

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: P157601

Luminaire Tested: **VST-E08-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157601
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25919.4 lumens
Efficiency: N/A
Efficacy: 133.3 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



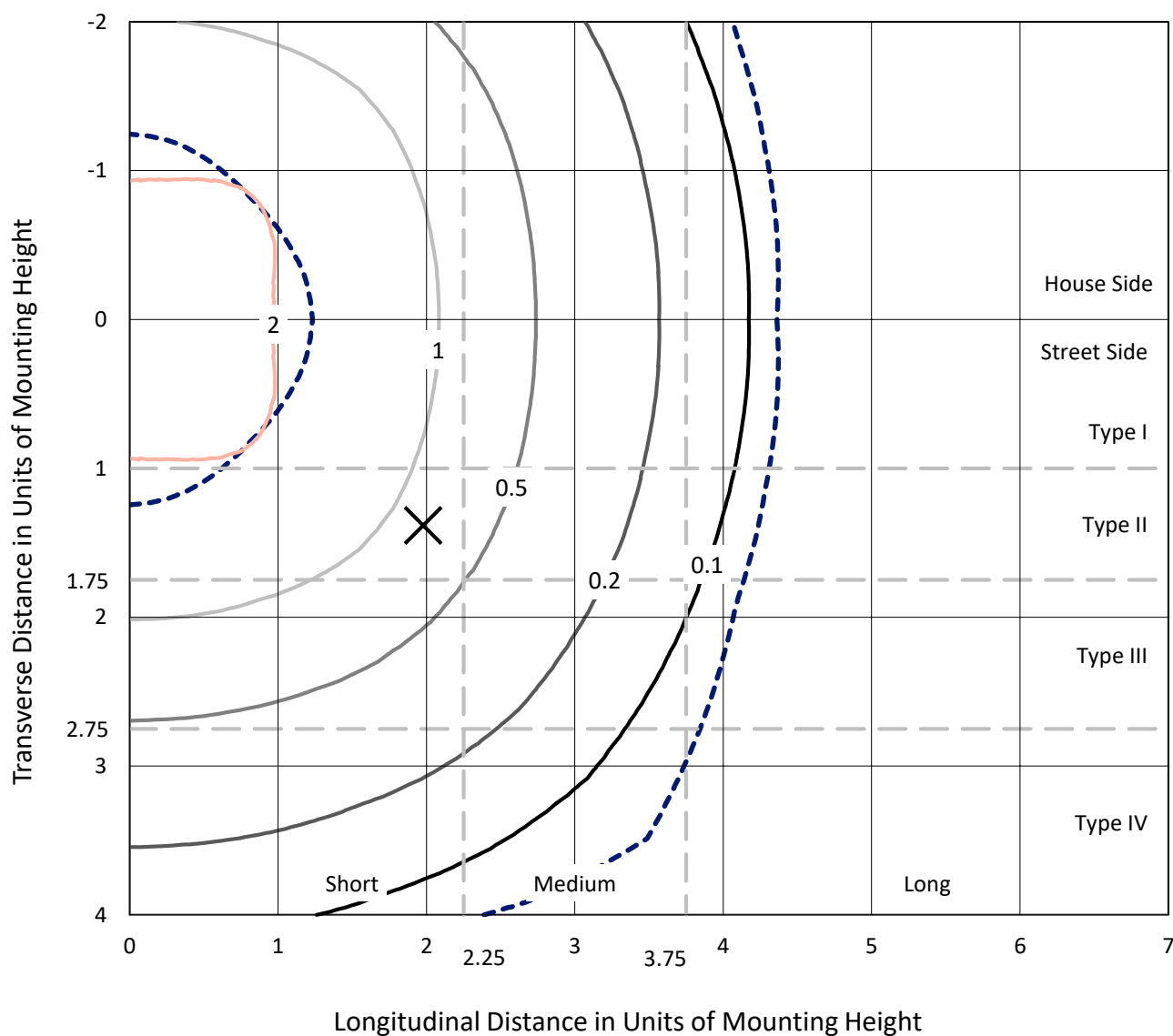
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

