

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: P157623

Luminaire Tested: **VST-F10-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157623
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21999.4 lumens
Efficiency: N/A
Efficacy: 85.0 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



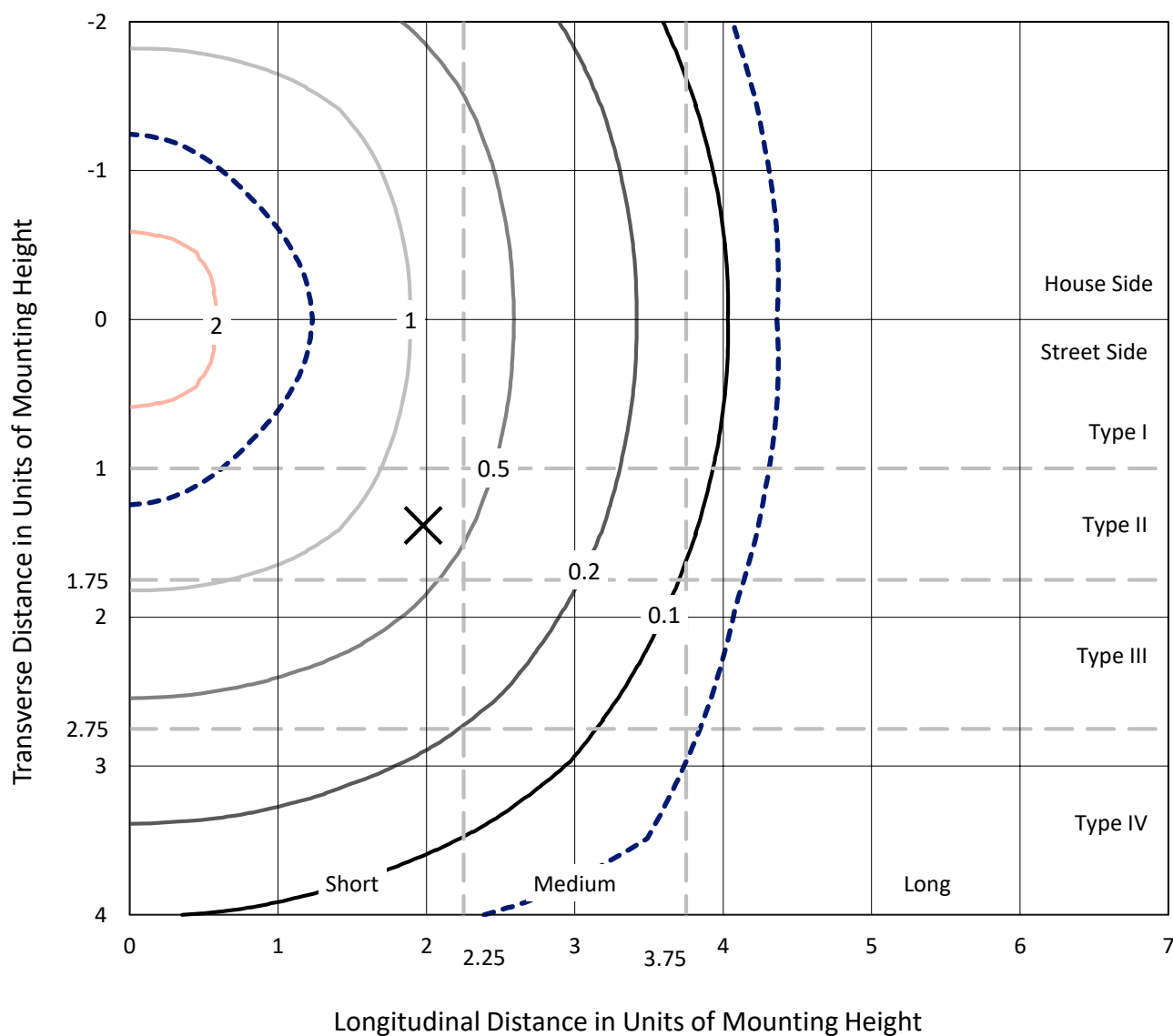
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

