

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: P157621

Luminaire Tested: **VST-E10-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157621
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-E10-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (210) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32399.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.7
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



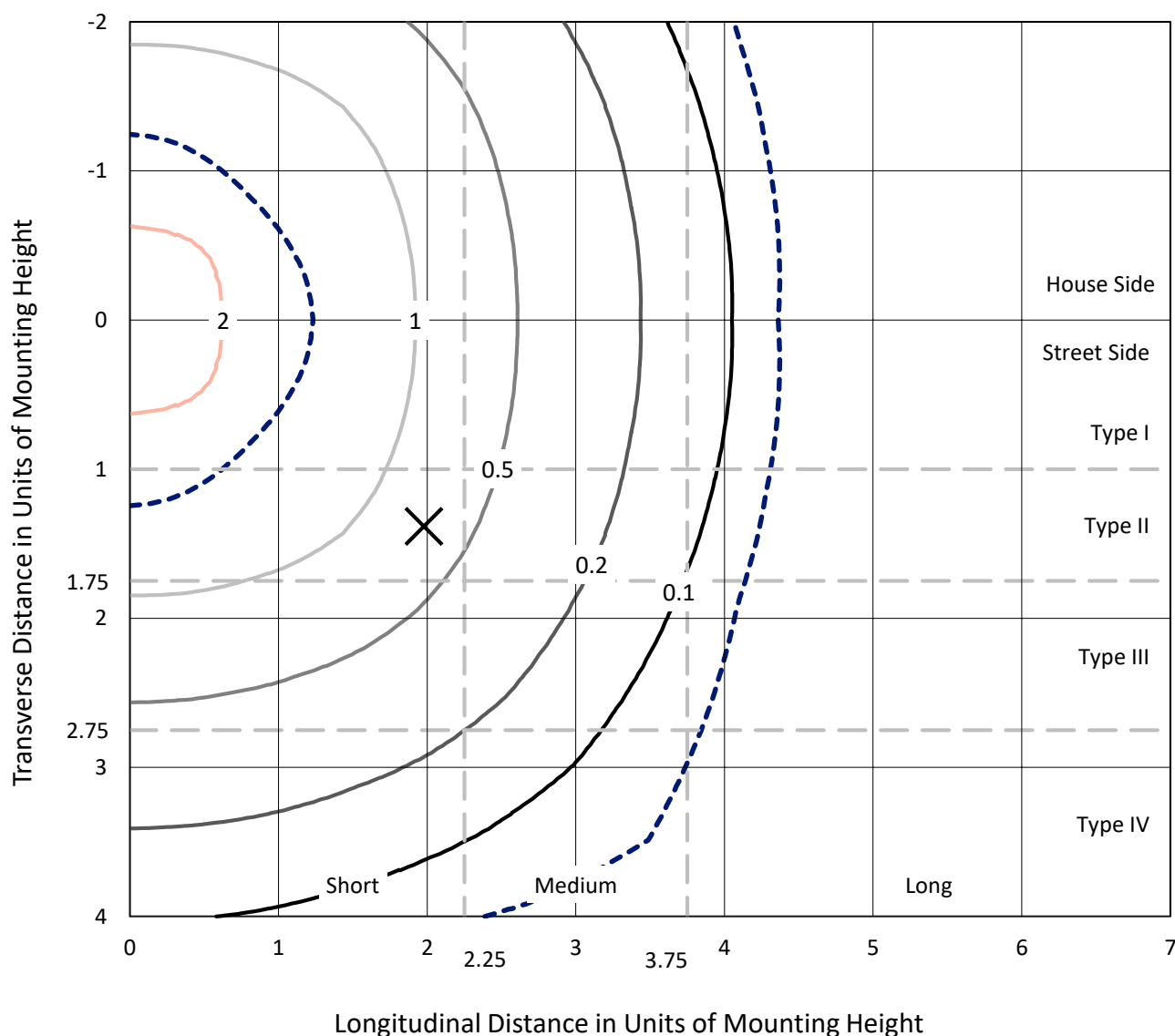
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

