

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: P157612

Luminaire Tested: **VST-E09-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157612
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-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (189) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29159.3 lumens
Efficiency: N/A
Efficacy: 129.2 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

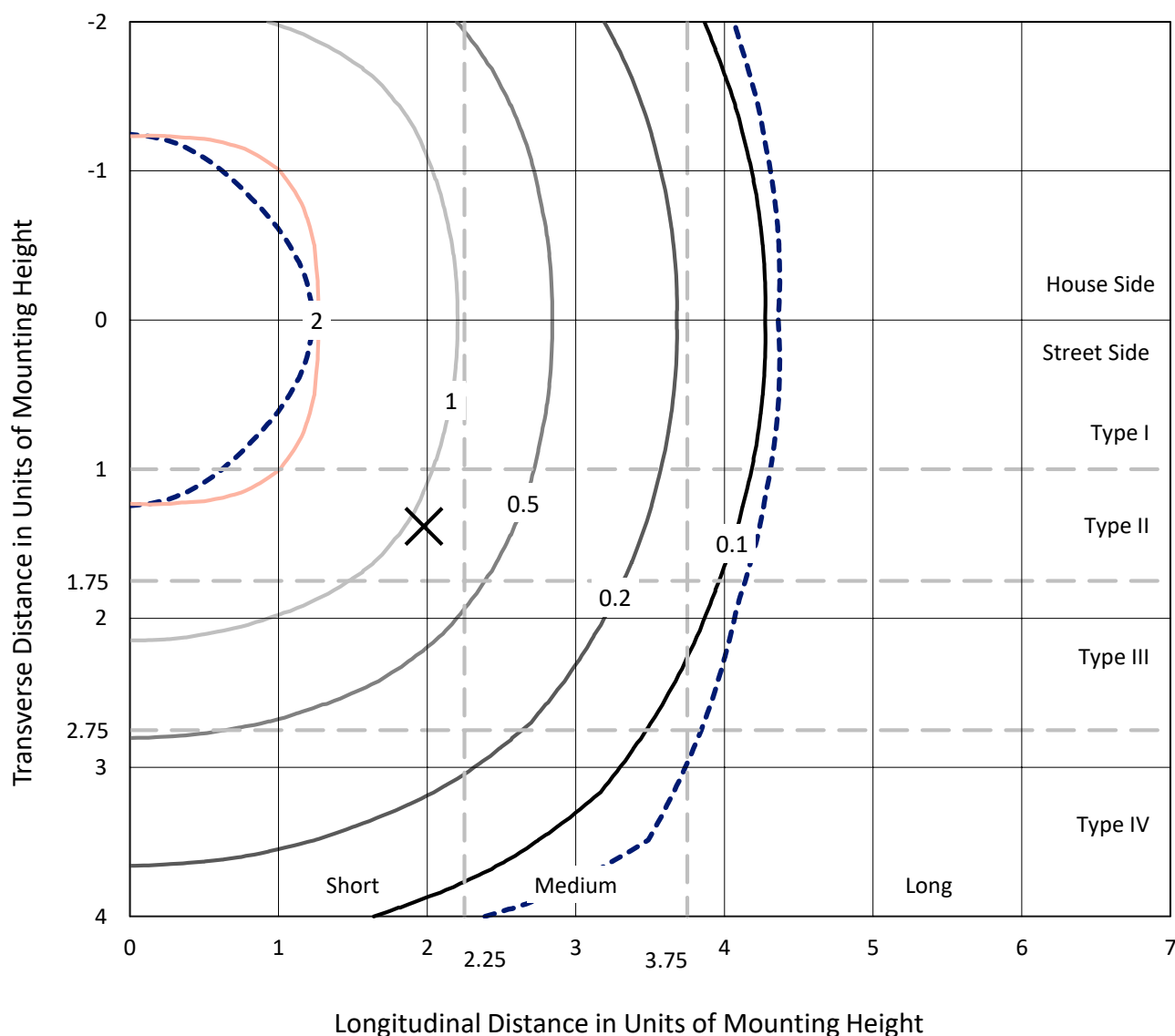


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

