

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: P157638

Luminaire Tested: **VST-E12-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157638
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-E12-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (252) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31978.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 291.7
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



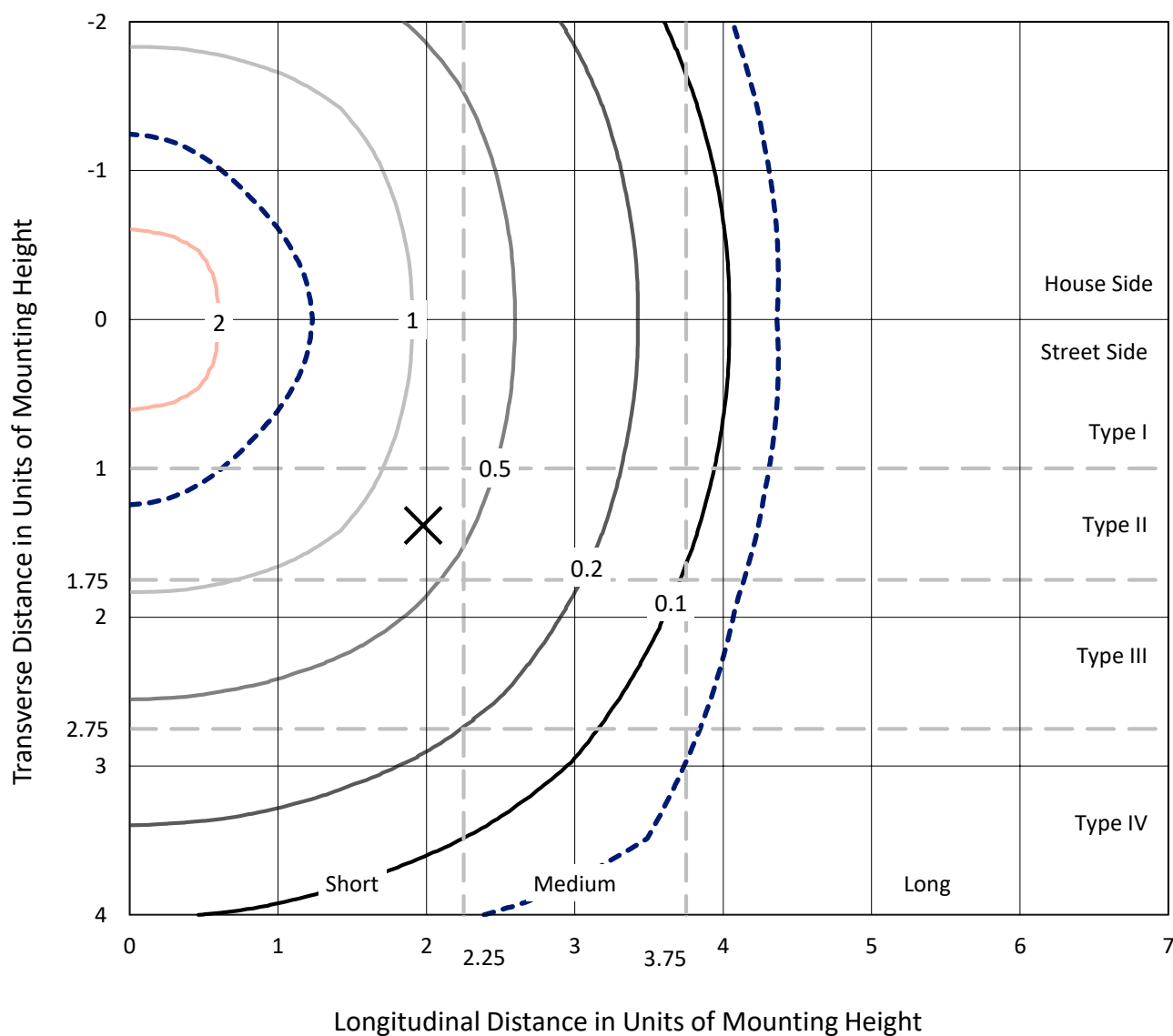
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

