

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: P157609

Luminaire Tested: **VST-E09-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157609
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-E09-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (189) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25955.1 lumens
Efficiency: N/A
Efficacy: 115.0 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): 225.7
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



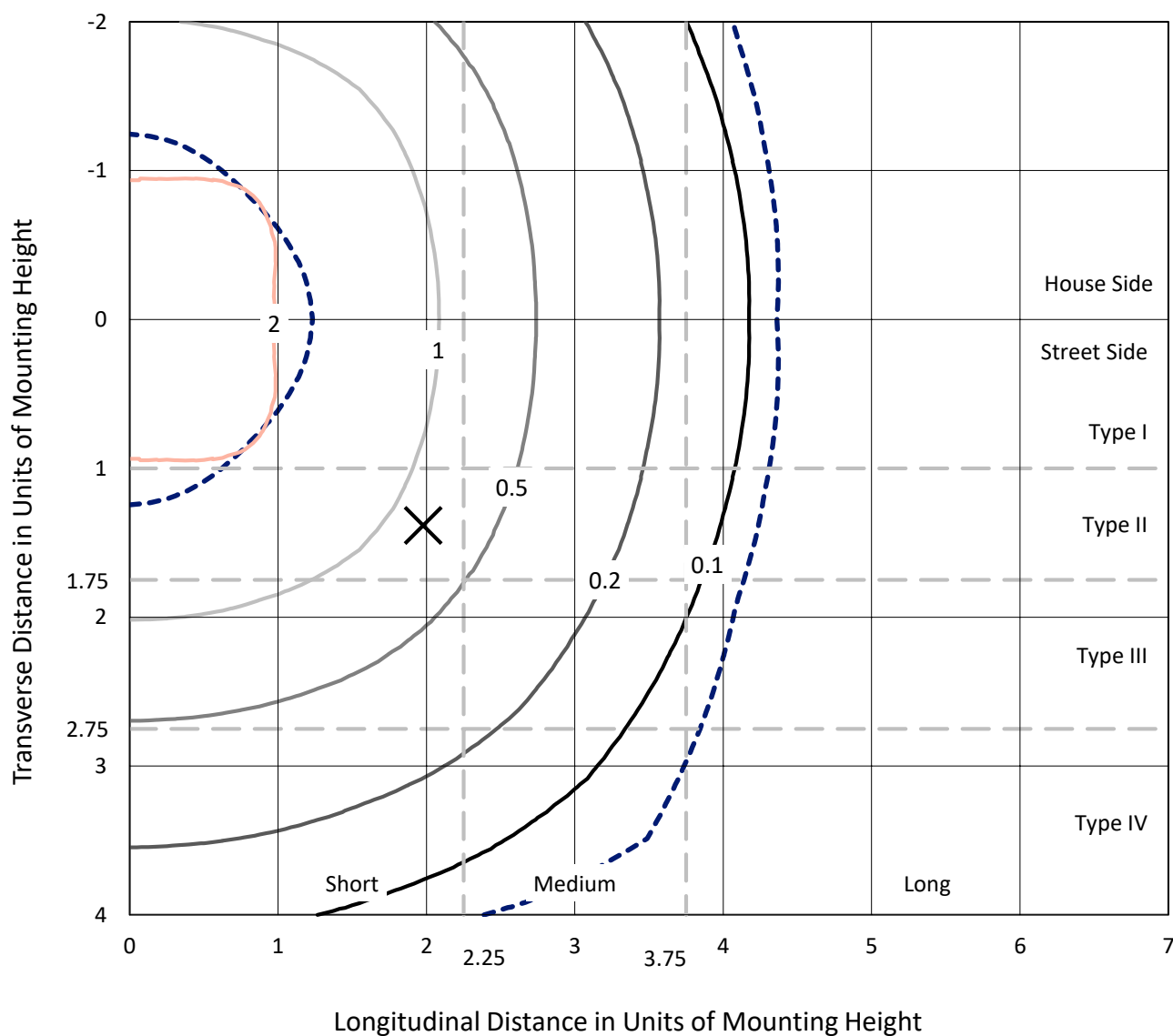
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

