

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: P157645

Luminaire Tested: **VST-F12-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157645
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-F12-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31279.1 lumens
Efficiency: N/A
Efficacy: 102.0 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): 306.6
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



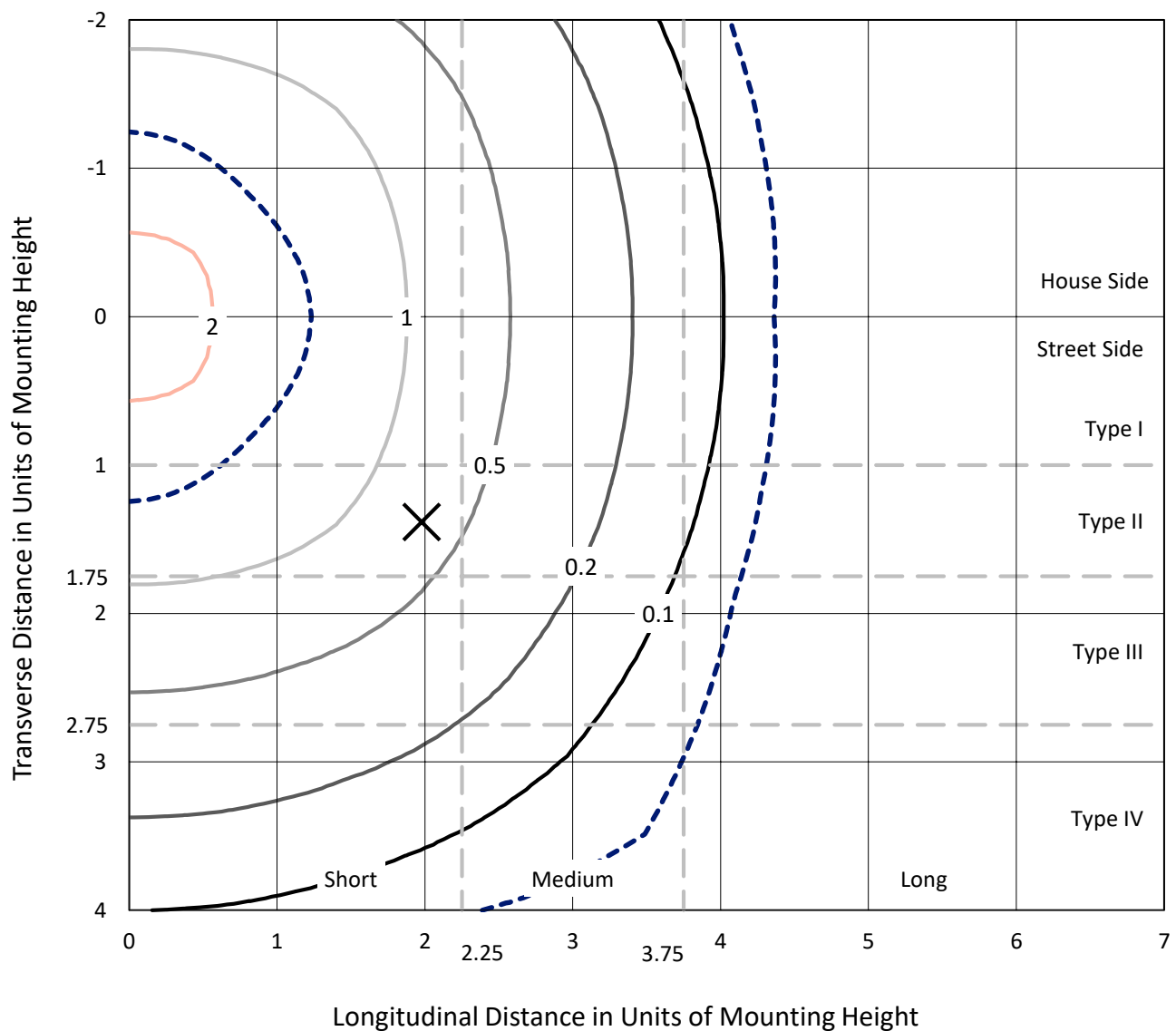
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