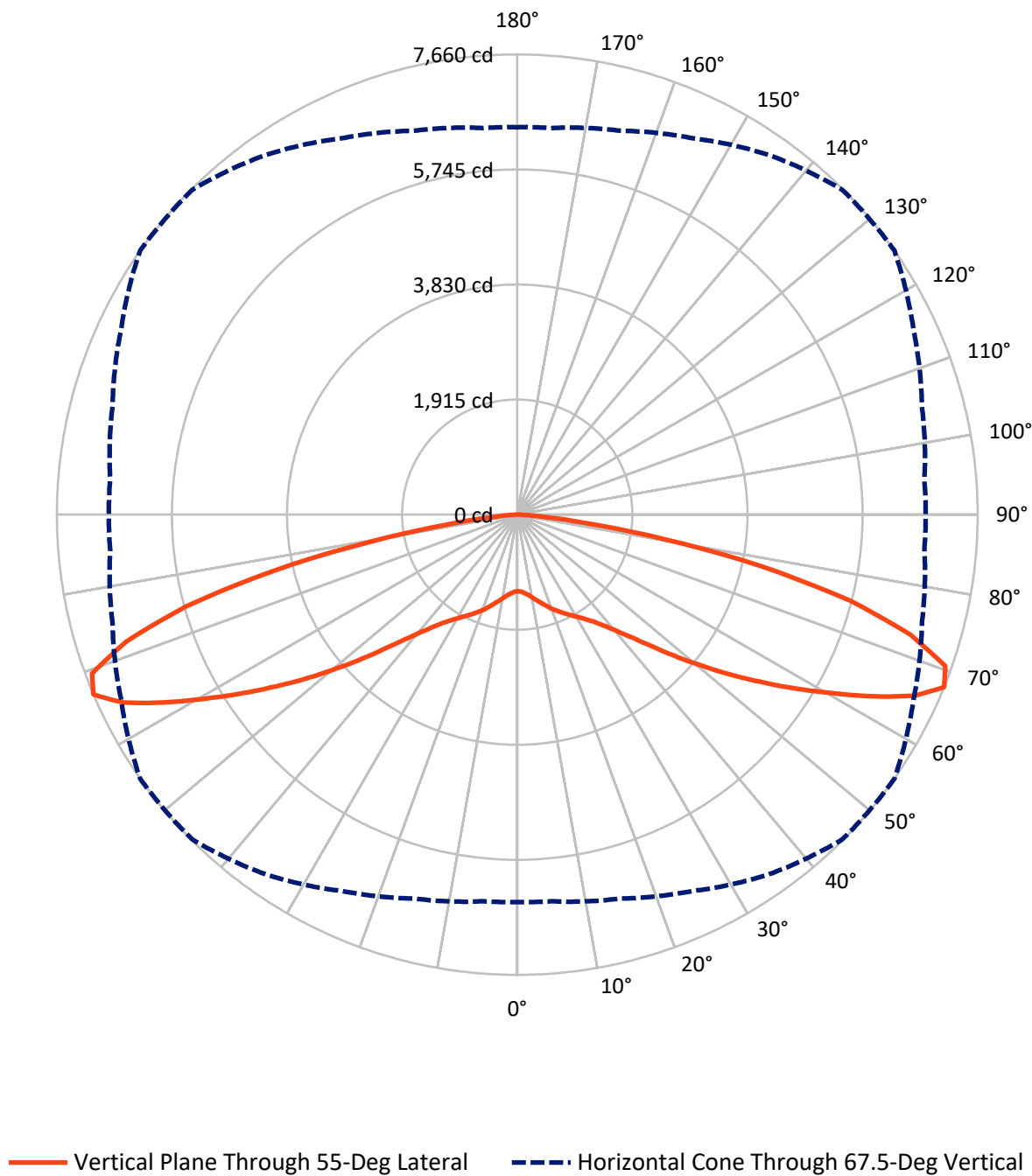


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10999.7	0.0	10999.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10999.7	0.0	10999.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21999.4	0.0	21999.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	0.6
10°-20°	437.7	2.0
20°-30°	841.7	3.8
30°-40°	1378.7	6.3
40°-50°	2396.9	10.9
50°-60°	4278.2	19.4
60°-70°	6605.3	30.0
70°-80°	5347.0	24.3
80°-90°	585.7	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°	21999.4	100.0
0°-180°	21999.4	100.0

