

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: P157625

Luminaire Tested: **VST-F10-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157625
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-F10-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26065.9 lumens
Efficiency: N/A
Efficacy: 100.8 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 - G3

Input Watts (W): 258.7
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

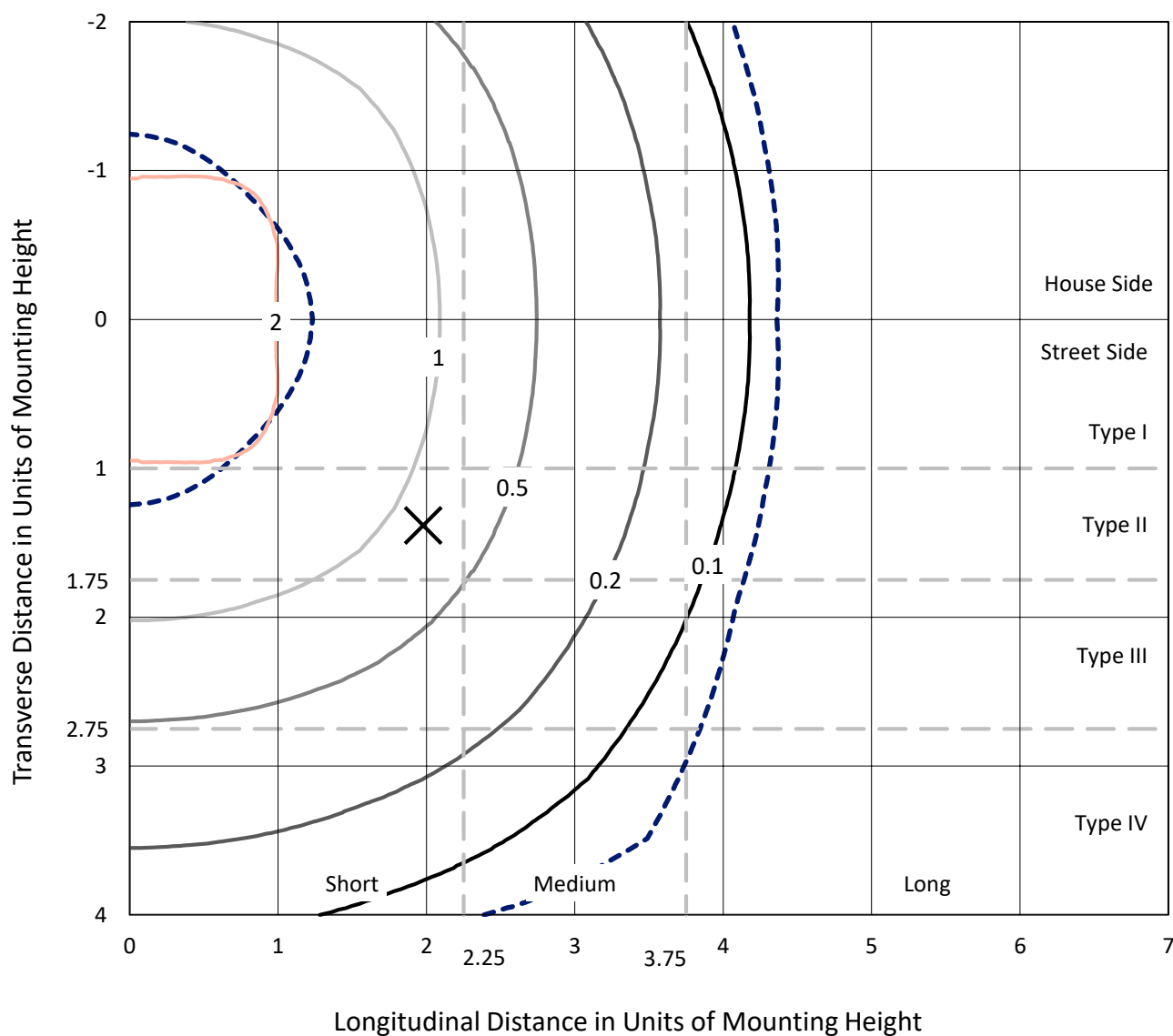


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