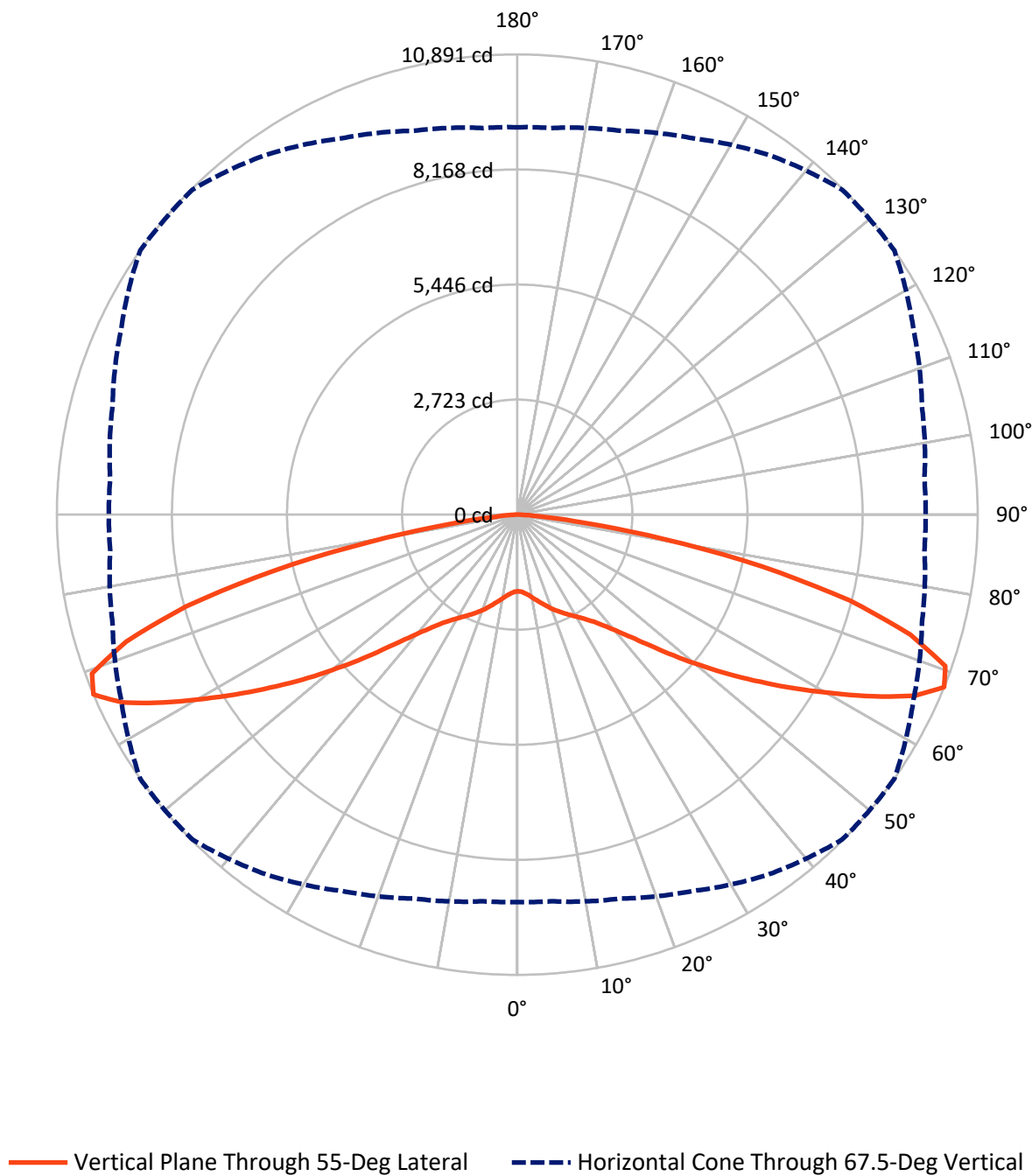
Based on 30 foot mounting height. Maximum calculated value = 2.2 fc

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	15639.5	0.0	15639.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15639.5	0.0	15639.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31279.1	0.0	31279.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	0.6
10°-20°	622.4	2.0
20°-30°	1196.7	3.8
30°-40°	1960.3	6.3
40°-50°	3407.9	10.9
50°-60°	6082.8	19.4
60°-70°	9391.6	30.0
70°-80°	7602.5	24.3
80°-90°	832.8	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°	31279.1	100.0
0°-180°	31279.1	100.0