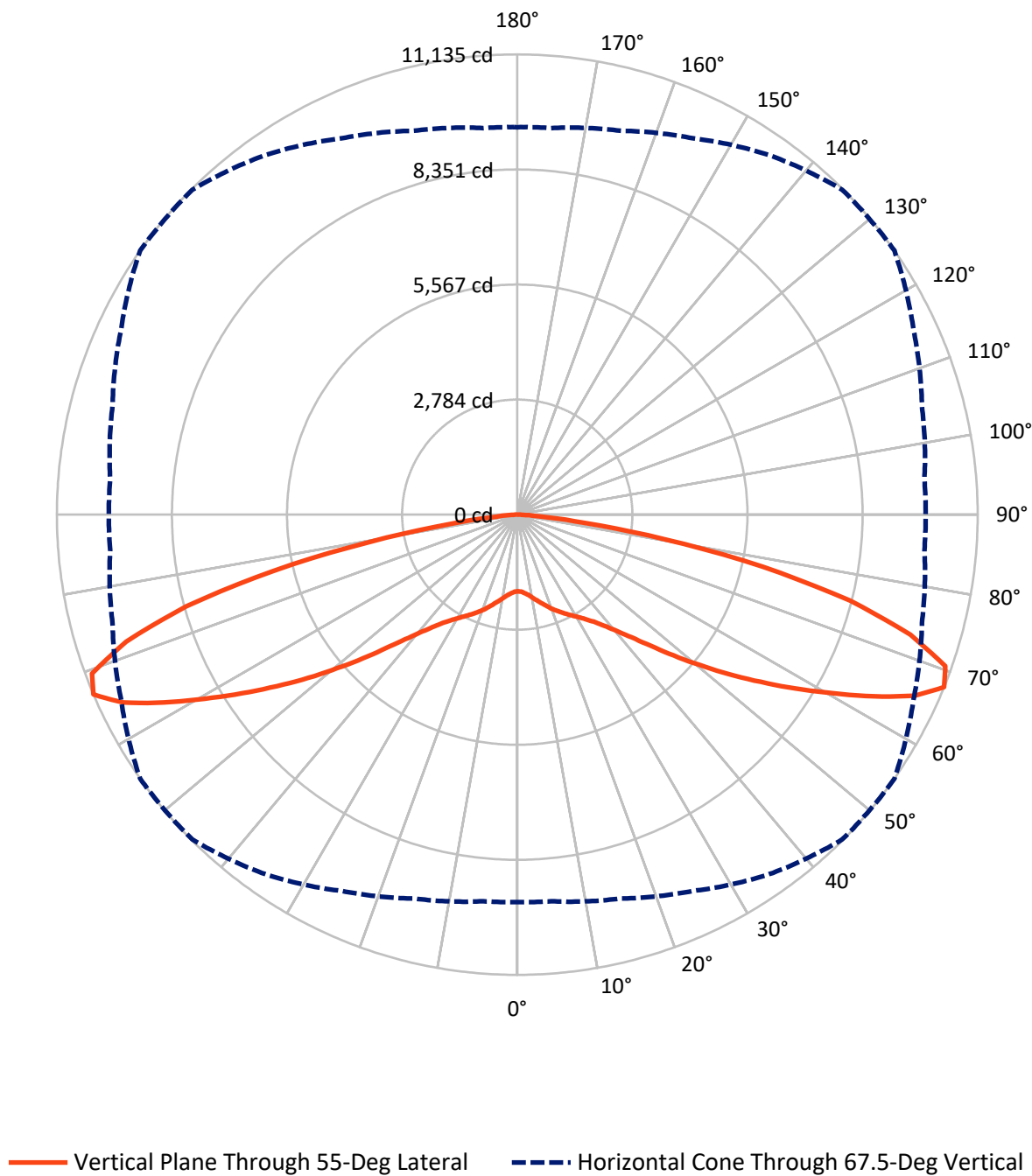


Based on 30 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15989.4	0.0	15989.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15989.4	0.0	15989.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31978.7	0.0	31978.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	0.6
10°-20°	636.3	2.0
20°-30°	1223.5	3.8
30°-40°	2004.2	6.3
40°-50°	3484.1	10.9
50°-60°	6218.9	19.4
60°-70°	9601.6	30.0
70°-80°	7772.5	24.3
80°-90°	851.4	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°	31978.7	100.0
0°-180°	31978.7	100.0