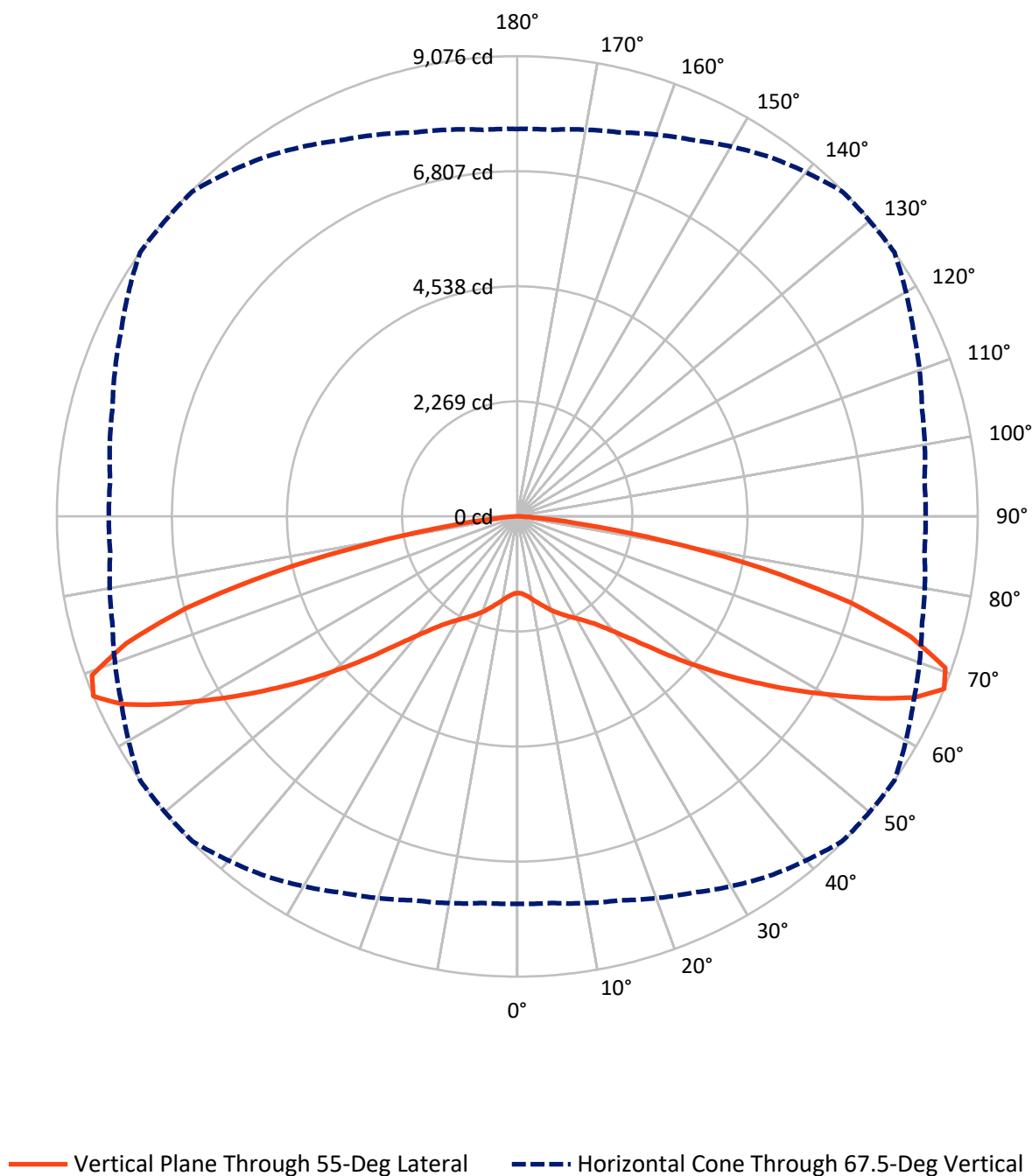


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13033.0	0.0	13033.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13033.0	0.0	13033.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26065.9	0.0	26065.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	0.6
10°-20°	518.6	2.0
20°-30°	997.2	3.8
30°-40°	1633.6	6.3
40°-50°	2839.9	10.9
50°-60°	5069.0	19.4
60°-70°	7826.3	30.0
70°-80°	6335.4	24.3
80°-90°	694.0	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°	26065.9	100.0
0°-180°	26065.9	100.0