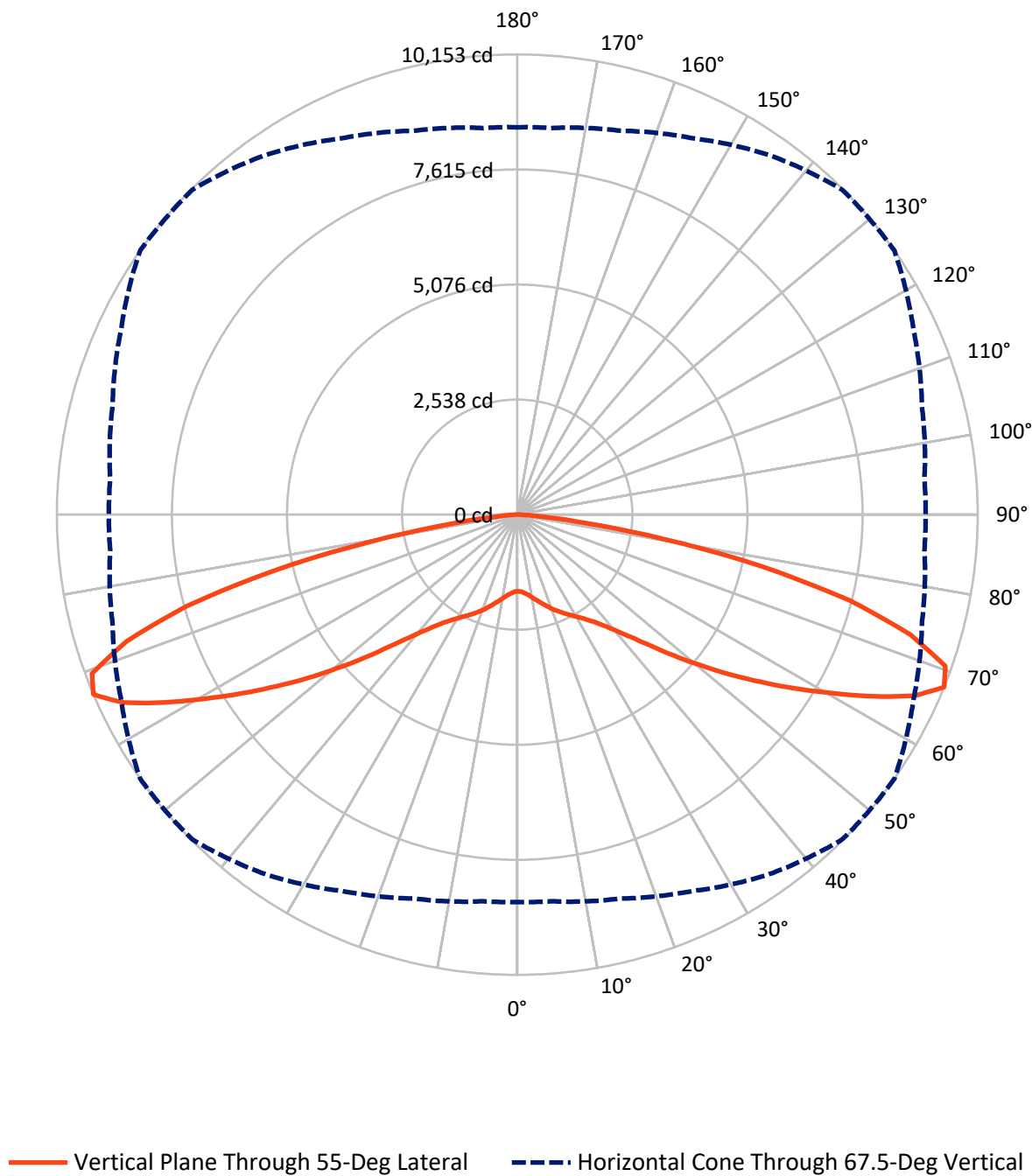


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14579.6	0.0	14579.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14579.6	0.0	14579.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29159.3	0.0	29159.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	0.6
10°-20°	580.2	2.0
20°-30°	1115.6	3.8
30°-40°	1827.5	6.3
40°-50°	3176.9	10.9
50°-60°	5670.6	19.4
60°-70°	8755.1	30.0
70°-80°	7087.3	24.3
80°-90°	776.3	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°	29159.3	100.0
0°-180°	29159.3	100.0

