

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: P157610

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157610
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (189) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28417.4 lumens
Efficiency: N/A
Efficacy: 125.9 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 - G4

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



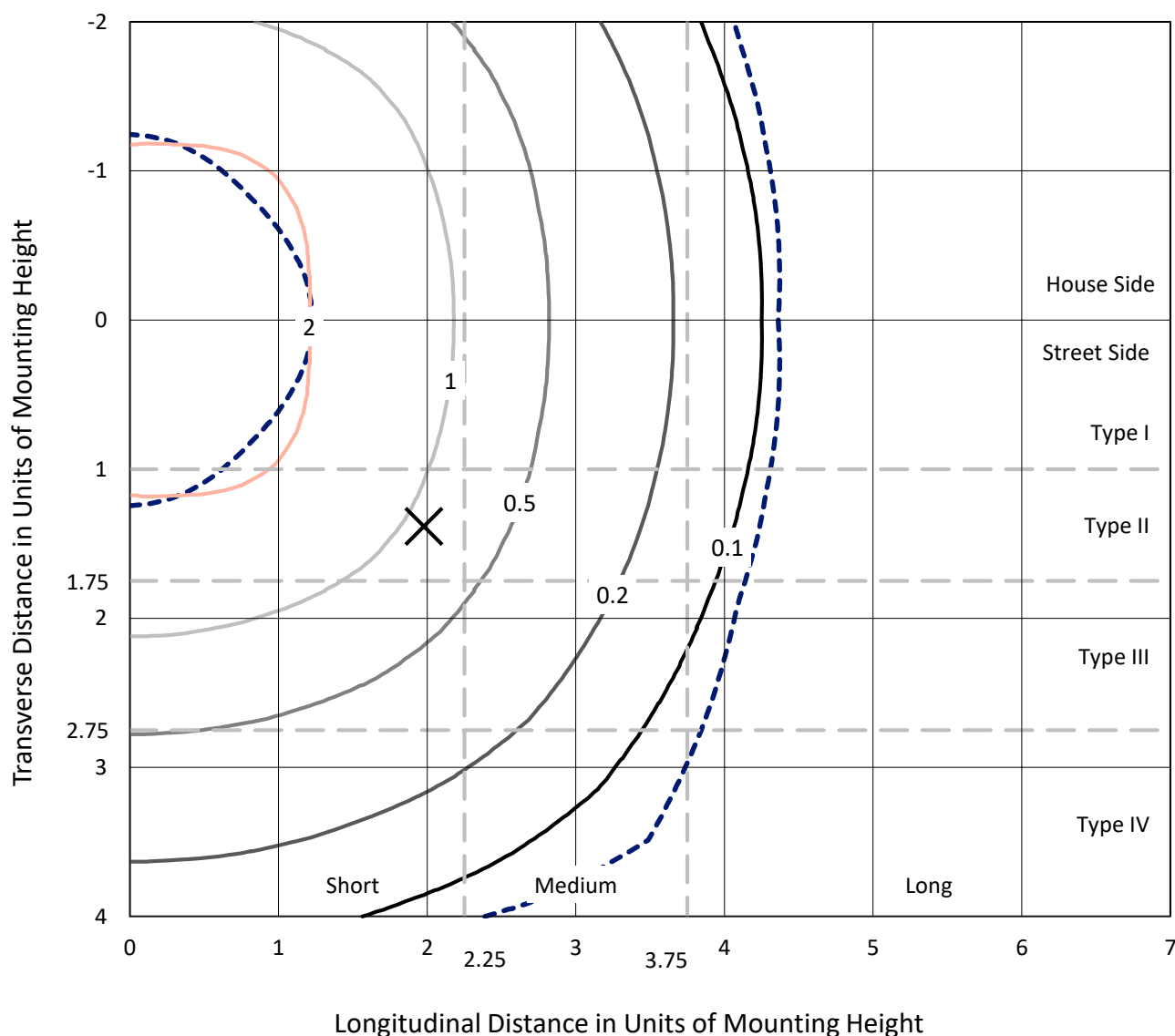
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