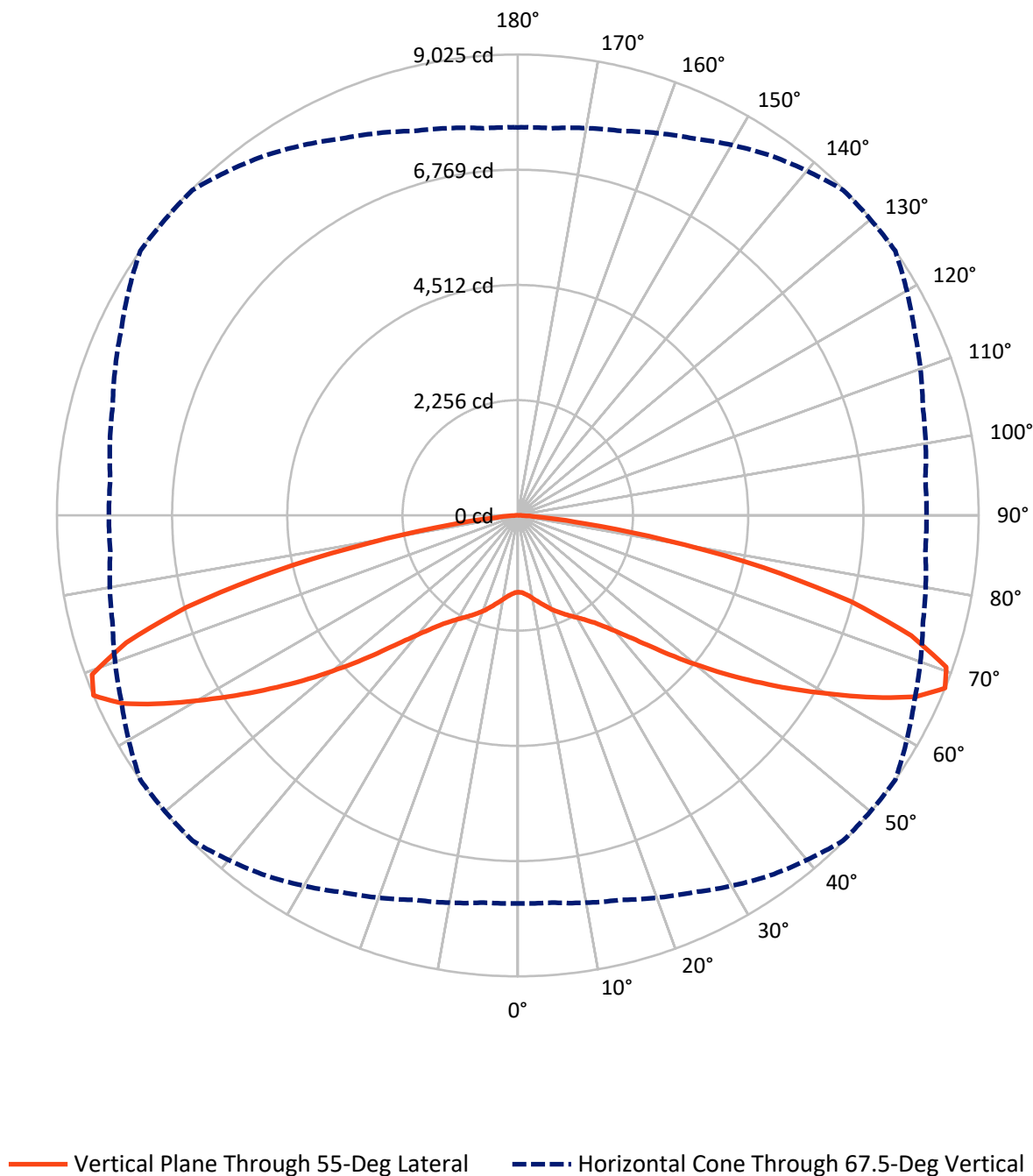


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12959.7	0.0	12959.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12959.7	0.0	12959.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	25919.4	0.0	25919.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	0.6
10°-20°	515.7	2.0
20°-30°	991.6	3.8
30°-40°	1624.4	6.3
40°-50°	2823.9	10.9
50°-60°	5040.6	19.4
60°-70°	7782.3	30.0
70°-80°	6299.8	24.3
80°-90°	690.1	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°	25919.4	100.0
0°-180°	25919.4	100.0