Coefficient of Utilization



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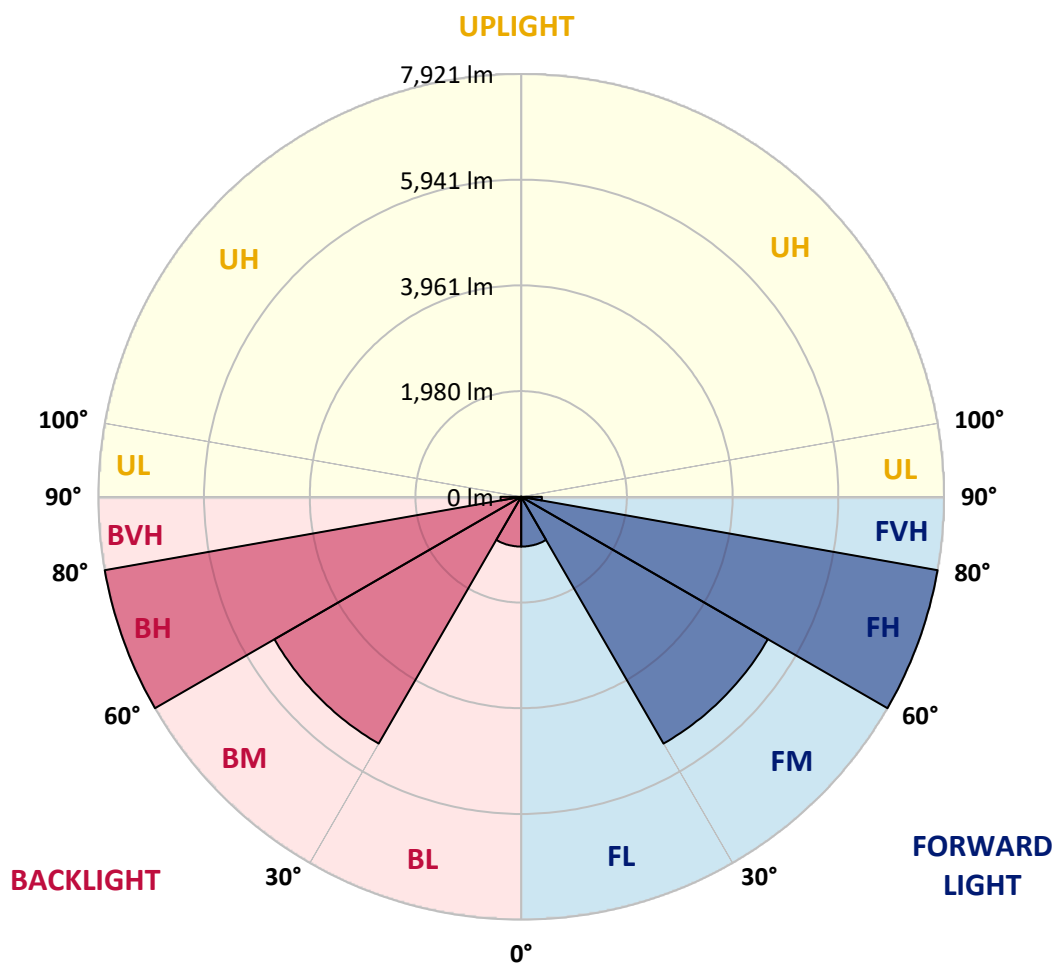
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.8	3.2			
FM	(30°-60°)	5337.5	18.3			
FH	(60°-80°)	7921.2	27.2			G4/12000
FVH	(80°-90°)	388.2	1.3			G3/500
BL	(0°-30°)	932.8	3.2	B2/1000		
BM	(30°-60°)	5337.5	18.3	B4/8500		
BH	(60°-80°)	7921.2	27.2	B5		G4/12000
BVH	(80°-90°)	388.2	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°	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8
2.5°	1702.9	1704.8	1702.9	1702.9	1701.1	1701.1	1701.1	1702.9	1702.9	1706.6	1704.8
5°	1738.0	1739.9	1736.2	1739.9	1739.9	1741.7	1739.9	1738.0	1739.9	1741.7	1736.2
7.5°	1787.9	1791.6	1789.7	1791.6	1793.4	1791.6	1791.6	1789.7	1793.4	1791.6	1787.9
10°	1852.5	1856.2	1854.4	1858.1	1859.9	1861.8	1861.8	1858.1	1856.2	1856.2	1854.4
12.5°	1930.1	1930.1	1930.1	1935.6	1939.3	1943.0	1941.2	1937.5	1932.0	1933.8	1926.4
15°	2015.1	2018.8	2018.8	2020.6	2029.8	2031.7	2029.8	2024.3	2022.5	2018.8	2015.1
17.5°	2109.3	2111.1	2113.0	2114.8	2125.9	2131.4	2124.0	2114.8	2114.8	2113.0	2113.0
20°	2207.2	2205.3	2209.0	2212.7	2220.1	2225.6	2223.8	2214.5	2207.2	2212.7	2210.8
22.5°	2297.7	2299.5	2301.3	2306.9	2319.8	2321.7	2316.1	2308.7	2299.5	2301.3	2301.3
25°	2382.6	2384.5	2388.2	2395.5	2410.3	2419.6	2412.2	2401.1	2388.2	2388.2	2390.0
27.5°	2469.4	2471.3	2473.1	2486.0	2504.5	2515.6	2510.1	2491.6	2476.8	2473.1	2467.6
30°	2565.5	2565.5	2569.2	2585.8	2609.8	2622.7	2615.3	2593.2	2571.0	2567.3	2567.3
32.5°	2687.4	2680.0	2685.5	2707.7	2733.5	2748.3	2742.8	2716.9	2689.2	2683.7	2683.7
35°	2833.3	2829.6	2833.3	2859.1	2890.5	2912.7	2899.8	2875.8	2846.2	2840.7	2837.0