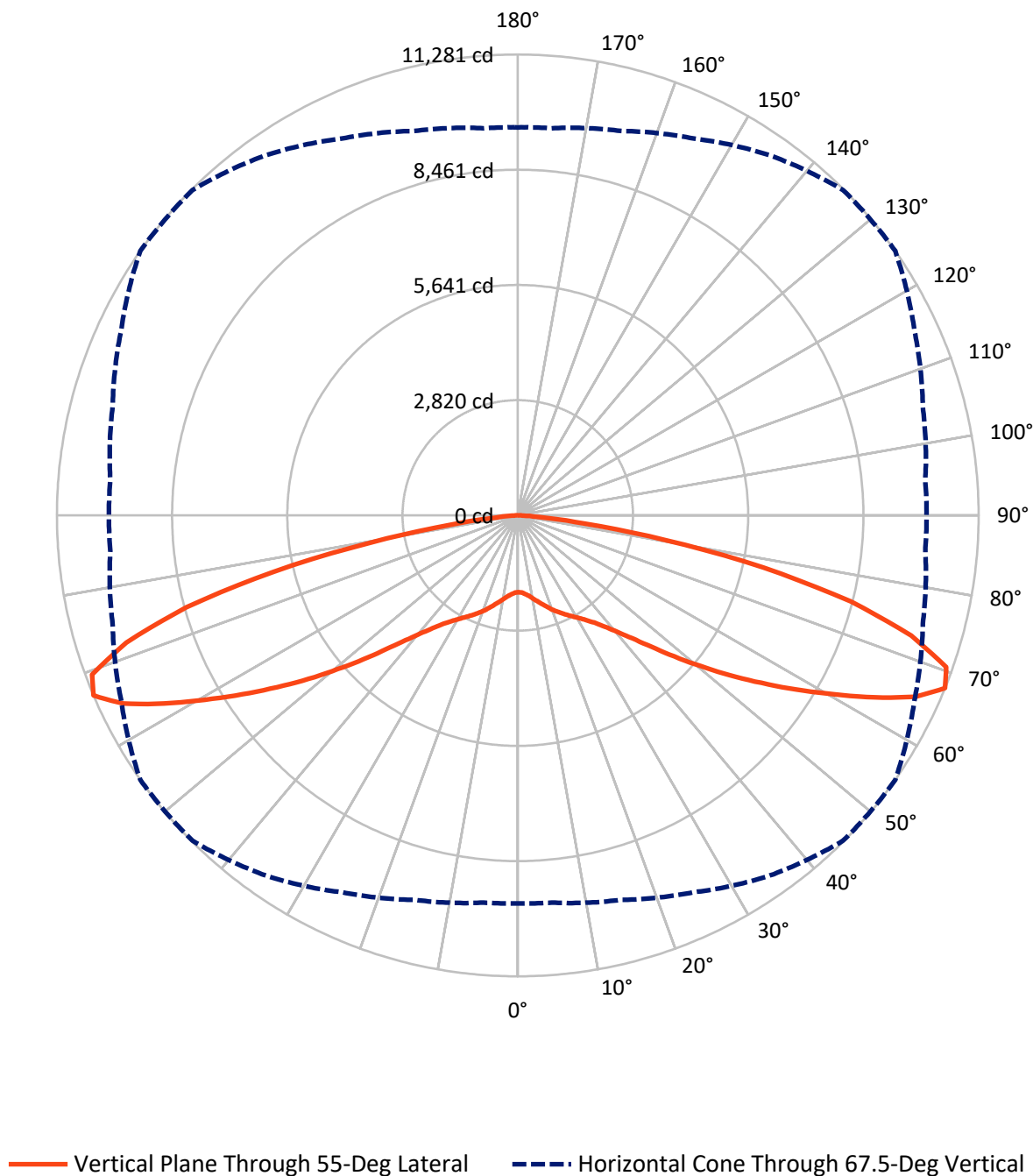


Based on 30 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16199.6	0.0	16199.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16199.6	0.0	16199.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32399.2	0.0	32399.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	0.6
10°-20°	644.6	2.0
20°-30°	1239.5	3.8
30°-40°	2030.5	6.3
40°-50°	3529.9	10.9
50°-60°	6300.7	19.4
60°-70°	9727.9	30.0
70°-80°	7874.7	24.3
80°-90°	862.6	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°	32399.2	100.0
0°-180°	32399.2	100.0