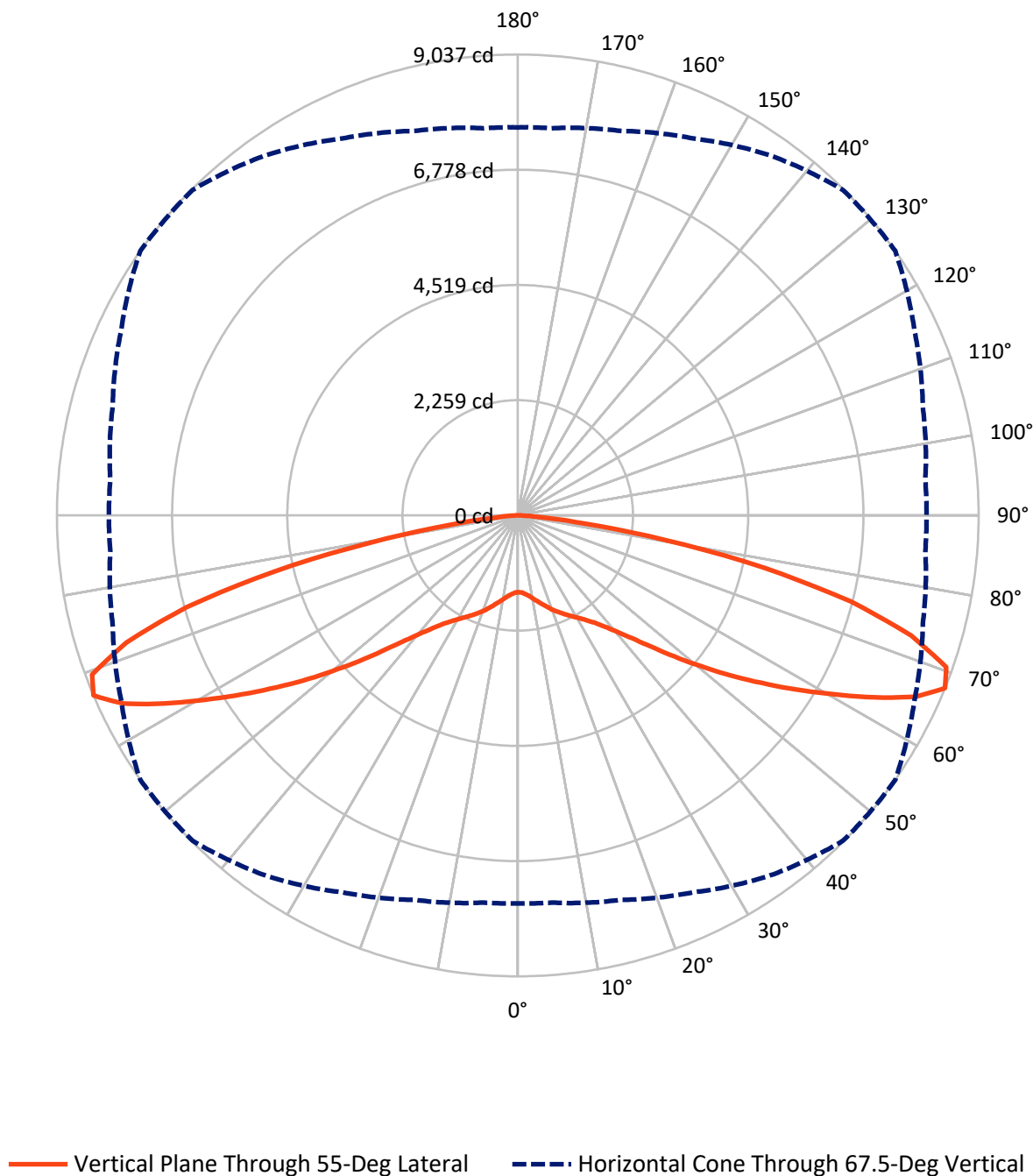


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12977.5	0.0	12977.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12977.5	0.0	12977.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25955.1	0.0	25955.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	0.6
10°-20°	516.4	2.0
20°-30°	993.0	3.8
30°-40°	1626.7	6.3
40°-50°	2827.8	10.9
50°-60°	5047.5	19.4
60°-70°	7793.0	30.0
70°-80°	6308.5	24.3
80°-90°	691.0	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°	25955.1	100.0
0°-180°	25955.1	100.0