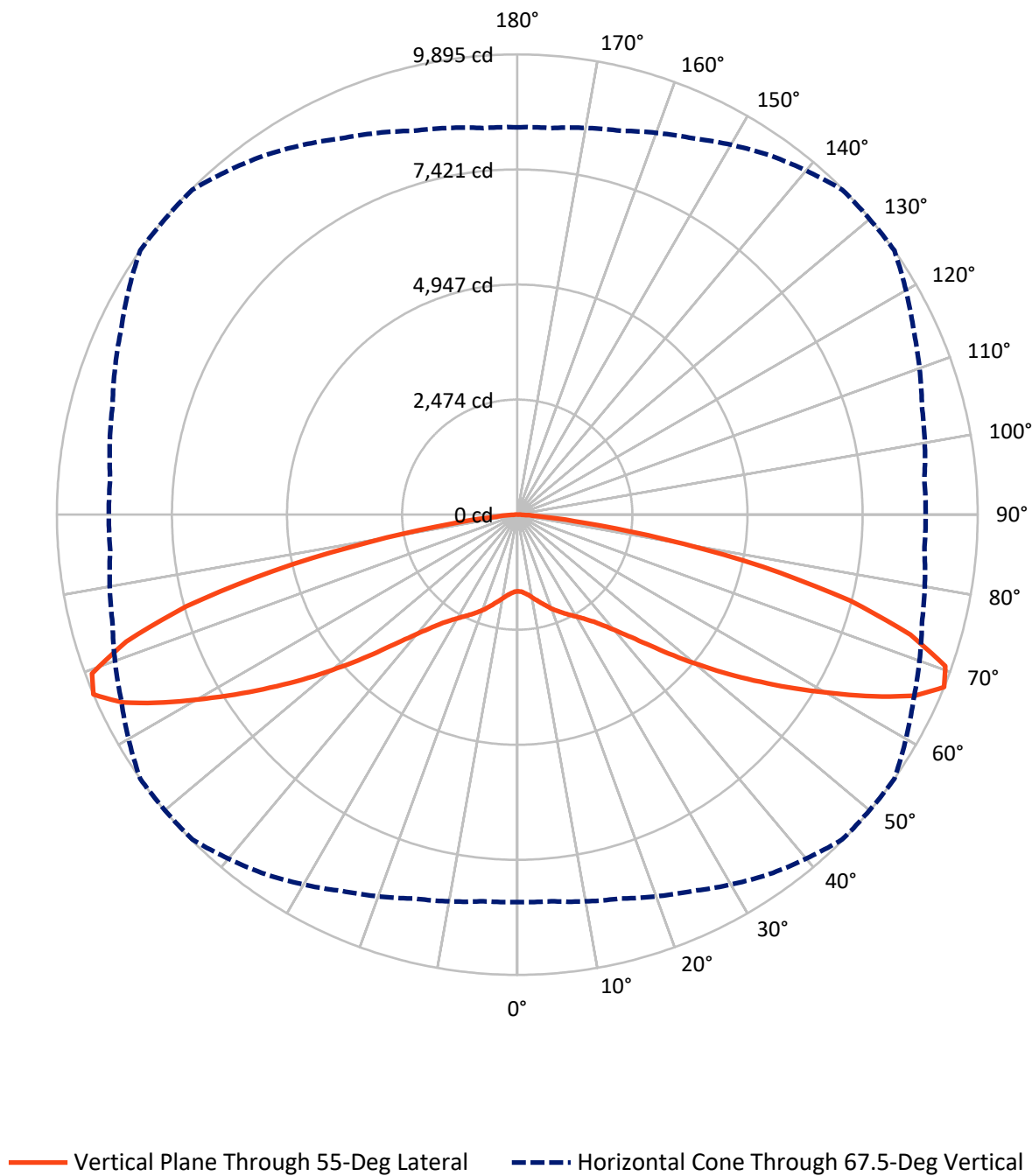


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14208.7	0.0	14208.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14208.7	0.0	14208.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28417.4	0.0	28417.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	0.6
10°-20°	565.4	2.0
20°-30°	1087.2	3.8
30°-40°	1781.0	6.3
40°-50°	3096.1	10.9
50°-60°	5526.3	19.4
60°-70°	8532.4	30.0
70°-80°	6907.0	24.3
80°-90°	756.6	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°	28417.4	100.0
0°-180°	28417.4	100.0