Coefficient of Utilization



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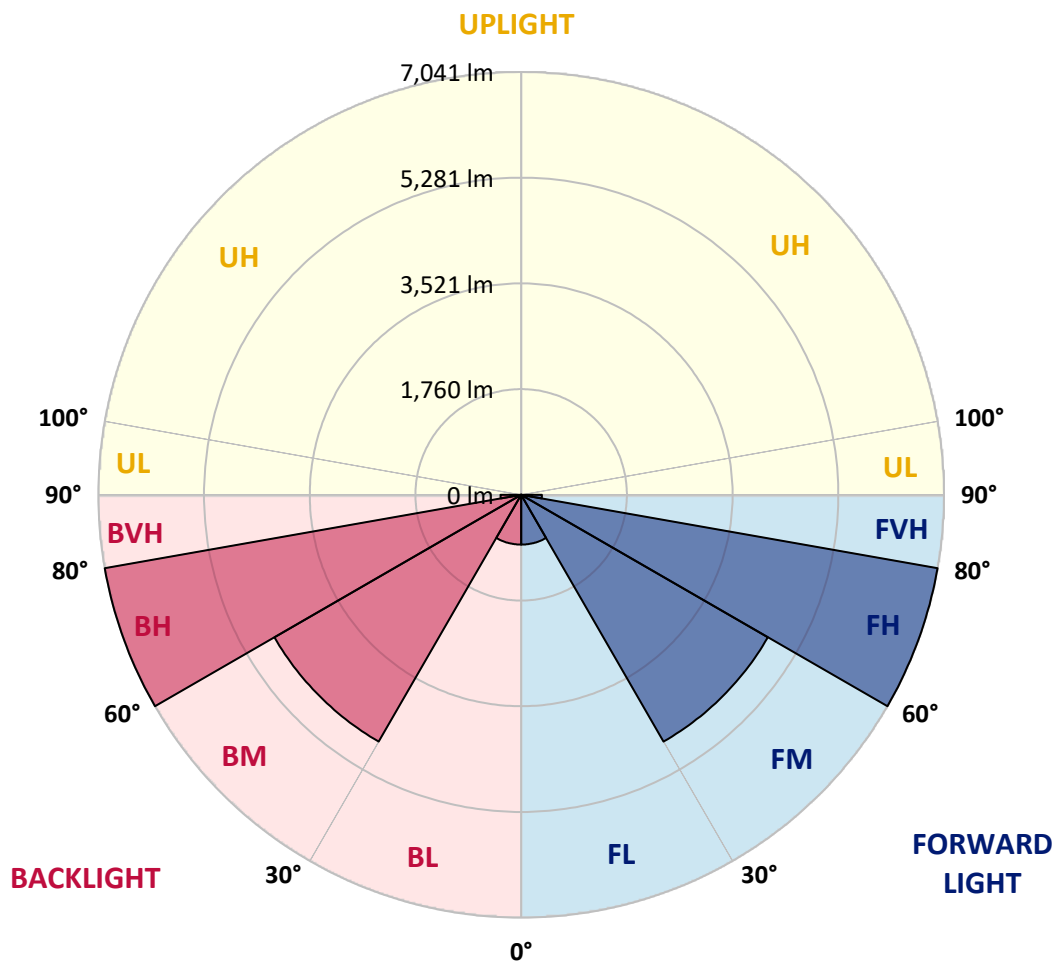
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	829.1	3.2			
FM	(30°-60°)	4744.5	18.3			
FH	(60°-80°)	7041.0	27.2			G3/7500
FVH	(80°-90°)	345.0	1.3			G3/500
BL	(0°-30°)	829.1	3.2	B2/1000		
BM	(30°-60°)	4744.5	18.3	B3/5000		
BH	(60°-80°)	7041.0	27.2	B5		G3/7500
BVH	(80°-90°)	345.0	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°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1513.7	1515.4	1513.7	1513.7	1512.1	1512.1	1512.1	1513.7	1513.7	1517.0	1515.4
5°	1544.9	1546.5	1543.3	1546.5	1546.5	1548.2	1546.5	1544.9	1546.5	1548.2	1543.3
7.5°	1589.2	1592.5	1590.9	1592.5	1594.2	1592.5	1592.5	1590.9	1594.2	1592.5	1589.2
10°	1646.7	1650.0	1648.3	1651.6	1653.3	1654.9	1654.9	1651.6	1650.0	1650.0	1648.3
12.5°	1715.6	1715.6	1715.6	1720.6	1723.9	1727.1	1725.5	1722.2	1717.3	1718.9	1712.4
15°	1791.2	1794.5	1794.5	1796.1	1804.3	1805.9	1804.3	1799.4	1797.7	1794.5	1791.2
17.5°	1874.9	1876.5	1878.2	1879.8	1889.7	1894.6	1888.0	1879.8	1879.8	1878.2	1878.2
20°	1961.9	1960.3	1963.6	1966.8	1973.4	1978.3	1976.7	1968.5	1961.9	1966.8	1965.2
22.5°	2042.4	2044.0	2045.6	2050.6	2062.1	2063.7	2058.8	2052.2	2044.0	2045.6	2045.6
25°	2117.9	2119.5	2122.8	2129.4	2142.5	2150.7	2144.1	2134.3	2122.8	2122.8	2124.4
27.5°	2195.0	2196.7	2198.3	2209.8	2226.2	2236.1	2231.2	2214.7	2201.6	2198.3	2193.4
30°	2280.4	2280.4	2283.7	2298.5	2319.8	2331.3	2324.7	2305.0	2285.3	2282.1	2282.1
32.5°	2388.8	2382.2	2387.1	2406.8	2429.8	2443.0	2438.0	2415.0	2390.4	2385.5	2385.5
35°	2518.5	2515.2	2518.5	2541.5	2569.4	2589.1	2577.6	2556.2	2530.0	2525.0	2521.8