Coefficient of Utilization



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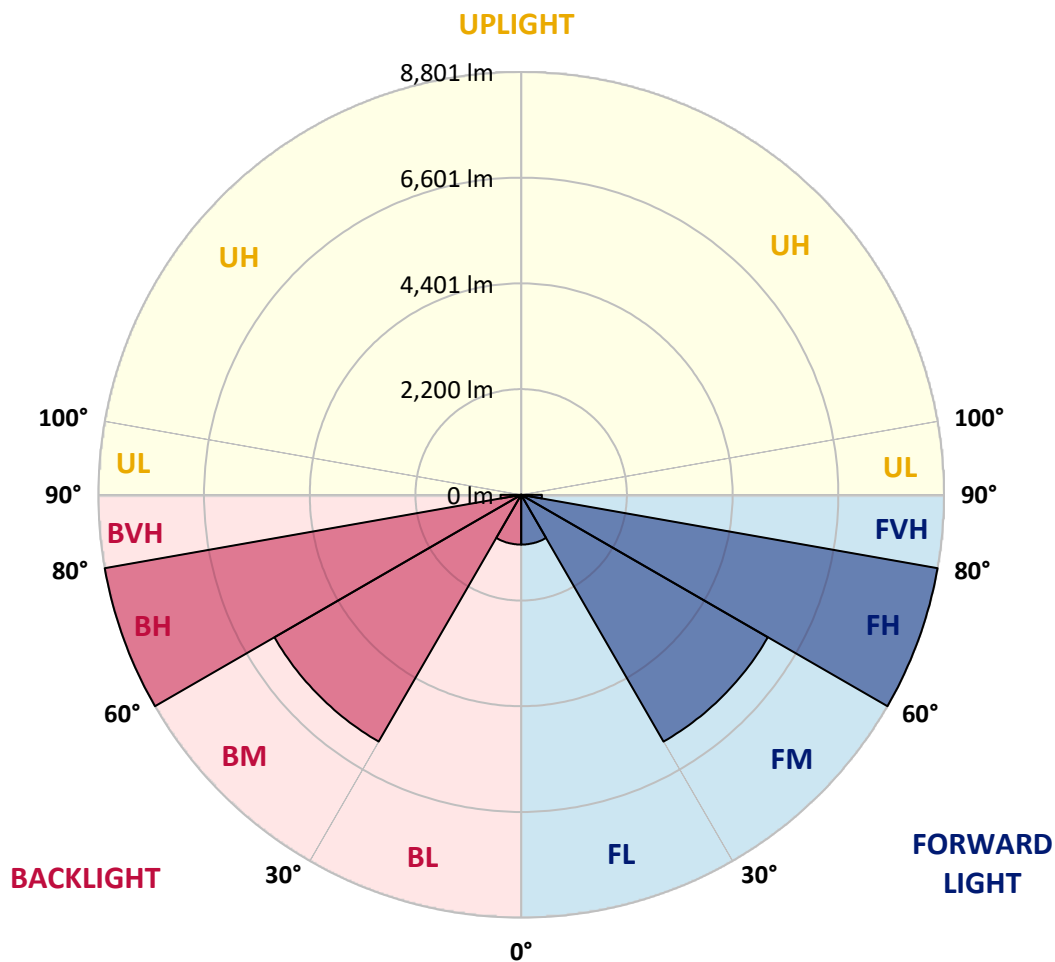
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.4	3.2			
FM	(30°-60°)	5930.6	18.3			
FH	(60°-80°)	8801.3	27.2			G4/12000
FVH	(80°-90°)	431.3	1.3			G3/500
BL	(0°-30°)	1036.4	3.2	B3/2500		
BM	(30°-60°)	5930.6	18.3	B4/8500		
BH	(60°-80°)	8801.3	27.2	B5		G4/12000
BVH	(80°-90°)	431.3	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°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1892.1	1894.2	1892.1	1892.1	1890.1	1890.1	1890.1	1892.1	1892.1	1896.2	1894.2
5°	1931.1	1933.2	1929.1	1933.2	1933.2	1935.2	1933.2	1931.1	1933.2	1935.2	1929.1
7.5°	1986.5	1990.6	1988.6	1990.6	1992.7	1990.6	1990.6	1988.6	1992.7	1990.6	1986.5
10°	2058.4	2062.5	2060.4	2064.5	2066.6	2068.6	2068.6	2064.5	2062.5	2062.5	2060.4
12.5°	2144.6	2144.6	2144.6	2150.7	2154.8	2158.9	2156.9	2152.8	2146.6	2148.7	2140.5
15°	2239.0	2243.1	2243.1	2245.1	2255.4	2257.4	2255.4	2249.2	2247.2	2243.1	2239.0
17.5°	2343.6	2345.7	2347.7	2349.8	2362.1	2368.3	2360.0	2349.8	2349.8	2347.7	2347.7
20°	2452.4	2450.3	2454.4	2458.5	2466.8	2472.9	2470.9	2460.6	2452.4	2458.5	2456.5
22.5°	2553.0	2555.0	2557.1	2563.2	2577.6	2579.6	2573.5	2565.3	2555.0	2557.1	2557.1
25°	2647.4	2649.4	2653.5	2661.7	2678.1	2688.4	2680.2	2667.9	2653.5	2653.5	2655.6
27.5°	2743.8	2745.9	2747.9	2762.3	2782.8	2795.1	2789.0	2768.4	2752.0	2747.9	2741.8
30°	2850.5	2850.5	2854.6	2873.1	2899.8	2914.1	2905.9	2881.3	2856.7	2852.6	2852.6
32.5°	2986.0	2977.8	2983.9	3008.5	3037.3	3053.7	3047.5	3018.8	2988.0	2981.9	2981.9
35°	3148.1	3144.0	3148.1	3176.8	3211.7	3236.3	3222.0	3195.3	3162.5	3156.3	3152.2
37.5°	3341.0	3343.1	3355.4	3388.2	3435.4	3466.2	3451.8	3408.7	3369.7	3369.7	3369.7