Coefficient of Utilization



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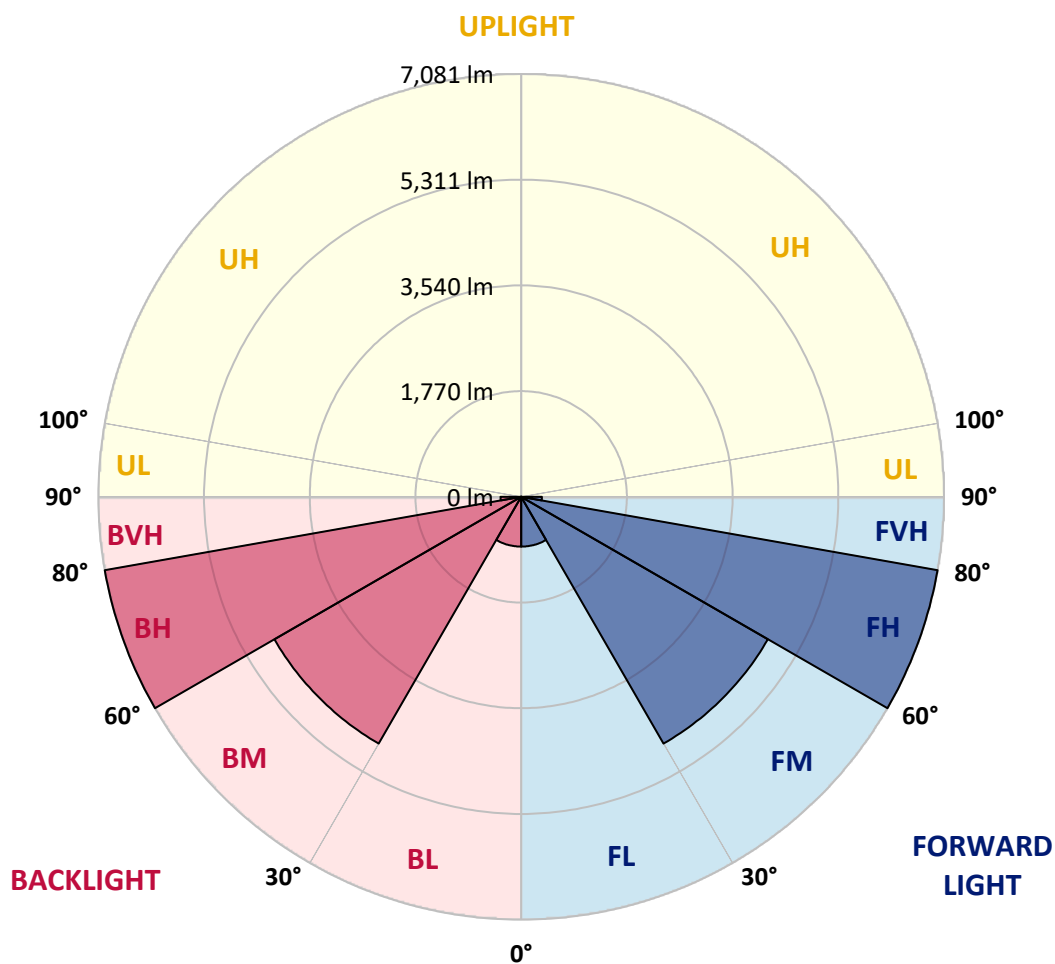
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.8	3.2			
FM	(30°-60°)	4771.3	18.3			
FH	(60°-80°)	7080.9	27.2			G3/7500
FVH	(80°-90°)	347.0	1.3			G3/500
BL	(0°-30°)	833.8	3.2	B2/1000		
BM	(30°-60°)	4771.3	18.3	B3/5000		
BH	(60°-80°)	7080.9	27.2	B5		G3/7500
BVH	(80°-90°)	347.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1522.3	1523.9	1522.3	1522.3	1520.6	1520.6	1520.6	1522.3	1522.3	1525.6	1523.9
5°	1553.6	1555.3	1552.0	1555.3	1555.3	1556.9	1555.3	1553.6	1555.3	1556.9	1552.0
7.5°	1598.2	1601.5	1599.9	1601.5	1603.2	1601.5	1601.5	1599.9	1603.2	1601.5	1598.2
10°	1656.0	1659.3	1657.7	1661.0	1662.6	1664.3	1664.3	1661.0	1659.3	1659.3	1657.7
12.5°	1725.3	1725.3	1725.3	1730.3	1733.6	1736.9	1735.3	1732.0	1727.0	1728.6	1722.0
15°	1801.3	1804.6	1804.6	1806.2	1814.5	1816.2	1814.5	1809.6	1807.9	1804.6	1801.3
17.5°	1885.5	1887.1	1888.8	1890.5	1900.4	1905.3	1898.7	1890.5	1890.5	1888.8	1888.8
20°	1973.0	1971.4	1974.7	1978.0	1984.6	1989.5	1987.9	1979.6	1973.0	1978.0	1976.3
22.5°	2053.9	2055.6	2057.2	2062.2	2073.7	2075.4	2070.4	2063.8	2055.6	2057.2	2057.2
25°	2129.9	2131.5	2134.8	2141.4	2154.6	2162.9	2156.3	2146.4	2134.8	2134.8	2136.5
27.5°	2207.5	2209.1	2210.8	2222.3	2238.8	2248.7	2243.8	2227.3	2214.1	2210.8	2205.8
30°	2293.3	2293.3	2296.6	2311.5	2332.9	2344.5	2337.9	2318.1	2298.3	2295.0	2295.0
32.5°	2402.3	2395.7	2400.6	2420.4	2443.6	2456.8	2451.8	2428.7	2403.9	2399.0	2399.0
35°	2532.7	2529.4	2532.7	2555.8	2583.9	2603.7	2592.1	2570.7	2544.3	2539.3	2536.0
37.5°	2687.9	2689.6	2699.5	2725.9	2763.9	2788.6	2777.1	2742.4	2711.0	2711.0	2711.0
