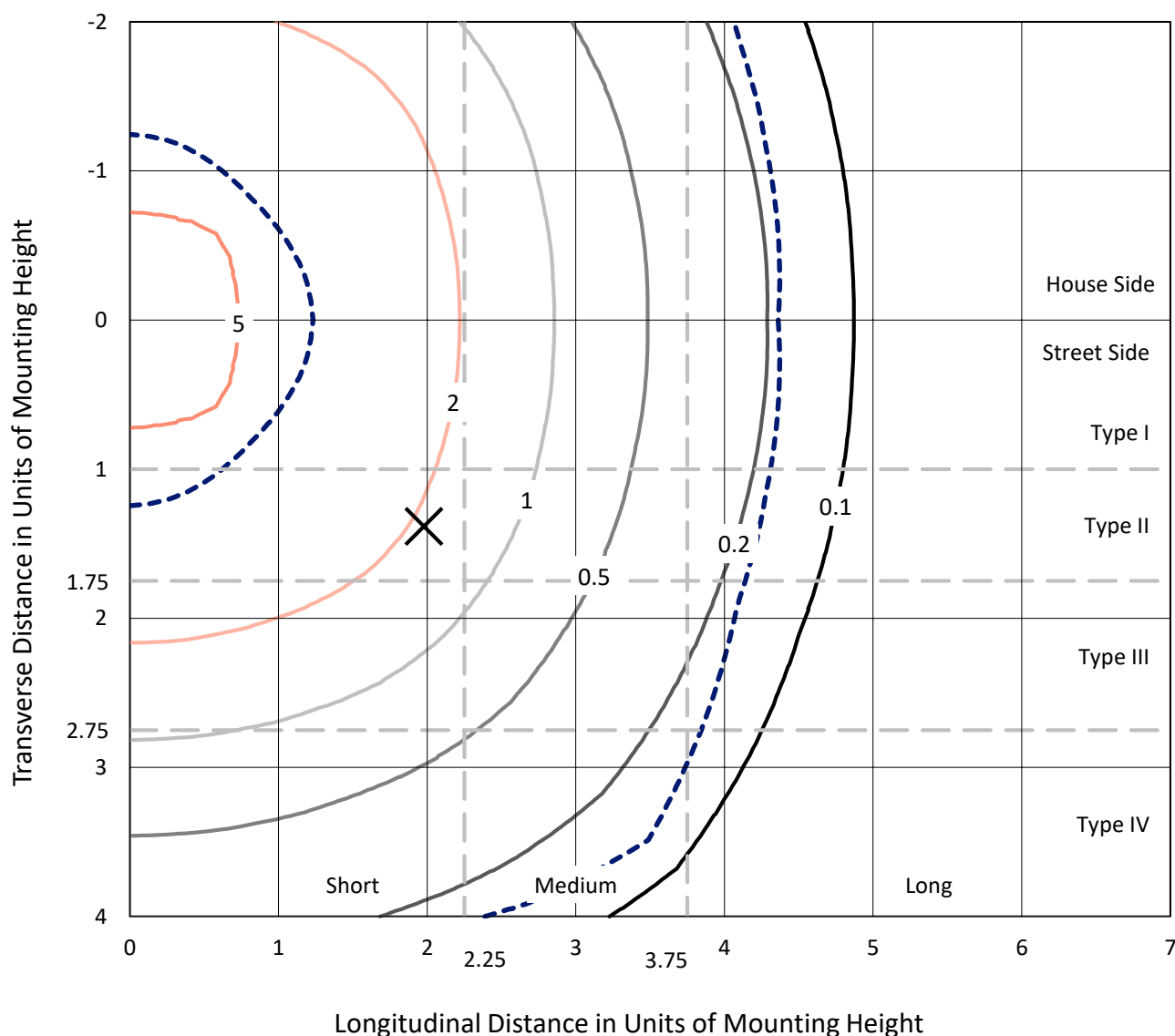
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

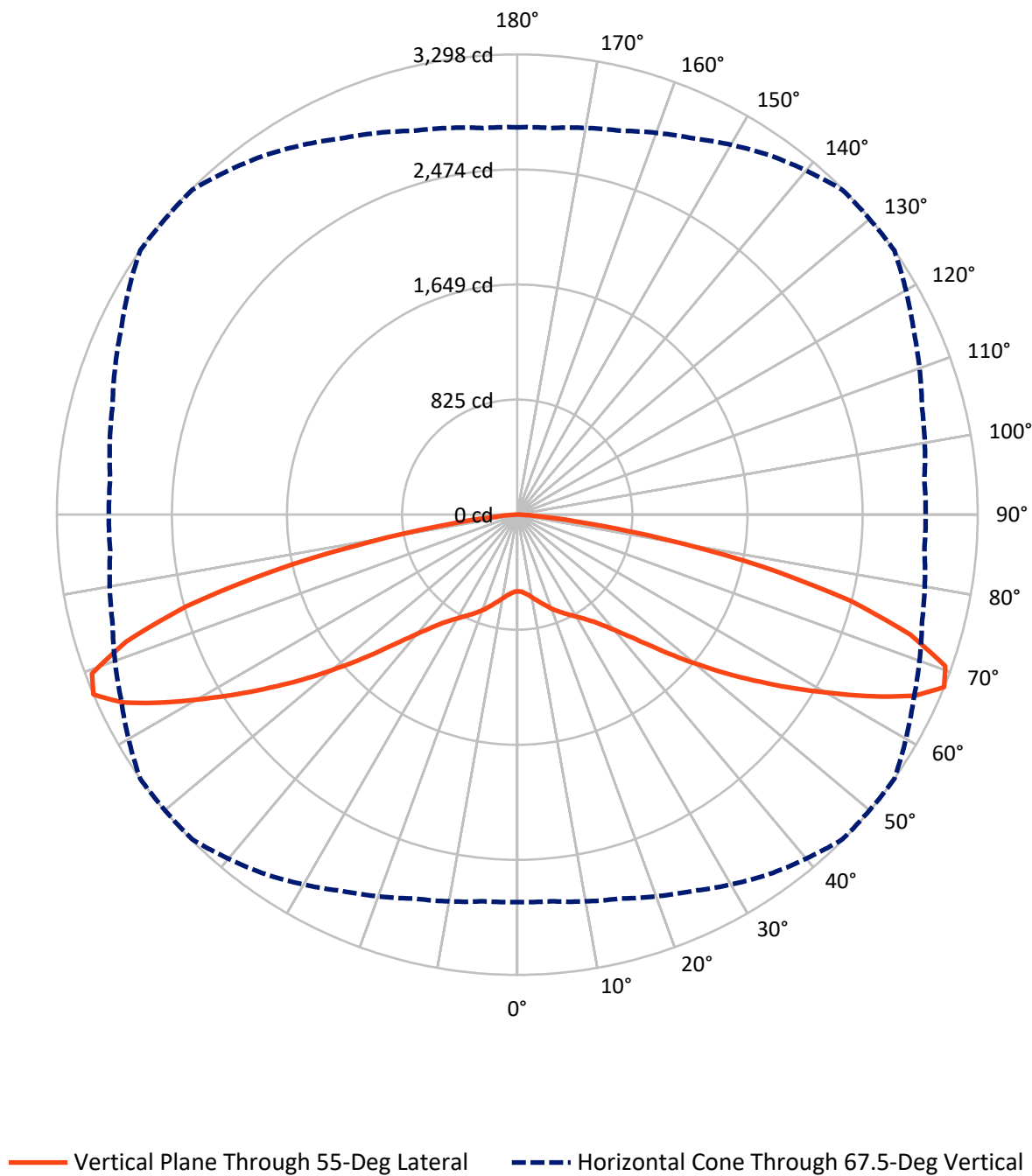


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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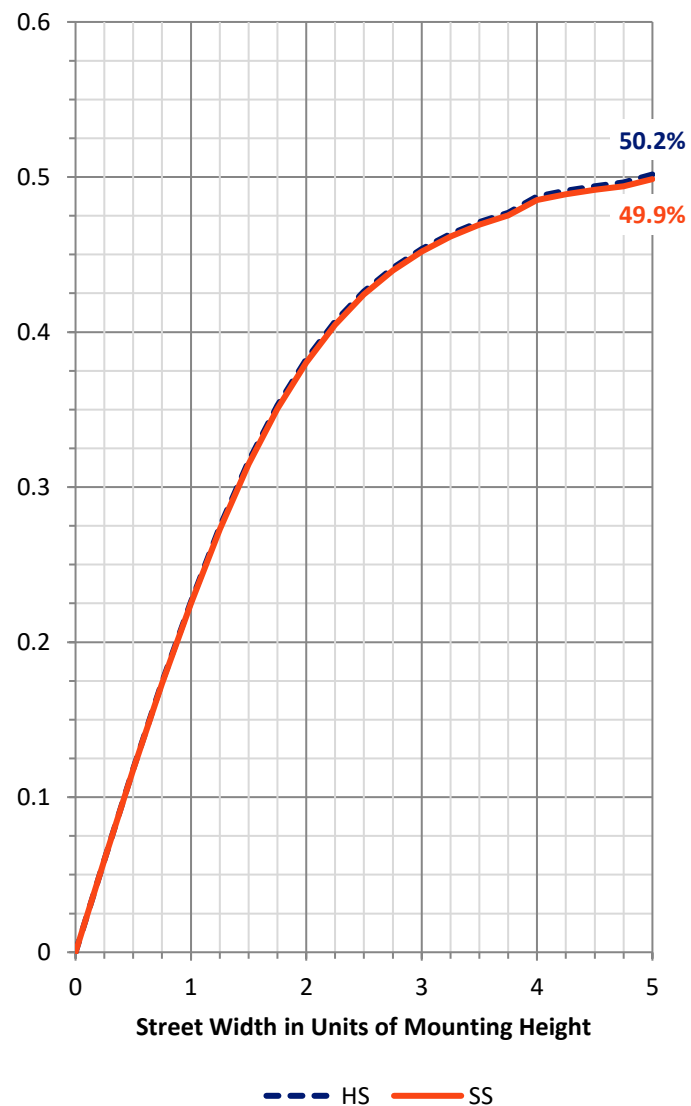
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4736.2	0.0	4736.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4736.2	0.0	4736.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9472.5	0.0	9472.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	0.6
10°-20°	188.5	2.0
20°-30°	362.4	3.8
30°-40°	593.7	6.3
40°-50°	1032.0	10.9
50°-60°	1842.1	19.4
60°-70°	2844.1	30.0
70°-80°	2302.3	24.3
80°-90°	252.2	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°	9472.5	100.0
0°-180°	9472.5	100.0