Coefficient of Utilization



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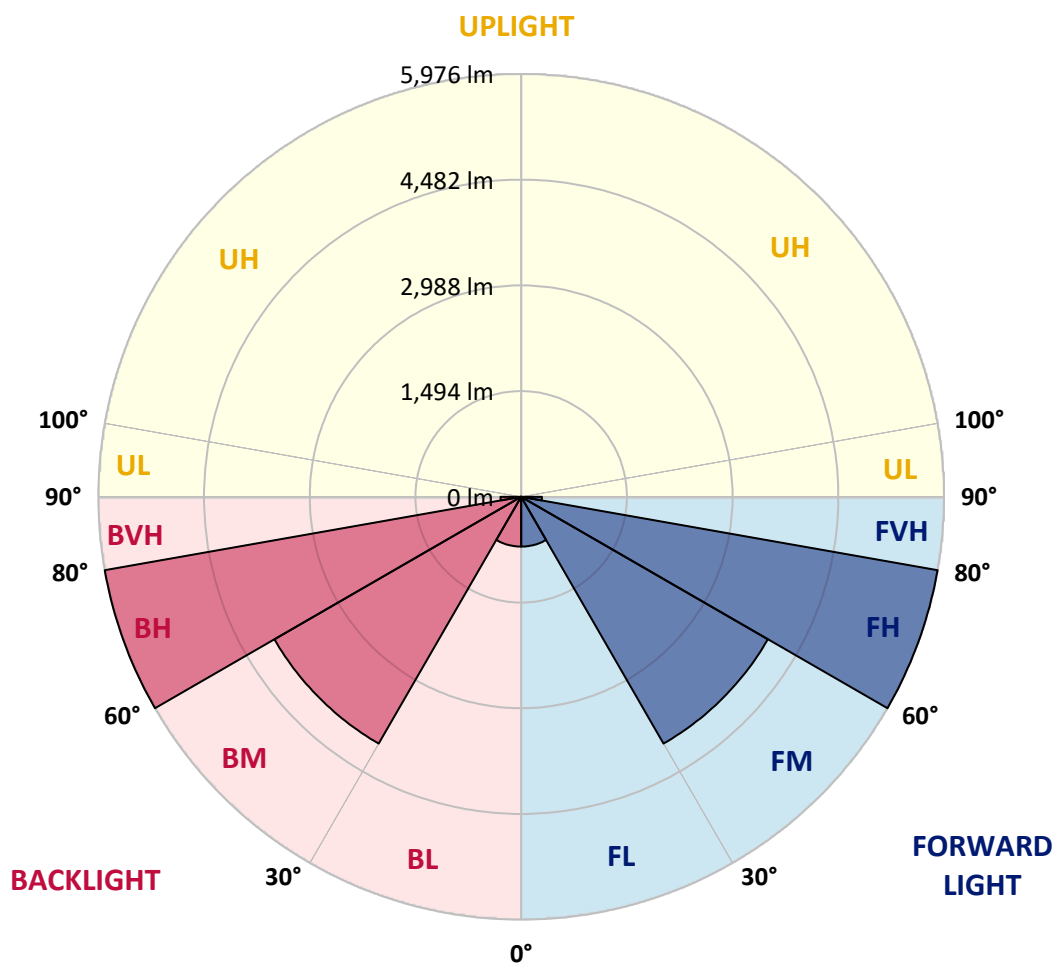
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.7	3.2			
FM	(30°-60°)	4026.9	18.3			
FH	(60°-80°)	5976.2	27.2			G3/7500
FVH	(80°-90°)	292.9	1.3			G3/500
BL	(0°-30°)	703.7	3.2	B2/1000		
BM	(30°-60°)	4026.9	18.3	B3/5000		
BH	(60°-80°)	5976.2	27.2	B5		G3/7500
BVH	(80°-90°)	292.9	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°	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4
2.5°	1284.8	1286.2	1284.8	1284.8	1283.4	1283.4	1283.4	1284.8	1284.8	1287.6	1286.2
5°	1311.3	1312.6	1309.9	1312.6	1312.6	1314.0	1312.6	1311.3	1312.6	1314.0	1309.9
7.5°	1348.9	1351.7	1350.3	1351.7	1353.1	1351.7	1351.7	1350.3	1353.1	1351.7	1348.9
10°	1397.7	1400.4	1399.0	1401.8	1403.2	1404.6	1404.6	1401.8	1400.4	1400.4	1399.0
12.5°	1456.2	1456.2	1456.2	1460.4	1463.1	1465.9	1464.5	1461.8	1457.6	1459.0	1453.4
15°	1520.3	1523.1	1523.1	1524.5	1531.4	1532.8	1531.4	1527.2	1525.9	1523.1	1520.3
17.5°	1591.3	1592.7	1594.1	1595.5	1603.9	1608.1	1602.5	1595.5	1595.5	1594.1	1594.1
20°	1665.2	1663.8	1666.6	1669.4	1675.0	1679.1	1677.7	1670.8	1665.2	1669.4	1668.0
22.5°	1733.5	1734.9	1736.3	1740.4	1750.2	1751.6	1747.4	1741.8	1734.9	1736.3	1736.3
25°	1797.6	1799.0	1801.8	1807.3	1818.5	1825.4	1819.9	1811.5	1801.8	1801.8	1803.2
27.5°	1863.1	1864.5	1865.9	1875.6	1889.5	1897.9	1893.7	1879.8	1868.6	1865.9	1861.7
30°	1935.5	1935.5	1938.3	1950.9	1969.0	1978.7	1973.2	1956.4	1939.7	1936.9	1936.9
32.5°	2027.5	2021.9	2026.1	2042.8	2062.3	2073.5	2069.3	2049.8	2028.9	2024.7	2024.7
35°	2137.6	2134.8	2137.6	2157.1	2180.8	2197.5	2187.7	2169.6	2147.3	2143.2	2140.4
