

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: P157624

Luminaire Tested: **VST-F10-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157624
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (70) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23807.3 lumens
Efficiency: N/A
Efficacy: 92.0 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



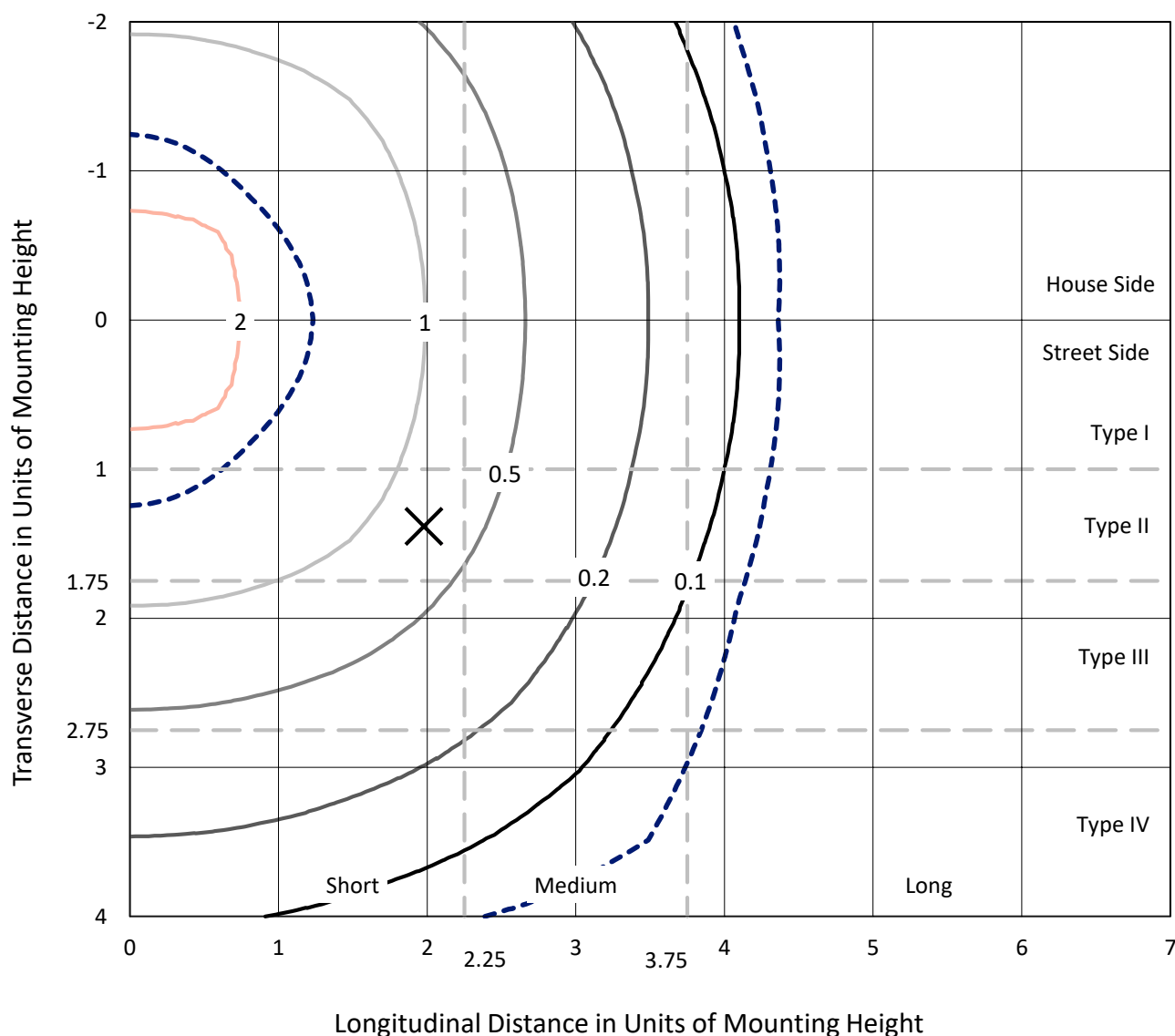
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