Coefficient of Utilization



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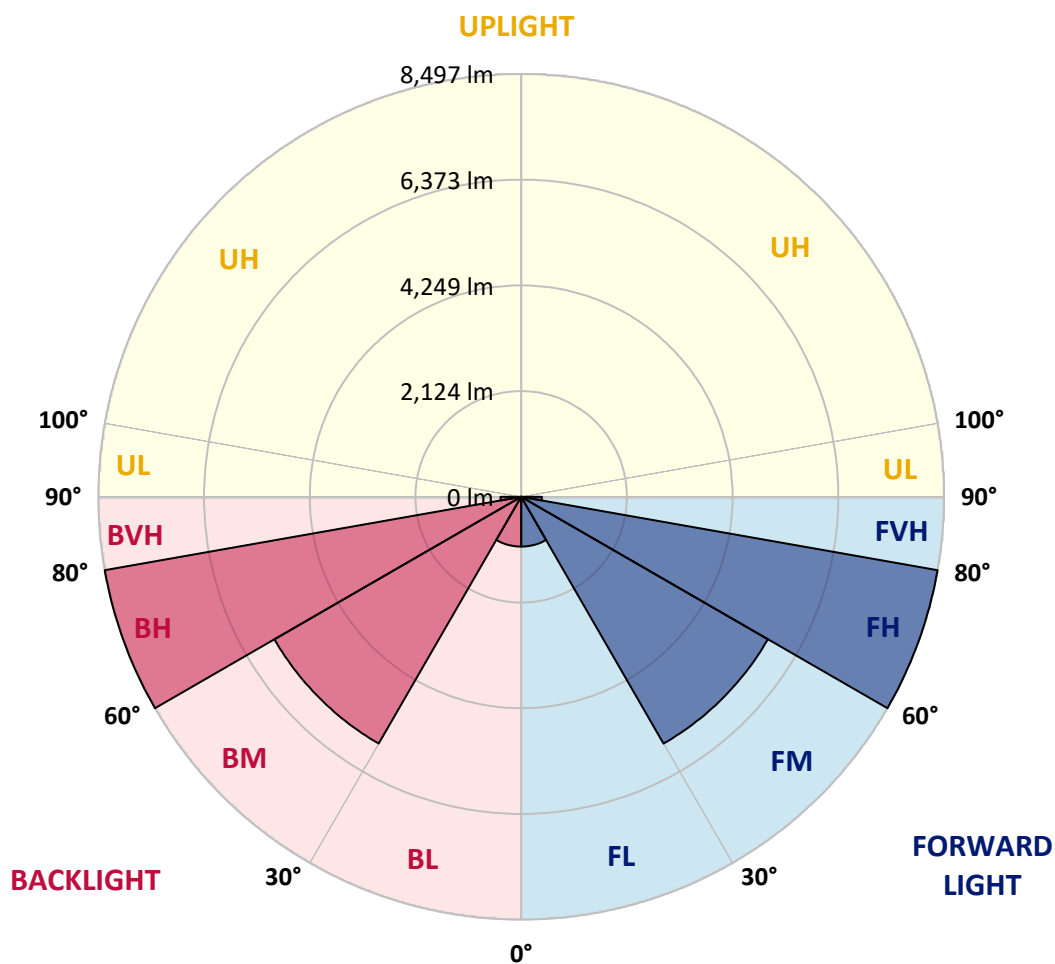
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1000.6	3.2			
FM	(30°-60°)	5725.5	18.3			
FH	(60°-80°)	8497.0	27.2			G4/12000
FVH	(80°-90°)	416.4	1.3			G3/500
BL	(0°-30°)	1000.6	3.2	B3/2500		
BM	(30°-60°)	5725.5	18.3	B4/8500		
BH	(60°-80°)	8497.0	27.2	B5		G4/12000
BVH	(80°-90°)	416.4	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°	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8	1814.8
2.5°	1826.7	1828.7	1826.7	1826.7	1824.7	1824.7	1824.7	1826.7	1826.7	1830.7	1828.7
5°	1864.4	1866.3	1862.4	1866.3	1866.3	1868.3	1866.3	1864.4	1866.3	1868.3	1862.4
7.5°	1917.9	1921.8	1919.8	1921.8	1923.8	1921.8	1921.8	1919.8	1923.8	1921.8	1917.9
10°	1987.2	1991.2	1989.2	1993.1	1995.1	1997.1	1997.1	1993.1	1991.2	1991.2	1989.2
12.5°	2070.4	2070.4	2070.4	2076.4	2080.3	2084.3	2082.3	2078.3	2072.4	2074.4	2066.5
15°	2161.6	2165.5	2165.5	2167.5	2177.4	2179.4	2177.4	2171.5	2169.5	2165.5	2161.6
17.5°	2262.6	2264.6	2266.6	2268.5	2280.4	2286.4	2278.4	2268.5	2268.5	2266.6	2266.6
20°	2367.6	2365.6	2369.6	2373.5	2381.5	2387.4	2385.4	2375.5	2367.6	2373.5	2371.6
22.5°	2464.7	2466.7	2468.6	2474.6	2488.5	2490.4	2484.5	2476.6	2466.7	2468.6	2468.6
25°	2555.8	2557.8	2561.8	2569.7	2585.5	2595.5	2587.5	2575.6	2561.8	2561.8	2563.8
27.5°	2648.9	2650.9	2652.9	2666.8	2686.6	2698.5	2692.5	2672.7	2656.9	2652.9	2647.0
30°	2752.0	2752.0	2755.9	2773.8	2799.5	2813.4	2805.5	2781.7	2757.9	2754.0	2754.0
32.5°	2882.7	2874.8	2880.8	2904.5	2932.3	2948.1	2942.2	2914.4	2884.7	2878.8	2878.8
35°	3039.3	3035.3	3039.3	3067.0	3100.7	3124.4	3110.6	3084.8	3053.1	3047.2	3043.2