37.5°	2268.6	2270.0	2278.3	2300.6	2332.7	2353.6	2343.8	2314.6	2288.1	2288.1	2288.1
40°	2434.4	2437.2	2453.9	2487.3	2533.3	2551.4	2540.3	2504.1	2473.4	2462.3	2465.1
42.5°	2660.1	2658.7	2685.2	2727.0	2781.4	2807.8	2789.7	2750.7	2706.1	2688.0	2689.4
45°	2926.3	2945.8	2973.7	3026.6	3094.9	3140.9	3108.8	3065.6	2998.7	2972.3	2970.9
47.5°	3248.2	3269.1	3303.9	3391.7	3473.9	3529.7	3504.6	3433.5	3337.4	3299.7	3285.8
50°	3614.7	3641.1	3685.7	3798.6	3915.7	3978.4	3933.8	3840.4	3737.3	3680.2	3666.2
52.5°	4027.1	4035.5	4102.4	4238.9	4383.9	4460.5	4410.3	4298.9	4166.5	4113.5	4074.5
55°	4484.2	4491.2	4567.8	4722.5	4886.9	4977.5	4913.4	4772.6	4650.0	4558.0	4566.4
57.5°	4907.8	4928.7	5041.6	5222.7	5416.4	5526.5	5456.8	5307.7	5179.5	5075.0	5087.6
60°	5360.7	5383.0	5501.4	5717.4	5979.4	6125.7	6035.1	5874.9	5742.5	5643.6	5631.0
62.5°	5841.4	5854.0	5983.6	6177.3	6511.7	6747.2	6660.8	6483.8	6329.1	6231.6	6221.8
65°	6285.9	6302.7	6412.8	6624.6	6968.7	7312.9	7264.2	7018.9	6809.9	6669.2	6649.6
67.5°	6447.6	6458.7	6613.4	6910.2	7306.0	7646.0	7659.9	7273.9	6970.1	6798.7	6794.6
70°	6258.1	6266.4	6464.3	6816.9	7321.3	7604.2	7554.0	7166.6	6793.2	6582.8	6561.9
72.5°	5833.1	5834.5	6015.6	6315.2	6821.0	7052.4	6839.2	6626.0	6240.0	6082.5	6040.7
75°	5059.7	5061.1	5186.5	5385.8	5746.7	5959.9	5717.4	5522.3	5295.2	5201.8	5153.1
77.5°	3479.5	3500.4	3630.0	3859.9	4255.7	4491.2	4173.4	3819.5	3681.6	3602.1	3554.7
80°	1675.0	1707.0	1856.1	2083.2	2497.1	2873.3	2481.8	2045.6	1776.7	1557.9	1596.9
82.5°	447.3	452.9	581.1	834.7	1163.5	1365.6	1109.2	776.2	489.1	328.9	301.0
85°	118.4	125.4	175.6	241.1	366.5	466.8	356.7	227.1	172.8	128.2	117.1
87.5°	32.0	37.6	61.3	73.9	92.0	73.9	92.0	79.4	76.6	40.4	29.3
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)