Coefficient of Utilization



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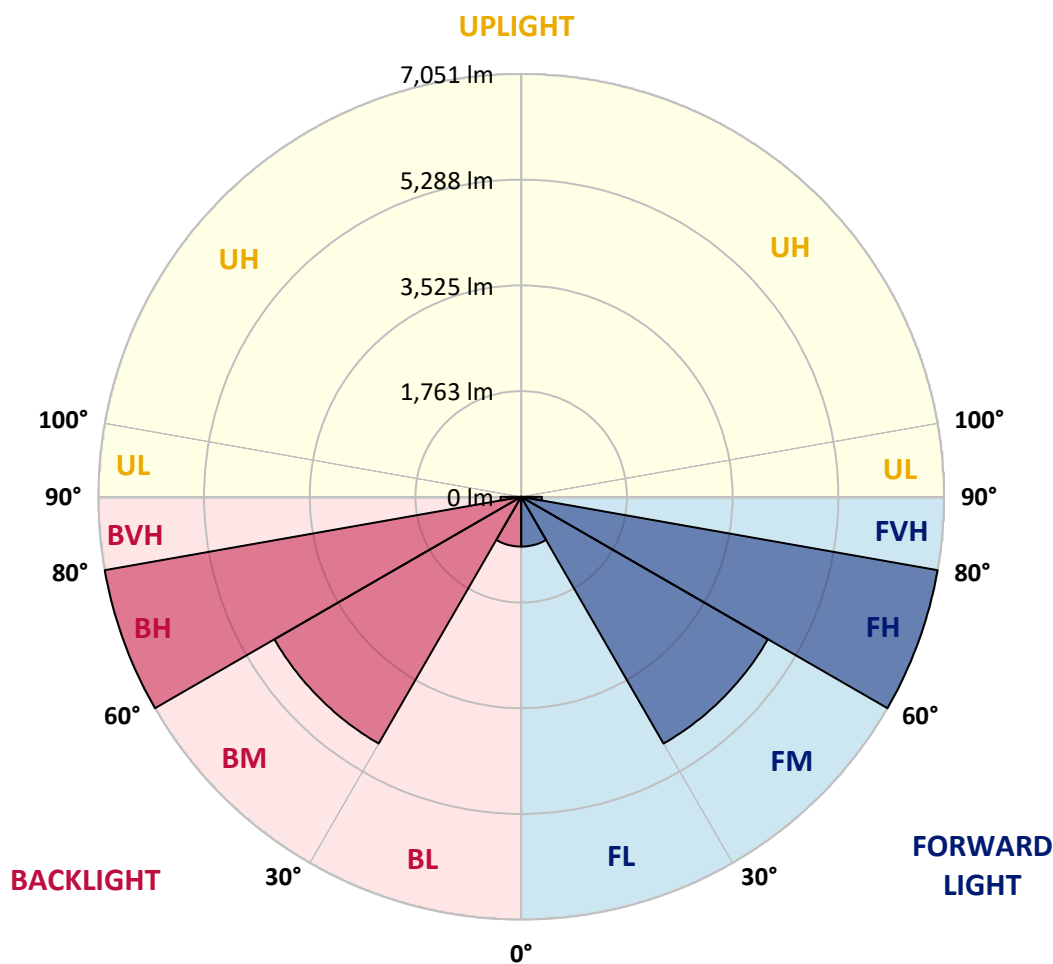
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.3	3.2			
FM	(30°-60°)	4751.0	18.3			
FH	(60°-80°)	7050.8	27.2			G3/7500
FVH	(80°-90°)	345.5	1.3			G3/500
BL	(0°-30°)	830.3	3.2	B2/1000		
BM	(30°-60°)	4751.0	18.3	B3/5000		
BH	(60°-80°)	7050.8	27.2	B5		G3/7500
BVH	(80°-90°)	345.5	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°	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9
2.5°	1515.8	1517.4	1515.8	1515.8	1514.2	1514.2	1514.2	1515.8	1515.8	1519.1	1517.4
5°	1547.0	1548.7	1545.4	1548.7	1548.7	1550.3	1548.7	1547.0	1548.7	1550.3	1545.4
7.5°	1591.4	1594.7	1593.1	1594.7	1596.4	1594.7	1594.7	1593.1	1596.4	1594.7	1591.4
10°	1649.0	1652.3	1650.6	1653.9	1655.5	1657.2	1657.2	1653.9	1652.3	1652.3	1650.6
12.5°	1718.0	1718.0	1718.0	1722.9	1726.2	1729.5	1727.9	1724.6	1719.7	1721.3	1714.7
15°	1793.6	1796.9	1796.9	1798.6	1806.8	1808.4	1806.8	1801.9	1800.2	1796.9	1793.6
17.5°	1877.5	1879.1	1880.8	1882.4	1892.3	1897.2	1890.6	1882.4	1882.4	1880.8	1880.8
20°	1964.6	1963.0	1966.3	1969.5	1976.1	1981.1	1979.4	1971.2	1964.6	1969.5	1967.9
22.5°	2045.2	2046.8	2048.5	2053.4	2064.9	2066.5	2061.6	2055.0	2046.8	2048.5	2048.5
25°	2120.8	2122.4	2125.7	2132.3	2145.5	2153.7	2147.1	2137.2	2125.7	2125.7	2127.4
27.5°	2198.1	2199.7	2201.4	2212.9	2229.3	2239.2	2234.2	2217.8	2204.6	2201.4	2196.4
30°	2283.6	2283.6	2286.8	2301.6	2323.0	2334.5	2327.9	2308.2	2288.5	2285.2	2285.2
32.5°	2392.1	2385.5	2390.4	2410.1	2433.2	2446.3	2441.4	2418.4	2393.7	2388.8	2388.8
35°	2521.9	2518.7	2521.9	2545.0	2572.9	2592.6	2581.1	2559.8	2533.5	2528.5	2525.2