40°	3585.2	3589.3	3613.9	3663.2	3730.9	3757.6	3741.2	3687.8	3642.7	3626.3	3630.4
42.5°	3917.7	3915.6	3954.6	4016.2	4096.2	4135.2	4108.5	4051.1	3985.4	3958.7	3960.8
45°	4309.6	4338.4	4379.4	4457.4	4558.0	4625.7	4578.5	4514.9	4416.4	4377.4	4375.3
47.5°	4783.7	4814.5	4865.8	4995.1	5116.2	5198.3	5161.3	5056.6	4915.0	4859.6	4839.1
50°	5323.4	5362.4	5428.1	5594.3	5766.7	5859.1	5793.4	5655.9	5504.0	5419.9	5399.4
52.5°	5930.9	5943.2	6041.7	6242.8	6456.3	6569.1	6495.2	6331.1	6136.1	6058.1	6000.7
55°	6604.0	6614.3	6727.1	6954.9	7197.1	7330.5	7236.1	7028.8	6848.2	6712.8	6725.1
57.5°	7227.9	7258.7	7424.9	7691.7	7976.9	8139.1	8036.5	7816.9	7628.1	7474.2	7492.6
60°	7894.9	7927.7	8102.1	8420.2	8806.0	9021.5	8888.1	8652.1	8457.2	8311.5	8293.0
62.5°	8602.9	8621.3	8812.2	9097.5	9590.0	9936.8	9809.6	9548.9	9321.1	9177.5	9163.1
65°	9257.5	9282.1	9444.3	9756.2	10263.1	10770.0	10698.2	10337.0	10029.2	9821.9	9793.2
67.5°	9495.6	9512.0	9739.8	10176.9	10759.7	11260.5	11281.0	10712.5	10265.2	10012.7	10006.6
70°	9216.5	9228.8	9520.2	10039.4	10782.3	11198.9	11125.0	10554.5	10004.5	9694.6	9663.9
72.5°	8590.6	8592.6	8859.4	9300.6	10045.6	10386.2	10072.3	9758.3	9189.8	8957.9	8896.3
75°	7451.6	7453.6	7638.3	7931.8	8463.3	8777.3	8420.2	8132.9	7798.4	7660.9	7589.1
77.5°	5124.4	5155.2	5346.0	5684.6	6267.5	6614.3	6146.4	5625.1	5421.9	5305.0	5235.2
80°	2466.8	2514.0	2733.5	3068.1	3677.6	4231.7	3655.0	3012.6	2616.6	2294.4	2351.8
82.5°	658.8	667.0	855.8	1229.3	1713.6	2011.2	1633.6	1143.1	720.3	484.3	443.3
85°	174.4	184.7	258.6	355.0	539.7	687.5	525.4	334.5	254.5	188.8	172.4
87.5°	47.2	55.4	90.3	108.8	135.4	108.8	135.4	117.0	112.9	59.5	43.1
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)