Coefficient of Utilization



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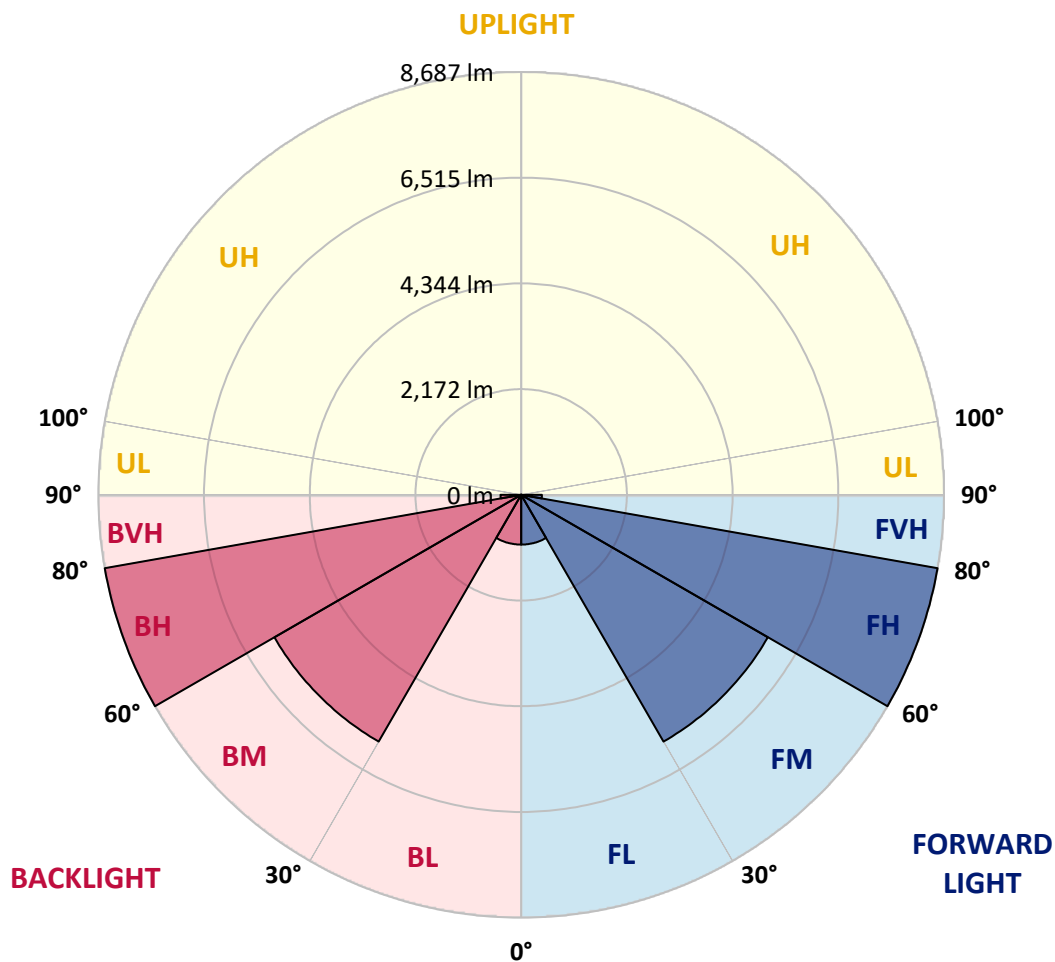
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1023.0	3.2			
FM	(30°-60°)	5853.6	18.3			
FH	(60°-80°)	8687.1	27.2			G4/12000
FVH	(80°-90°)	425.7	1.3			G3/500
BL	(0°-30°)	1023.0	3.2	B3/2500		
BM	(30°-60°)	5853.6	18.3	B4/8500		
BH	(60°-80°)	8687.1	27.2	B5		G4/12000
BVH	(80°-90°)	425.7	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°	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4
2.5°	1867.6	1869.6	1867.6	1867.6	1865.6	1865.6	1865.6	1867.6	1867.6	1871.6	1869.6
5°	1906.1	1908.1	1904.0	1908.1	1908.1	1910.1	1908.1	1906.1	1908.1	1910.1	1904.0
7.5°	1960.8	1964.8	1962.8	1964.8	1966.8	1964.8	1964.8	1962.8	1966.8	1964.8	1960.8
10°	2031.7	2035.7	2033.7	2037.7	2039.8	2041.8	2041.8	2037.7	2035.7	2035.7	2033.7
12.5°	2116.7	2116.7	2116.7	2122.8	2126.9	2130.9	2128.9	2124.8	2118.8	2120.8	2112.7
15°	2209.9	2214.0	2214.0	2216.0	2226.1	2228.1	2226.1	2220.0	2218.0	2214.0	2209.9
17.5°	2313.2	2315.2	2317.3	2319.3	2331.4	2337.5	2329.4	2319.3	2319.3	2317.3	2317.3
20°	2420.6	2418.5	2422.6	2426.6	2434.7	2440.8	2438.8	2428.7	2420.6	2426.6	2424.6
22.5°	2519.8	2521.8	2523.9	2529.9	2544.1	2546.2	2540.1	2532.0	2521.8	2523.9	2523.9
25°	2613.0	2615.0	2619.1	2627.2	2643.4	2653.5	2645.4	2633.3	2619.1	2619.1	2621.1
27.5°	2708.2	2710.2	2712.2	2726.4	2746.7	2758.8	2752.8	2732.5	2716.3	2712.2	2706.2
30°	2813.5	2813.5	2817.6	2835.8	2862.1	2876.3	2868.2	2843.9	2819.6	2815.6	2815.6
32.5°	2947.2	2939.1	2945.2	2969.5	2997.9	3014.1	3008.0	2979.6	2949.2	2943.2	2943.2
35°	3107.2	3103.2	3107.2	3135.6	3170.0	3194.3	3180.2	3153.8	3121.4	3115.3	3111.3
37.5°	3297.6	3299.7	3311.8	3344.2	3390.8	3421.2	3407.0	3364.5	3326.0	3326.0	3326.0