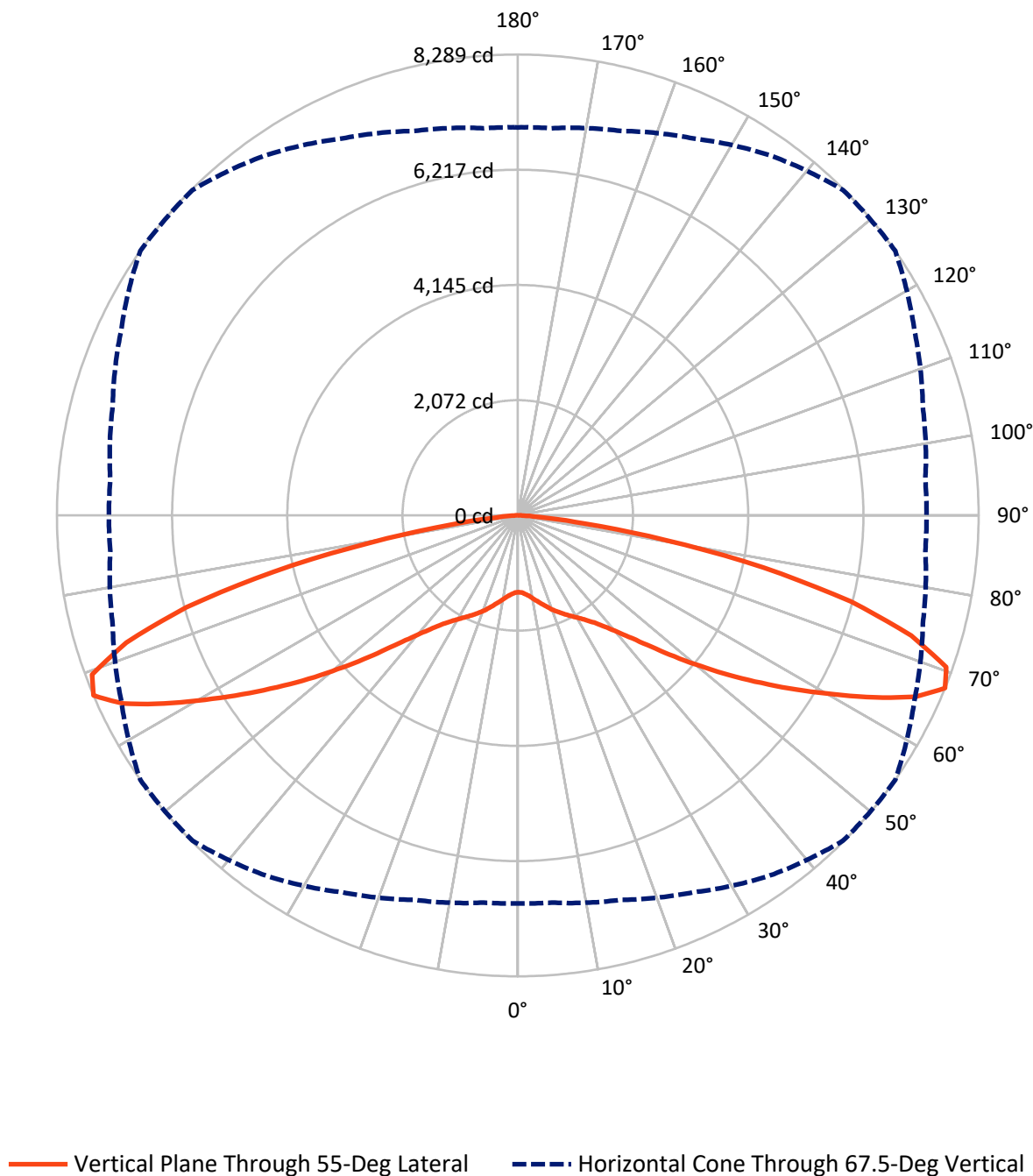


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11903.6	0.0	11903.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11903.6	0.0	11903.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23807.3	0.0	23807.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	0.6
10°-20°	473.7	2.0
20°-30°	910.8	3.8
30°-40°	1492.1	6.3
40°-50°	2593.8	10.9
50°-60°	4629.8	19.4
60°-70°	7148.2	30.0
70°-80°	5786.4	24.3
80°-90°	633.8	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°	23807.3	100.0
0°-180°	23807.3	100.0

