

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: P157599

Luminaire Tested: **VST-E08-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157599
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23071.2 lumens
Efficiency: N/A
Efficacy: 118.6 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



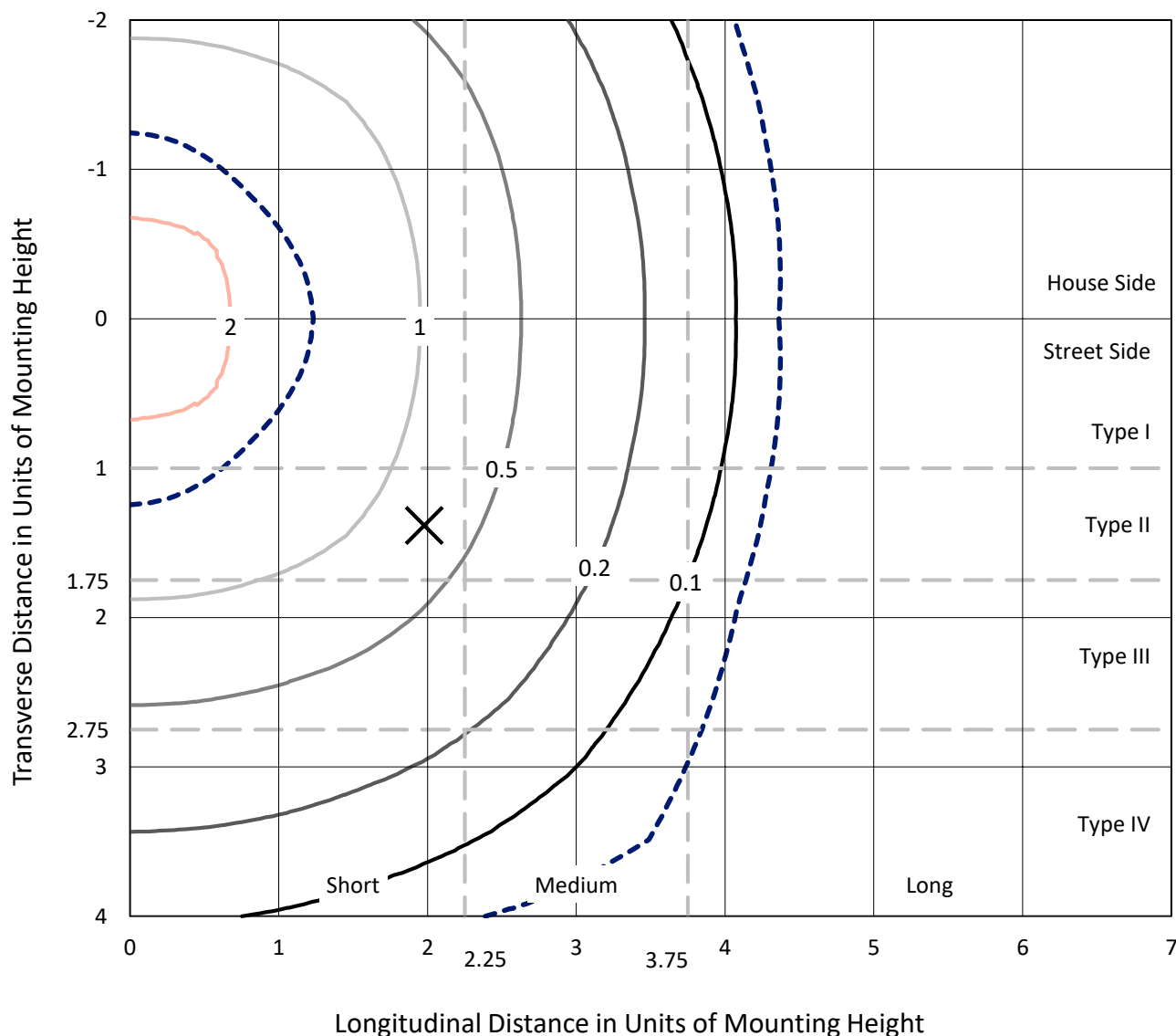
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