Coefficient of Utilization



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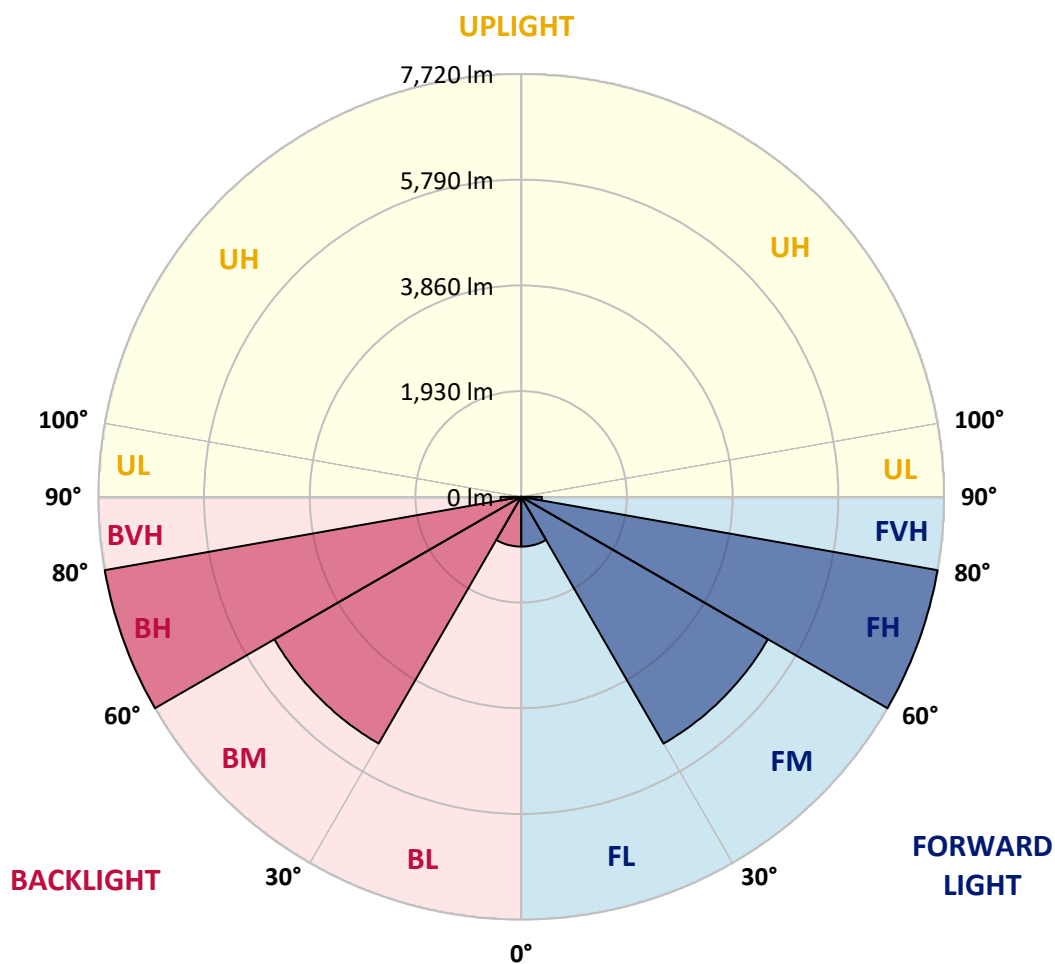
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.0	3.2			
FM	(30°-60°)	5201.7	18.3			
FH	(60°-80°)	7719.7	27.2			G4/12000
FVH	(80°-90°)	378.3	1.3			G3/500
BL	(0°-30°)	909.0	3.2	B2/1000		
BM	(30°-60°)	5201.7	18.3	B4/8500		
BH	(60°-80°)	7719.7	27.2	B5		G4/12000
BVH	(80°-90°)	378.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8
2.5°	1659.6	1661.4	1659.6	1659.6	1657.8	1657.8	1657.8	1659.6	1659.6	1663.2	1661.4
5°	1693.8	1695.6	1692.0	1695.6	1695.6	1697.4	1695.6	1693.8	1695.6	1697.4	1692.0
7.5°	1742.4	1746.0	1744.2	1746.0	1747.8	1746.0	1746.0	1744.2	1747.8	1746.0	1742.4
10°	1805.4	1809.0	1807.2	1810.8	1812.6	1814.4	1814.4	1810.8	1809.0	1809.0	1807.2
12.5°	1881.0	1881.0	1881.0	1886.4	1890.0	1893.6	1891.8	1888.2	1882.8	1884.6	1877.4
15°	1963.8	1967.4	1967.4	1969.2	1978.2	1980.0	1978.2	1972.8	1971.0	1967.4	1963.8
17.5°	2055.6	2057.4	2059.2	2061.0	2071.8	2077.2	2070.0	2061.0	2061.0	2059.2	2059.2
20°	2151.0	2149.2	2152.8	2156.4	2163.6	2169.0	2167.2	2158.2	2151.0	2156.4	2154.6
22.5°	2239.2	2241.0	2242.8	2248.2	2260.8	2262.6	2257.2	2250.0	2241.0	2242.8	2242.8
25°	2322.0	2323.8	2327.4	2334.6	2349.0	2358.0	2350.8	2340.0	2327.4	2327.4	2329.2
27.5°	2406.6	2408.4	2410.2	2422.8	2440.8	2451.6	2446.2	2428.2	2413.8	2410.2	2404.8
30°	2500.2	2500.2	2503.8	2520.0	2543.4	2556.0	2548.8	2527.2	2505.6	2502.0	2502.0
32.5°	2619.0	2611.8	2617.2	2638.8	2664.0	2678.4	2673.0	2647.8	2620.8	2615.4	2615.4
35°	2761.2	2757.6	2761.2	2786.4	2817.0	2838.6	2826.0	2802.6	2773.8	2768.4	2764.8
37.5°	2930.4	2932.2	2943.0	2971.8	3013.2	3040.2	3027.6	2989.8	2955.6	2955.6	2955.6