37.5°	3225.5	3227.5	3239.4	3271.1	3316.6	3346.3	3332.5	3290.9	3253.2	3253.2	3253.2
40°	3461.3	3465.2	3489.0	3536.5	3601.9	3627.7	3611.8	3560.3	3516.7	3500.9	3504.8
42.5°	3782.2	3780.2	3817.9	3877.3	3954.6	3992.2	3966.5	3911.0	3847.6	3821.9	3823.8
45°	4160.6	4188.4	4228.0	4303.3	4400.4	4465.8	4420.2	4358.8	4263.7	4226.0	4224.0
47.5°	4618.3	4648.0	4697.6	4822.4	4939.3	5018.5	4982.9	4881.8	4745.1	4691.6	4671.8
50°	5139.4	5177.0	5240.4	5400.9	5567.3	5656.5	5593.1	5460.4	5313.7	5232.5	5212.7
52.5°	5725.8	5737.7	5832.8	6027.0	6233.0	6342.0	6270.7	6112.2	5924.0	5848.7	5793.2
55°	6375.7	6385.6	6494.6	6714.5	6948.3	7077.1	6985.9	6785.8	6611.5	6480.7	6492.6
57.5°	6978.0	7007.7	7168.2	7425.8	7701.2	7857.7	7758.6	7546.6	7364.3	7215.7	7233.6
60°	7621.9	7653.6	7822.0	8129.1	8501.6	8709.6	8580.8	8353.0	8164.8	8024.1	8006.3
62.5°	8305.4	8323.3	8507.5	8782.9	9258.4	9593.3	9470.4	9218.8	8998.9	8860.2	8846.3
65°	8937.5	8961.2	9117.8	9418.9	9908.3	10397.7	10328.3	9979.6	9682.4	9482.3	9454.6
67.5°	9167.3	9183.1	9403.1	9825.1	10387.7	10871.2	10891.0	10342.2	9910.3	9666.6	9660.6
70°	8897.8	8909.7	9191.1	9692.3	10409.5	10811.7	10740.4	10189.6	9658.6	9359.5	9329.8
72.5°	8293.6	8295.5	8553.1	8979.1	9698.3	10027.2	9724.0	9420.9	8872.1	8648.2	8588.8
75°	7194.0	7195.9	7374.2	7657.6	8170.7	8473.8	8129.1	7851.7	7528.8	7396.0	7326.7
77.5°	4947.2	4976.9	5161.2	5488.1	6050.8	6385.6	5933.9	5430.6	5234.5	5121.6	5054.2
80°	2381.5	2427.0	2639.0	2962.0	3550.4	4085.4	3528.6	2908.5	2526.1	2215.0	2270.5
82.5°	636.0	643.9	826.2	1186.8	1654.4	1941.6	1577.1	1103.6	695.4	467.6	428.0
85°	168.4	178.3	249.6	342.8	521.1	663.7	507.2	322.9	245.7	182.3	166.4
87.5°	45.6	53.5	87.2	105.0	130.8	105.0	130.8	112.9	109.0	57.5	41.6
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)