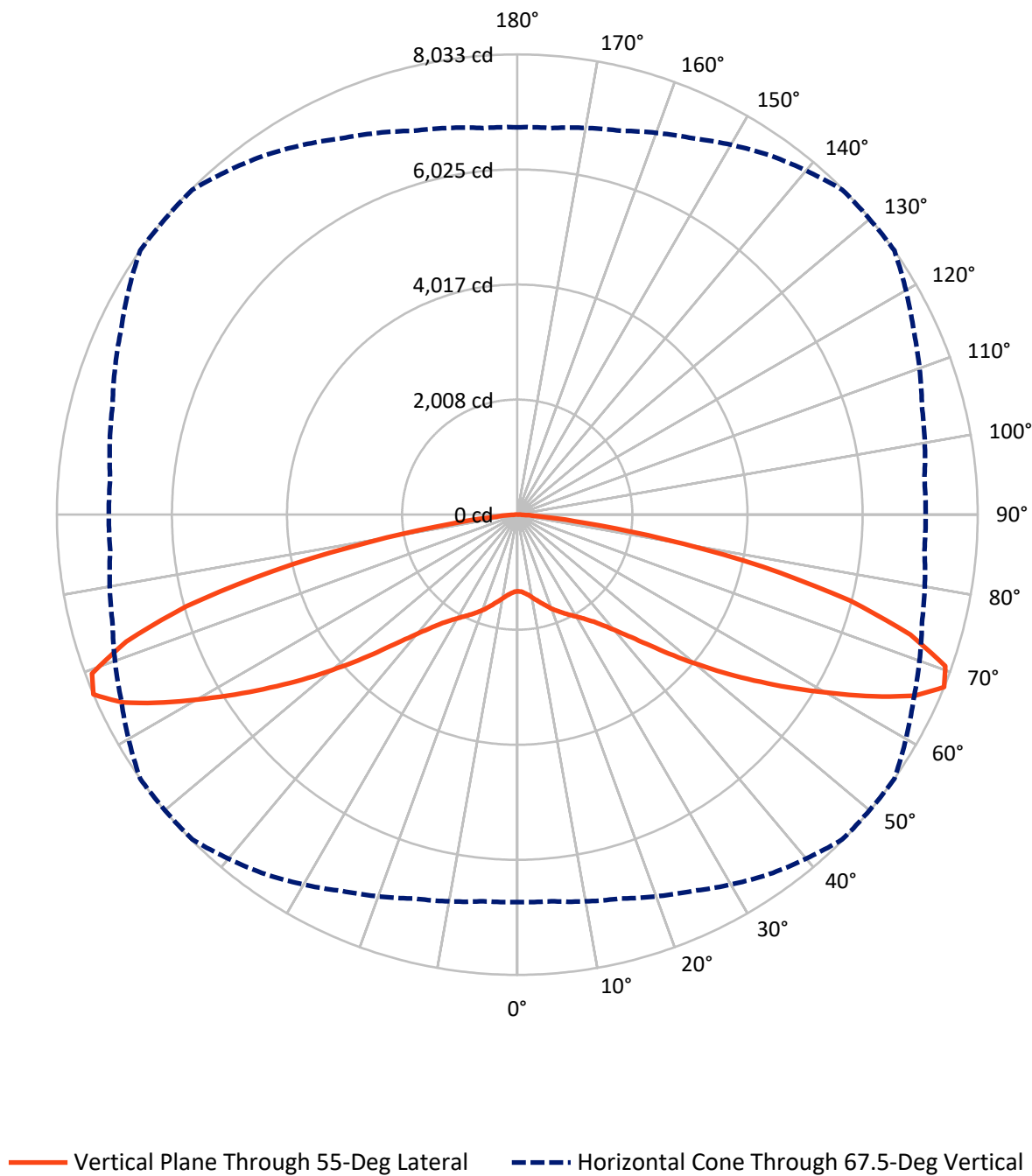


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11535.6	0.0	11535.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11535.6	0.0	11535.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23071.2	0.0	23071.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	0.6
10°-20°	459.0	2.0
20°-30°	882.7	3.8
30°-40°	1445.9	6.3
40°-50°	2513.6	10.9
50°-60°	4486.7	19.4
60°-70°	6927.1	30.0
70°-80°	5607.5	24.3
80°-90°	614.2	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°	23071.2	100.0
0°-180°	23071.2	100.0