Coefficient of Utilization



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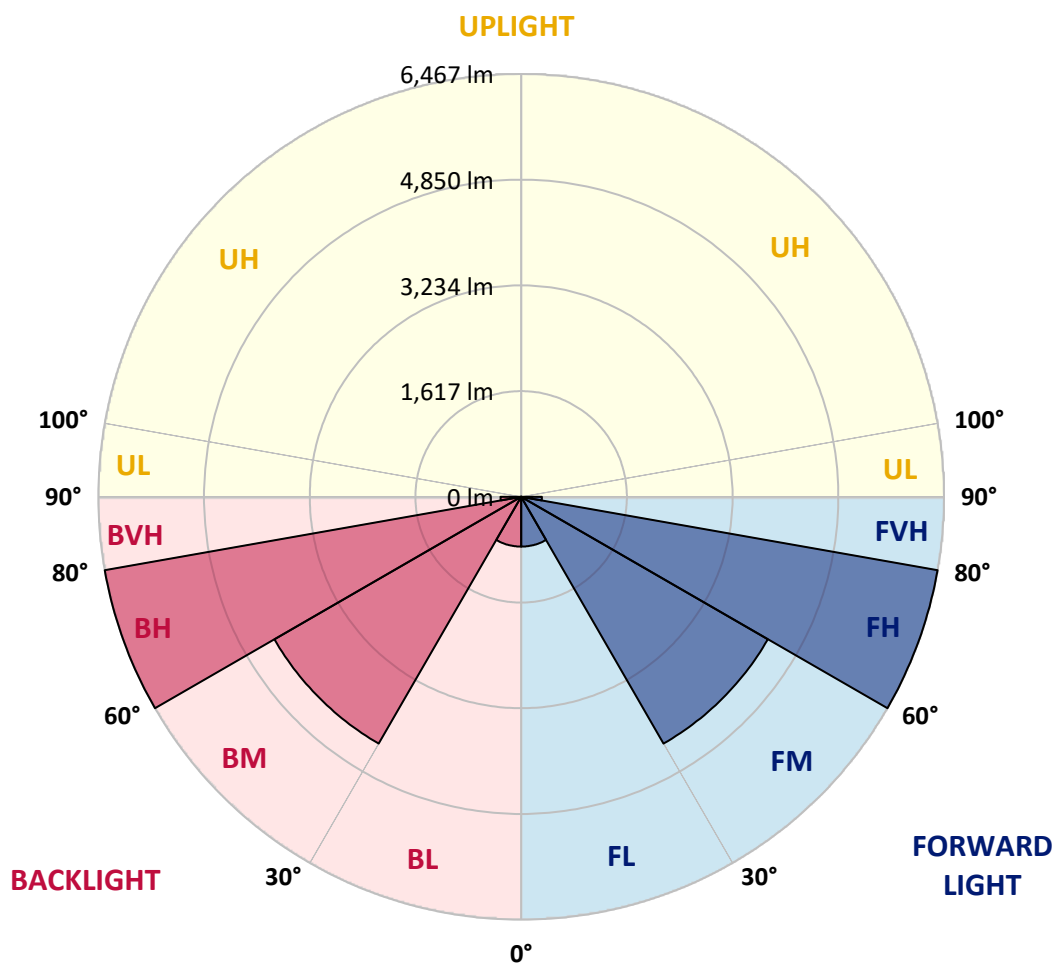
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.6	3.2			
FM	(30°-60°)	4357.8	18.3			
FH	(60°-80°)	6467.3	27.2			G3/7500
FVH	(80°-90°)	316.9	1.3			G3/500
BL	(0°-30°)	761.6	3.2	B2/1000		
BM	(30°-60°)	4357.8	18.3	B3/5000		
BH	(60°-80°)	6467.3	27.2	B5		G3/7500
BVH	(80°-90°)	316.9	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°	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3	1381.3
2.5°	1390.4	1391.9	1390.4	1390.4	1388.9	1388.9	1388.9	1390.4	1390.4	1393.4	1391.9
5°	1419.0	1420.5	1417.5	1420.5	1420.5	1422.0	1420.5	1419.0	1420.5	1422.0	1417.5
7.5°	1459.7	1462.7	1461.2	1462.7	1464.3	1462.7	1462.7	1461.2	1464.3	1462.7	1459.7
10°	1512.5	1515.5	1514.0	1517.0	1518.5	1520.1	1520.1	1517.0	1515.5	1515.5	1514.0
12.5°	1575.8	1575.8	1575.8	1580.4	1583.4	1586.4	1584.9	1581.9	1577.4	1578.9	1572.8
15°	1645.2	1648.2	1648.2	1649.7	1657.3	1658.8	1657.3	1652.8	1651.2	1648.2	1645.2
17.5°	1722.1	1723.6	1725.1	1726.6	1735.7	1740.2	1734.2	1726.6	1726.6	1725.1	1725.1
20°	1802.0	1800.5	1803.6	1806.6	1812.6	1817.1	1815.6	1808.1	1802.0	1806.6	1805.1
22.5°	1875.9	1877.4	1879.0	1883.5	1894.0	1895.5	1891.0	1885.0	1877.4	1879.0	1879.0
25°	1945.3	1946.8	1949.8	1955.9	1967.9	1975.5	1969.4	1960.4	1949.8	1949.8	1951.3
27.5°	2016.2	2017.7	2019.2	2029.8	2044.8	2053.9	2049.4	2034.3	2022.2	2019.2	2014.7
30°	2094.6	2094.6	2097.6	2111.2	2130.8	2141.3	2135.3	2117.2	2099.1	2096.1	2096.1
32.5°	2194.1	2188.1	2192.6	2210.7	2231.8	2243.9	2239.4	2218.2	2195.6	2191.1	2191.1
35°	2313.3	2310.2	2313.3	2334.4	2360.0	2378.1	2367.5	2347.9	2323.8	2319.3	2316.3