37.5°	2672.8	2674.4	2684.3	2710.6	2748.3	2772.9	2761.5	2727.0	2695.8	2695.8	2695.8
40°	2868.2	2871.5	2891.2	2930.6	2984.7	3006.1	2992.9	2950.3	2914.1	2901.0	2904.3
42.5°	3134.1	3132.5	3163.7	3212.9	3277.0	3308.2	3286.8	3240.9	3188.3	3167.0	3168.6
45°	3447.7	3470.7	3503.5	3565.9	3646.4	3700.5	3662.8	3611.9	3533.1	3501.9	3500.3
47.5°	3827.0	3851.6	3892.6	3996.1	4092.9	4158.6	4129.0	4045.3	3932.0	3887.7	3871.3
50°	4258.7	4289.9	4342.5	4475.5	4613.4	4687.2	4634.7	4524.7	4403.2	4335.9	4319.5
52.5°	4744.7	4754.6	4833.4	4994.3	5165.0	5255.3	5196.2	5064.9	4908.9	4846.5	4800.5
55°	5283.2	5291.4	5381.7	5564.0	5757.7	5864.4	5788.9	5623.1	5478.6	5370.2	5380.1
57.5°	5782.3	5806.9	5939.9	6153.3	6381.6	6511.3	6429.2	6253.5	6102.5	5979.3	5994.1
60°	6315.9	6342.2	6481.7	6736.2	7044.8	7217.2	7110.5	6921.7	6765.7	6649.2	6634.4
62.5°	6882.3	6897.1	7049.8	7278.0	7672.0	7949.4	7847.7	7639.1	7456.9	7342.0	7330.5
65°	7406.0	7425.7	7555.4	7805.0	8210.5	8616.0	8558.5	8269.6	8023.3	7857.5	7834.5
67.5°	7596.5	7609.6	7791.8	8141.5	8607.8	9008.4	9024.8	8570.0	8212.1	8010.2	8005.3
70°	7373.2	7383.0	7616.2	8031.5	8625.9	8959.1	8900.0	8443.6	8003.6	7755.7	7731.1
72.5°	6872.4	6874.1	7087.5	7440.5	8036.5	8309.0	8057.8	7806.6	7351.8	7166.3	7117.1
75°	5961.3	5962.9	6110.7	6345.4	6770.7	7021.8	6736.2	6506.3	6238.7	6128.7	6071.3
77.5°	4099.5	4124.1	4276.8	4547.7	5014.0	5291.4	4917.1	4500.1	4337.6	4244.0	4188.2
80°	1973.4	2011.2	2186.8	2454.4	2942.0	3385.3	2924.0	2410.1	2093.3	1835.5	1881.5
82.5°	527.0	533.6	684.6	983.4	1370.9	1608.9	1306.8	914.5	576.3	387.5	354.6
85°	139.6	147.8	206.9	284.0	431.8	550.0	420.3	267.6	203.6	151.0	137.9
87.5°	37.8	44.3	72.2	87.0	108.4	87.0	108.4	93.6	90.3	47.6	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)