Coefficient of Utilization



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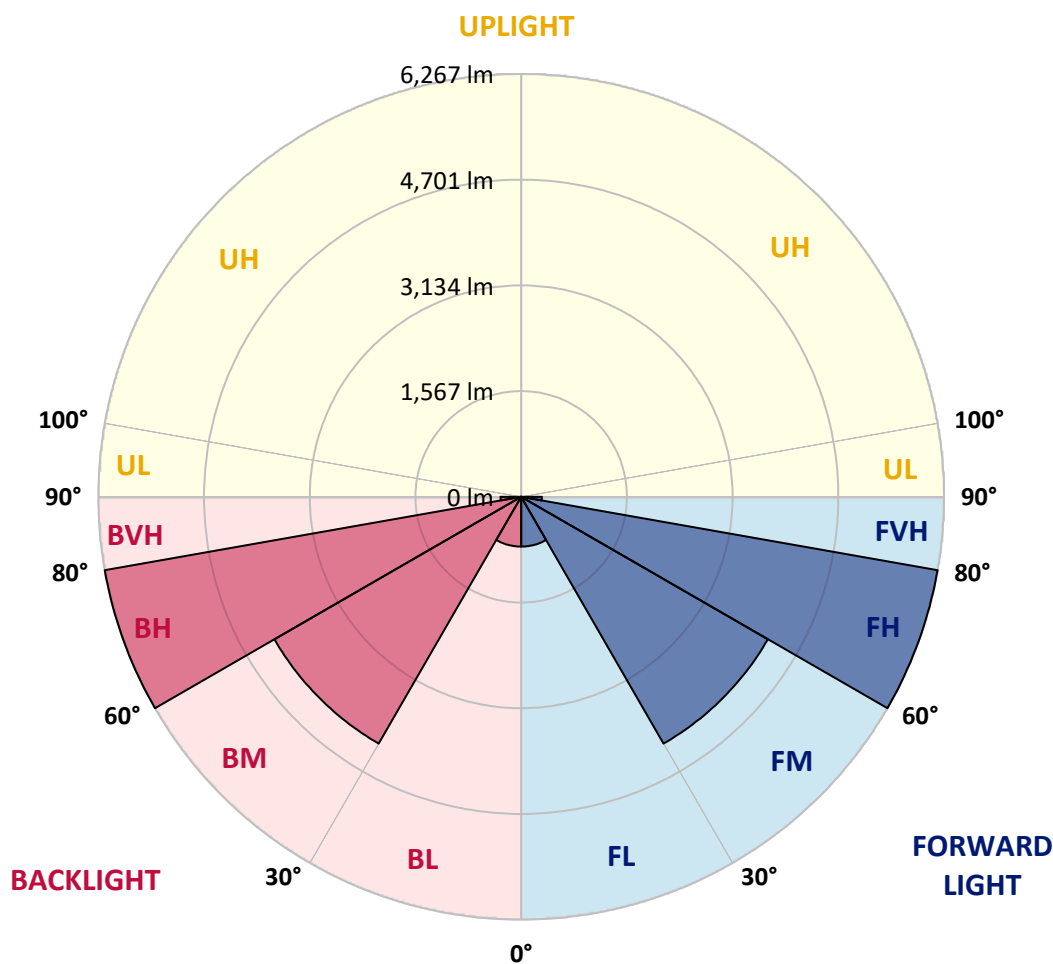
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.0	3.2			
FM	(30°-60°)	4223.1	18.3			
FH	(60°-80°)	6267.3	27.2			G3/7500
FVH	(80°-90°)	307.1	1.3			G3/500
BL	(0°-30°)	738.0	3.2	B2/1000		
BM	(30°-60°)	4223.1	18.3	B3/5000		
BH	(60°-80°)	6267.3	27.2	B5		G3/7500
BVH	(80°-90°)	307.1	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°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1347.4	1348.8	1347.4	1347.4	1345.9	1345.9	1345.9	1347.4	1347.4	1350.3	1348.8
5°	1375.1	1376.6	1373.7	1376.6	1376.6	1378.1	1376.6	1375.1	1376.6	1378.1	1373.7
7.5°	1414.6	1417.5	1416.1	1417.5	1419.0	1417.5	1417.5	1416.1	1419.0	1417.5	1414.6
10°	1465.7	1468.7	1467.2	1470.1	1471.6	1473.1	1473.1	1470.1	1468.7	1468.7	1467.2
12.5°	1527.1	1527.1	1527.1	1531.5	1534.4	1537.4	1535.9	1533.0	1528.6	1530.0	1524.2
15°	1594.3	1597.3	1597.3	1598.7	1606.0	1607.5	1606.0	1601.7	1600.2	1597.3	1594.3
17.5°	1668.9	1670.3	1671.8	1673.3	1682.0	1686.4	1680.6	1673.3	1673.3	1671.8	1671.8
20°	1746.3	1744.9	1747.8	1750.7	1756.6	1760.9	1759.5	1752.2	1746.3	1750.7	1749.2
22.5°	1817.9	1819.4	1820.9	1825.2	1835.5	1836.9	1832.5	1826.7	1819.4	1820.9	1820.9
25°	1885.2	1886.6	1889.5	1895.4	1907.1	1914.4	1908.5	1899.8	1889.5	1889.5	1891.0
27.5°	1953.8	1955.3	1956.8	1967.0	1981.6	1990.4	1986.0	1971.4	1959.7	1956.8	1952.4
30°	2029.8	2029.8	2032.8	2045.9	2064.9	2075.1	2069.3	2051.8	2034.2	2031.3	2031.3
32.5°	2126.3	2120.4	2124.8	2142.4	2162.8	2174.5	2170.1	2149.7	2127.7	2123.4	2123.4
35°	2241.7	2238.8	2241.7	2262.2	2287.0	2304.6	2294.3	2275.3	2252.0	2247.6	2244.6