37.5°	2676.5	2678.1	2688.0	2714.3	2752.1	2776.8	2765.3	2730.7	2699.5	2699.5	2699.5
40°	2872.1	2875.4	2895.1	2934.6	2988.8	3010.2	2997.1	2954.3	2918.2	2905.0	2908.3
42.5°	3138.5	3136.8	3168.0	3217.4	3281.5	3312.7	3291.3	3245.3	3192.7	3171.3	3173.0
45°	3452.5	3475.5	3508.4	3570.8	3651.4	3705.6	3667.8	3616.9	3538.0	3506.7	3505.1
47.5°	3832.2	3856.9	3898.0	4001.6	4098.6	4164.3	4134.7	4050.9	3937.5	3893.1	3876.6
50°	4264.6	4295.9	4348.5	4481.6	4619.7	4693.7	4641.1	4530.9	4409.3	4341.9	4325.4
52.5°	4751.2	4761.1	4840.0	5001.1	5172.1	5262.5	5203.4	5071.8	4915.7	4853.2	4807.1
55°	5290.5	5298.7	5389.1	5571.6	5765.6	5872.5	5796.9	5630.8	5486.1	5377.6	5387.5
57.5°	5790.3	5814.9	5948.1	6161.8	6390.3	6520.2	6438.0	6262.1	6110.9	5987.6	6002.4
60°	6324.6	6350.9	6490.6	6745.5	7054.5	7227.2	7120.3	6931.2	6775.1	6658.3	6643.5
62.5°	6891.8	6906.6	7059.5	7288.0	7682.6	7960.4	7858.5	7649.7	7467.2	7352.1	7340.6
65°	7416.2	7436.0	7565.8	7815.7	8221.8	8627.9	8570.3	8281.0	8034.4	7868.3	7845.3
67.5°	7606.9	7620.1	7802.6	8152.7	8619.7	9020.8	9037.2	8581.8	8223.4	8021.2	8016.3
70°	7383.3	7393.2	7626.7	8042.6	8637.7	8971.5	8912.3	8455.2	8014.6	7766.4	7741.7
72.5°	6881.9	6883.6	7097.3	7450.7	8047.5	8320.4	8068.9	7817.4	7362.0	7176.2	7126.9
75°	5969.5	5971.1	6119.1	6354.2	6780.0	7031.5	6745.5	6515.3	6247.3	6137.2	6079.6
77.5°	4105.1	4129.8	4282.7	4554.0	5020.9	5298.7	4923.9	4506.3	4343.5	4249.8	4193.9
80°	1976.1	2013.9	2189.8	2457.8	2946.1	3390.0	2928.0	2413.4	2096.1	1838.0	1884.1
82.5°	527.7	534.3	685.6	984.8	1372.8	1611.2	1308.6	915.7	577.1	388.0	355.1
85°	139.7	148.0	207.1	284.4	432.4	550.8	420.9	268.0	203.9	151.3	138.1
87.5°	37.8	44.4	72.3	87.1	108.5	87.1	108.5	93.7	90.4	47.7	34.5
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)