40°	2884.4	2887.7	2907.5	2947.1	3001.6	3023.1	3009.9	2966.9	2930.6	2917.4	2920.7
42.5°	3151.9	3150.2	3181.6	3231.1	3295.5	3326.9	3305.4	3259.2	3206.3	3184.9	3186.5
45°	3467.2	3490.3	3523.3	3586.1	3667.0	3721.5	3683.5	3632.3	3553.1	3521.7	3520.0
47.5°	3848.6	3873.4	3914.6	4018.7	4116.1	4182.1	4152.4	4068.2	3954.3	3909.7	3893.2
50°	4282.8	4314.2	4367.0	4500.8	4639.5	4713.7	4660.9	4550.3	4428.1	4360.4	4343.9
52.5°	4771.5	4781.4	4860.7	5022.5	5194.2	5285.0	5225.6	5093.5	4936.6	4873.9	4827.7
55°	5313.1	5321.3	5412.1	5595.4	5790.2	5897.6	5821.6	5654.8	5509.6	5400.6	5410.5
57.5°	5815.0	5839.8	5973.5	6188.1	6417.6	6548.1	6465.5	6288.8	6137.0	6013.1	6028.0
60°	6351.6	6378.0	6518.3	6774.3	7084.7	7258.0	7150.7	6960.8	6804.0	6686.8	6671.9
62.5°	6921.2	6936.1	7089.6	7319.1	7715.4	7994.4	7892.0	7682.3	7499.1	7383.5	7371.9
65°	7447.9	7467.7	7598.1	7849.1	8256.9	8664.7	8606.9	8316.3	8068.7	7901.9	7878.8
67.5°	7639.4	7652.6	7835.9	8187.6	8656.5	9059.3	9075.8	8618.5	8258.6	8055.5	8050.5
70°	7414.9	7424.8	7659.2	8076.9	8674.6	9009.8	8950.3	8491.3	8048.9	7799.6	7774.8
72.5°	6911.3	6912.9	7127.6	7482.6	8081.9	8356.0	8103.4	7850.7	7393.4	7206.8	7157.3
75°	5995.0	5996.6	6145.2	6381.3	6808.9	7061.5	6774.3	6543.1	6274.0	6163.4	6105.6
77.5°	4122.7	4147.4	4301.0	4573.4	5042.3	5321.3	4944.9	4525.5	4362.1	4268.0	4211.8
80°	1984.6	2022.5	2199.2	2468.3	2958.7	3404.5	2940.5	2423.7	2105.1	1845.9	1892.1
82.5°	530.0	536.6	688.5	989.0	1378.6	1618.0	1314.2	919.6	579.5	389.6	356.6
85°	140.3	148.6	208.0	285.6	434.2	553.1	422.7	269.1	204.7	151.9	138.7
87.5°	38.0	44.6	72.6	87.5	109.0	87.5	109.0	94.1	90.8	47.9	34.7
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)