37.5°	2379.1	2380.6	2389.3	2412.7	2446.3	2468.2	2458.0	2427.3	2399.6	2399.6	2399.6
40°	2553.0	2555.9	2573.5	2608.5	2656.8	2675.8	2664.1	2626.1	2593.9	2582.2	2585.1
42.5°	2789.7	2788.3	2816.0	2859.9	2916.9	2944.6	2925.6	2884.7	2838.0	2819.0	2820.4
45°	3068.9	3089.3	3118.5	3174.1	3245.7	3293.9	3260.3	3215.0	3144.8	3117.1	3115.6
47.5°	3406.4	3428.4	3464.9	3557.0	3643.2	3701.6	3675.3	3600.8	3500.0	3460.5	3445.9
50°	3790.8	3818.5	3865.3	3983.7	4106.4	4172.2	4125.4	4027.5	3919.4	3859.5	3844.8
52.5°	4223.3	4232.1	4302.2	4445.5	4597.4	4677.8	4625.2	4508.3	4369.5	4313.9	4273.0
55°	4702.7	4710.0	4790.3	4952.6	5125.0	5220.0	5152.8	5005.2	4876.6	4780.1	4788.9
57.5°	5146.9	5168.8	5287.2	5477.2	5680.3	5795.8	5722.7	5566.3	5431.9	5322.3	5335.4
60°	5621.9	5645.2	5769.5	5996.0	6270.7	6424.1	6329.2	6161.1	6022.3	5918.5	5905.4
62.5°	6126.0	6139.2	6275.1	6478.2	6828.9	7075.9	6985.3	6799.7	6637.5	6535.2	6525.0
65°	6592.2	6609.7	6725.2	6947.3	7308.3	7669.2	7618.1	7360.9	7141.7	6994.1	6973.6
67.5°	6761.7	6773.4	6935.6	7246.9	7661.9	8018.5	8033.1	7628.3	7309.7	7130.0	7125.6
70°	6563.0	6571.7	6779.3	7149.0	7678.0	7974.6	7922.0	7515.8	7124.1	6903.5	6881.5
72.5°	6117.3	6118.7	6308.7	6622.9	7153.4	7395.9	7172.4	6948.8	6544.0	6378.8	6335.0
75°	5306.2	5307.7	5439.2	5648.2	6026.7	6250.2	5996.0	5791.4	5553.2	5455.3	5404.1
77.5°	3649.0	3670.9	3806.8	4048.0	4463.0	4710.0	4376.8	4005.6	3860.9	3777.6	3727.9
80°	1756.6	1790.2	1946.5	2184.7	2618.8	3013.3	2602.7	2145.3	1863.2	1633.8	1674.7
82.5°	469.1	474.9	609.4	875.4	1220.2	1432.1	1163.2	814.0	512.9	344.9	315.7
85°	124.2	131.5	184.1	252.8	384.3	489.6	374.1	238.2	181.2	134.4	122.8
87.5°	33.6	39.5	64.3	77.5	96.4	77.5	96.4	83.3	80.4	42.4	30.7
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)