Coefficient of Utilization



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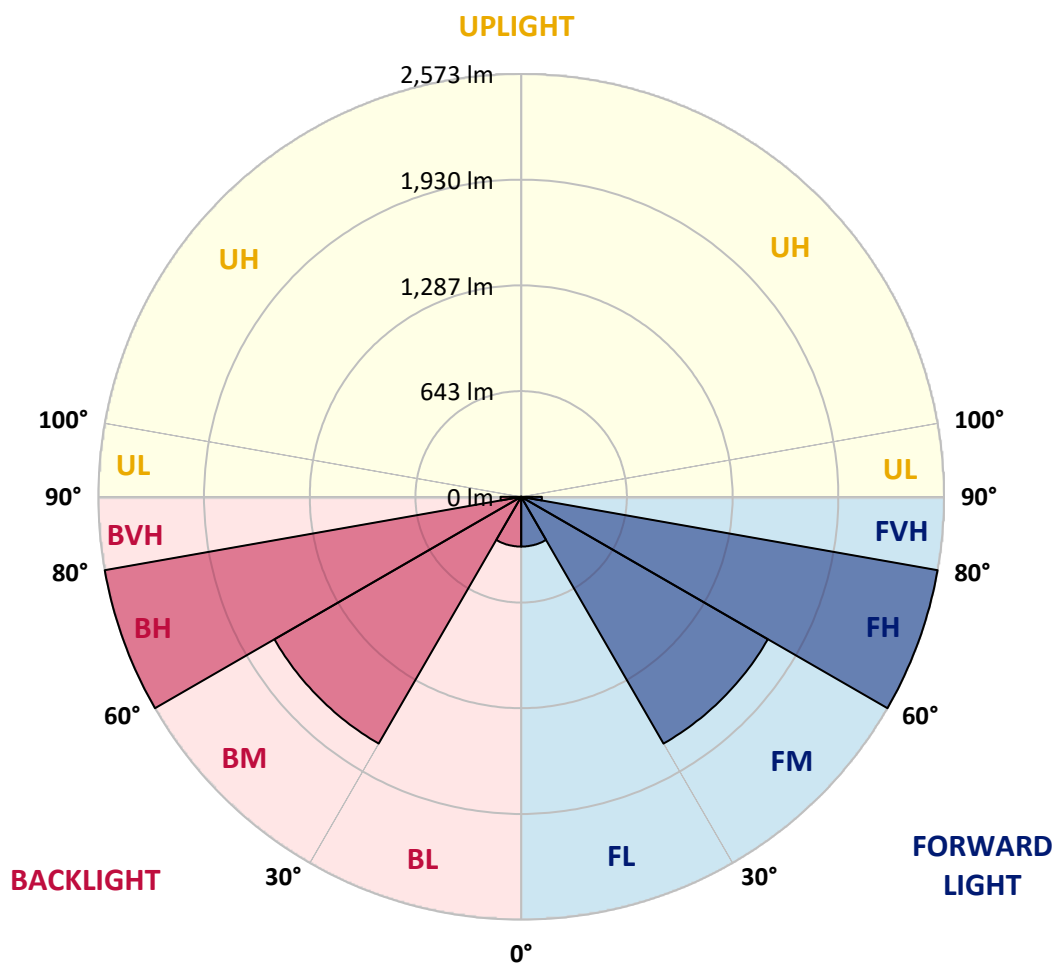
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.0	3.2			
FM	(30°-60°)	1733.9	18.3			
FH	(60°-80°)	2573.2	27.2			G2/5000
FVH	(80°-90°)	126.1	1.3			G2/225
BL	(0°-30°)	303.0	3.2	B1/500		
BM	(30°-60°)	1733.9	18.3	B2/2500		
BH	(60°-80°)	2573.2	27.2	B4/5000		G2/5000
BVH	(80°-90°)	126.1	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	553.2	553.8	553.2	553.2	552.6	552.6	552.6	553.2	553.2	554.4	553.8
5°	564.6	565.2	564.0	565.2	565.2	565.8	565.2	564.6	565.2	565.8	564.0
7.5°	580.8	582.0	581.4	582.0	582.6	582.0	582.0	581.4	582.6	582.0	580.8
10°	601.8	603.0	602.4	603.6	604.2	604.8	604.8	603.6	603.0	603.0	602.4
12.5°	627.0	627.0	627.0	628.8	630.0	631.2	630.6	629.4	627.6	628.2	625.8