40°	3538.7	3542.7	3567.0	3615.7	3682.5	3708.8	3692.6	3640.0	3595.4	3579.2	3583.2
42.5°	3866.8	3864.8	3903.3	3964.1	4043.1	4081.5	4055.2	3998.5	3933.7	3907.3	3909.4
45°	4253.7	4282.1	4322.6	4399.6	4498.8	4565.7	4519.1	4456.3	4359.0	4320.6	4318.5
47.5°	4721.6	4752.0	4802.6	4930.3	5049.8	5130.8	5094.3	4991.0	4851.3	4796.6	4776.3
50°	5254.3	5292.8	5357.7	5521.7	5691.9	5783.0	5718.2	5582.5	5432.6	5349.6	5329.3
52.5°	5853.9	5866.1	5963.3	6161.8	6372.5	6483.9	6411.0	6248.9	6056.5	5979.5	5922.8
55°	6518.3	6528.4	6639.8	6864.7	7103.7	7235.4	7142.2	6937.6	6759.4	6625.7	6637.8
57.5°	7134.1	7164.5	7328.5	7591.9	7873.4	8033.4	7932.2	7715.4	7529.1	7377.2	7395.4
60°	7792.4	7824.8	7997.0	8310.9	8691.8	8904.4	8772.8	8539.8	8347.4	8203.6	8185.4
62.5°	8491.2	8509.5	8697.8	8979.4	9465.5	9807.8	9682.3	9425.0	9200.2	9058.4	9044.2
65°	9137.4	9161.7	9321.7	9629.6	10129.9	10630.2	10559.3	10202.8	9899.0	9694.4	9666.1
67.5°	9372.4	9388.6	9613.4	10044.8	10620.1	11114.3	11134.6	10573.5	10131.9	9882.8	9876.7
70°	9096.9	9109.0	9396.7	9909.1	10642.4	11053.6	10980.7	10417.5	9874.7	9568.8	9538.4
72.5°	8479.1	8481.1	8744.4	9179.9	9915.2	10251.5	9941.5	9631.6	9070.5	8841.6	8780.9
75°	7354.9	7356.9	7539.2	7828.9	8353.5	8663.4	8310.9	8027.4	7697.2	7561.5	7490.6
77.5°	5057.9	5088.3	5276.6	5610.9	6186.1	6528.4	6066.6	5552.1	5351.6	5236.1	5167.3
80°	2434.7	2481.3	2698.1	3028.2	3629.8	4176.7	3607.6	2973.5	2582.6	2264.6	2321.3
82.5°	650.2	658.3	844.7	1213.3	1691.4	1985.1	1612.4	1128.2	711.0	478.0	437.5
85°	172.2	182.3	255.2	350.4	532.7	678.6	518.5	330.2	251.2	186.4	170.1
87.5°	46.6	54.7	89.1	107.4	133.7	107.4	133.7	115.5	111.4	58.7	42.5
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)