37.5°	2455.0	2456.5	2465.6	2489.7	2524.4	2547.0	2536.4	2504.8	2476.1	2476.1	2476.1
40°	2634.5	2637.5	2655.6	2691.8	2741.5	2761.1	2749.1	2709.9	2676.7	2664.6	2667.6
42.5°	2878.7	2877.2	2905.9	2951.1	3009.9	3038.6	3019.0	2976.8	2928.5	2908.9	2910.4
45°	3166.8	3187.9	3218.0	3275.3	3349.2	3399.0	3364.3	3317.6	3245.2	3216.5	3215.0
47.5°	3515.1	3537.7	3575.4	3670.4	3759.4	3819.7	3792.6	3715.7	3611.6	3570.9	3555.8
50°	3911.7	3940.4	3988.6	4110.8	4237.4	4305.3	4257.0	4156.0	4044.4	3982.6	3967.5
52.5°	4358.1	4367.1	4439.5	4587.3	4744.1	4827.1	4772.8	4652.1	4508.9	4451.6	4409.4
55°	4852.7	4860.2	4943.2	5110.6	5288.5	5386.5	5317.2	5164.9	5032.2	4932.6	4941.7
57.5°	5311.1	5333.7	5455.9	5651.9	5861.5	5980.7	5905.3	5743.9	5605.2	5492.1	5505.7
60°	5801.2	5825.4	5953.5	6187.3	6470.8	6629.1	6531.1	6357.7	6214.4	6107.3	6093.8
62.5°	6321.5	6335.1	6475.3	6684.9	7046.8	7301.7	7208.2	7016.7	6849.3	6743.7	6733.2
65°	6802.5	6820.6	6939.8	7169.0	7541.4	7913.9	7861.1	7595.7	7369.5	7217.2	7196.1
67.5°	6977.5	6989.5	7156.9	7478.1	7906.4	8274.3	8289.4	7871.7	7543.0	7357.5	7352.9
70°	6772.4	6781.4	6995.6	7377.1	7923.0	8229.1	8174.8	7755.6	7351.4	7123.7	7101.1
72.5°	6312.4	6313.9	6510.0	6834.2	7381.6	7631.9	7401.2	7170.5	6752.8	6582.4	6537.1
75°	5475.5	5477.0	5612.7	5828.4	6218.9	6449.7	6187.3	5976.2	5730.4	5629.3	5576.5
77.5°	3765.4	3788.1	3928.3	4177.1	4605.4	4860.2	4516.4	4133.4	3984.1	3898.1	3846.9
80°	1812.6	1847.3	2008.6	2254.4	2702.3	3109.5	2685.7	2213.7	1922.7	1685.9	1728.2
82.5°	484.1	490.1	628.8	903.3	1259.2	1477.8	1200.4	839.9	529.3	355.9	325.7
85°	128.2	135.7	190.0	260.9	396.6	505.2	386.0	245.8	187.0	138.7	126.7
87.5°	34.7	40.7	66.4	79.9	99.5	79.9	99.5	86.0	82.9	43.7	31.7
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)