15°	654.6	655.8	655.8	656.4	659.4	660.0	659.4	657.6	657.0	655.8	654.6
17.5°	685.2	685.8	686.4	687.0	690.6	692.4	690.0	687.0	687.0	686.4	686.4
20°	717.0	716.4	717.6	718.8	721.2	723.0	722.4	719.4	717.0	718.8	718.2
22.5°	746.4	747.0	747.6	749.4	753.6	754.2	752.4	750.0	747.0	747.6	747.6
25°	774.0	774.6	775.8	778.2	783.0	786.0	783.6	780.0	775.8	775.8	776.4
27.5°	802.2	802.8	803.4	807.6	813.6	817.2	815.4	809.4	804.6	803.4	801.6
30°	833.4	833.4	834.6	840.0	847.8	852.0	849.6	842.4	835.2	834.0	834.0
32.5°	873.0	870.6	872.4	879.6	888.0	892.8	891.0	882.6	873.6	871.8	871.8
35°	920.4	919.2	920.4	928.8	939.0	946.2	942.0	934.2	924.6	922.8	921.6
37.5°	976.8	977.4	981.0	990.6	1004.4	1013.4	1009.2	996.6	985.2	985.2	985.2
40°	1048.2	1049.4	1056.6	1071.0	1090.8	1098.6	1093.8	1078.2	1065.0	1060.2	1061.4