40°	3144.6	3148.2	3169.8	3213.0	3272.4	3295.8	3281.4	3234.6	3195.0	3180.6	3184.2
42.5°	3436.2	3434.4	3468.6	3522.6	3592.8	3627.0	3603.6	3553.2	3495.6	3472.2	3474.0
45°	3780.0	3805.2	3841.2	3909.6	3997.8	4057.2	4015.8	3960.0	3873.6	3839.4	3837.6
47.5°	4195.8	4222.8	4267.8	4381.2	4487.4	4559.4	4527.0	4435.2	4311.0	4262.4	4244.4
50°	4669.2	4703.4	4761.0	4906.8	5058.0	5139.0	5081.4	4960.8	4827.6	4753.8	4735.8
52.5°	5202.0	5212.8	5299.2	5475.6	5662.8	5761.8	5697.0	5553.0	5382.0	5313.6	5263.2
55°	5792.4	5801.4	5900.4	6100.2	6312.6	6429.6	6346.8	6165.0	6006.6	5887.8	5898.6
57.5°	6339.6	6366.6	6512.4	6746.4	6996.6	7138.8	7048.8	6856.2	6690.6	6555.6	6571.8
60°	6924.6	6953.4	7106.4	7385.4	7723.8	7912.8	7795.8	7588.8	7417.8	7290.0	7273.8
62.5°	7545.6	7561.8	7729.2	7979.4	8411.4	8715.6	8604.0	8375.4	8175.6	8049.6	8037.0
65°	8119.8	8141.4	8283.6	8557.2	9001.8	9446.4	9383.4	9066.6	8796.6	8614.8	8589.6
67.5°	8328.6	8343.0	8542.8	8926.2	9437.4	9876.6	9894.6	9396.0	9003.6	8782.2	8776.8
70°	8083.8	8094.6	8350.2	8805.6	9457.2	9822.6	9757.8	9257.4	8775.0	8503.2	8476.2
72.5°	7534.8	7536.6	7770.6	8157.6	8811.0	9109.8	8834.4	8559.0	8060.4	7857.0	7803.0
75°	6535.8	6537.6	6699.6	6957.0	7423.2	7698.6	7385.4	7133.4	6840.0	6719.4	6656.4
77.5°	4494.6	4521.6	4689.0	4986.0	5497.2	5801.4	5391.0	4933.8	4755.6	4653.0	4591.8
80°	2163.6	2205.0	2397.6	2691.0	3225.6	3711.6	3205.8	2642.4	2295.0	2012.4	2062.8
82.5°	577.8	585.0	750.6	1078.2	1503.0	1764.0	1432.8	1002.6	631.8	424.8	388.8
85°	153.0	162.0	226.8	311.4	473.4	603.0	460.8	293.4	223.2	165.6	151.2
87.5°	41.4	48.6	79.2	95.4	118.8	95.4	118.8	102.6	99.0	52.2	37.8
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)