37.5°	3006.9	3008.7	3019.8	3049.4	3091.9	3119.6	3106.6	3067.9	3032.8	3032.8	3032.8
40°	3226.7	3230.4	3252.5	3296.9	3357.8	3381.8	3367.1	3319.0	3278.4	3263.6	3267.3
42.5°	3525.9	3524.1	3559.1	3614.6	3686.6	3721.7	3697.7	3646.0	3586.9	3562.8	3564.7
45°	3878.7	3904.5	3941.5	4011.7	4102.2	4163.1	4120.6	4063.4	3974.7	3939.6	3937.8
47.5°	4305.3	4333.0	4379.2	4495.6	4604.5	4678.4	4645.2	4551.0	4423.5	4373.7	4355.2
50°	4791.1	4826.2	4885.3	5034.9	5190.0	5273.2	5214.1	5090.3	4953.6	4877.9	4859.4
52.5°	5337.8	5348.9	5437.5	5618.5	5810.6	5912.2	5845.7	5698.0	5522.5	5452.3	5400.6
55°	5943.6	5952.8	6054.4	6259.4	6477.4	6597.4	6512.5	6325.9	6163.4	6041.5	6052.6
57.5°	6505.1	6532.8	6682.4	6922.5	7179.2	7325.2	7232.8	7035.2	6865.3	6726.7	6743.4
60°	7105.4	7134.9	7291.9	7578.2	7925.4	8119.4	7999.3	7786.9	7611.4	7480.3	7463.7
62.5°	7742.6	7759.2	7931.0	8187.7	8631.0	8943.1	8828.6	8594.0	8389.0	8259.7	8246.8
65°	8331.8	8353.9	8499.8	8780.6	9236.8	9693.0	9628.4	9303.3	9026.2	8839.7	8813.8
67.5°	8546.0	8560.8	8765.8	9159.2	9683.8	10134.4	10152.9	9641.3	9238.6	9011.5	9005.9
70°	8294.8	8305.9	8568.2	9035.5	9704.1	10079.0	10012.5	9499.1	9004.1	8725.2	8697.5
72.5°	7731.5	7733.3	7973.5	8370.6	9041.0	9347.6	9065.0	8782.4	8270.8	8062.1	8006.7
75°	6706.4	6708.3	6874.5	7138.6	7617.0	7899.6	7578.2	7319.6	7018.6	6894.8	6830.2
77.5°	4611.9	4639.6	4811.4	5116.2	5640.7	5952.8	5531.7	5062.6	4879.7	4774.5	4711.7
80°	2220.1	2262.6	2460.2	2761.2	3309.8	3808.5	3289.5	2711.4	2354.9	2064.9	2116.7
82.5°	592.9	600.3	770.2	1106.3	1542.2	1810.0	1470.2	1028.8	648.3	435.9	398.9
85°	157.0	166.2	232.7	319.5	485.8	618.7	472.8	301.1	229.0	169.9	155.1
87.5°	42.5	49.9	81.3	97.9	121.9	97.9	121.9	105.3	101.6	53.6	38.8
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)