42.5°	1145.4	1144.8	1156.2	1174.2	1197.6	1209.0	1201.2	1184.4	1165.2	1157.4	1158.0
45°	1260.0	1268.4	1280.4	1303.2	1332.6	1352.4	1338.6	1320.0	1291.2	1279.8	1279.2
47.5°	1398.6	1407.6	1422.6	1460.4	1495.8	1519.8	1509.0	1478.4	1437.0	1420.8	1414.8
50°	1556.4	1567.8	1587.0	1635.6	1686.0	1713.0	1693.8	1653.6	1609.2	1584.6	1578.6
52.5°	1734.0	1737.6	1766.4	1825.2	1887.6	1920.6	1899.0	1851.0	1794.0	1771.2	1754.4
55°	1930.8	1933.8	1966.8	2033.4	2104.2	2143.2	2115.6	2055.0	2002.2	1962.6	1966.2
57.5°	2113.2	2122.2	2170.8	2248.8	2332.2	2379.6	2349.6	2285.4	2230.2	2185.2	2190.6
60°	2308.2	2317.8	2368.8	2461.8	2574.6	2637.6	2598.6	2529.6	2472.6	2430.0	2424.6
62.5°	2515.2	2520.6	2576.4	2659.8	2803.8	2905.2	2868.0	2791.8	2725.2	2683.2	2679.0
65°	2706.6	2713.8	2761.2	2852.4	3000.6	3148.8	3127.8	3022.2	2932.2	2871.6	2863.2
67.5°	2776.2	2781.0	2847.6	2975.4	3145.8	3292.2	3298.2	3132.0	3001.2	2927.4	2925.6
70°	2694.6	2698.2	2783.4	2935.2	3152.4	3274.2	3252.6	3085.8	2925.0	2834.4	2825.4
72.5°	2511.6	2512.2	2590.2	2719.2	2937.0	3036.6	2944.8	2853.0	2686.8	2619.0	2601.0
75°	2178.6	2179.2	2233.2	2319.0	2474.4	2566.2	2461.8	2377.8	2280.0	2239.8	2218.8
77.5°	1498.2	1507.2	1563.0	1662.0	1832.4	1933.8	1797.0	1644.6	1585.2	1551.0	1530.6
80°	721.2	735.0	799.2	897.0	1075.2	1237.2	1068.6	880.8	765.0	670.8	687.6
82.5°	192.6	195.0	250.2	359.4	501.0	588.0	477.6	334.2	210.6	141.6	129.6
85°	51.0	54.0	75.6	103.8	157.8	201.0	153.6	97.8	74.4	55.2	50.4
87.5°	13.8	16.2	26.4	31.8	39.6	31.8	39.6	34.2	33.0	17.4	12.6
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)