

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: P157566

Luminaire Tested: **VST-F04-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157566
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-F04-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10698.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 102.2
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



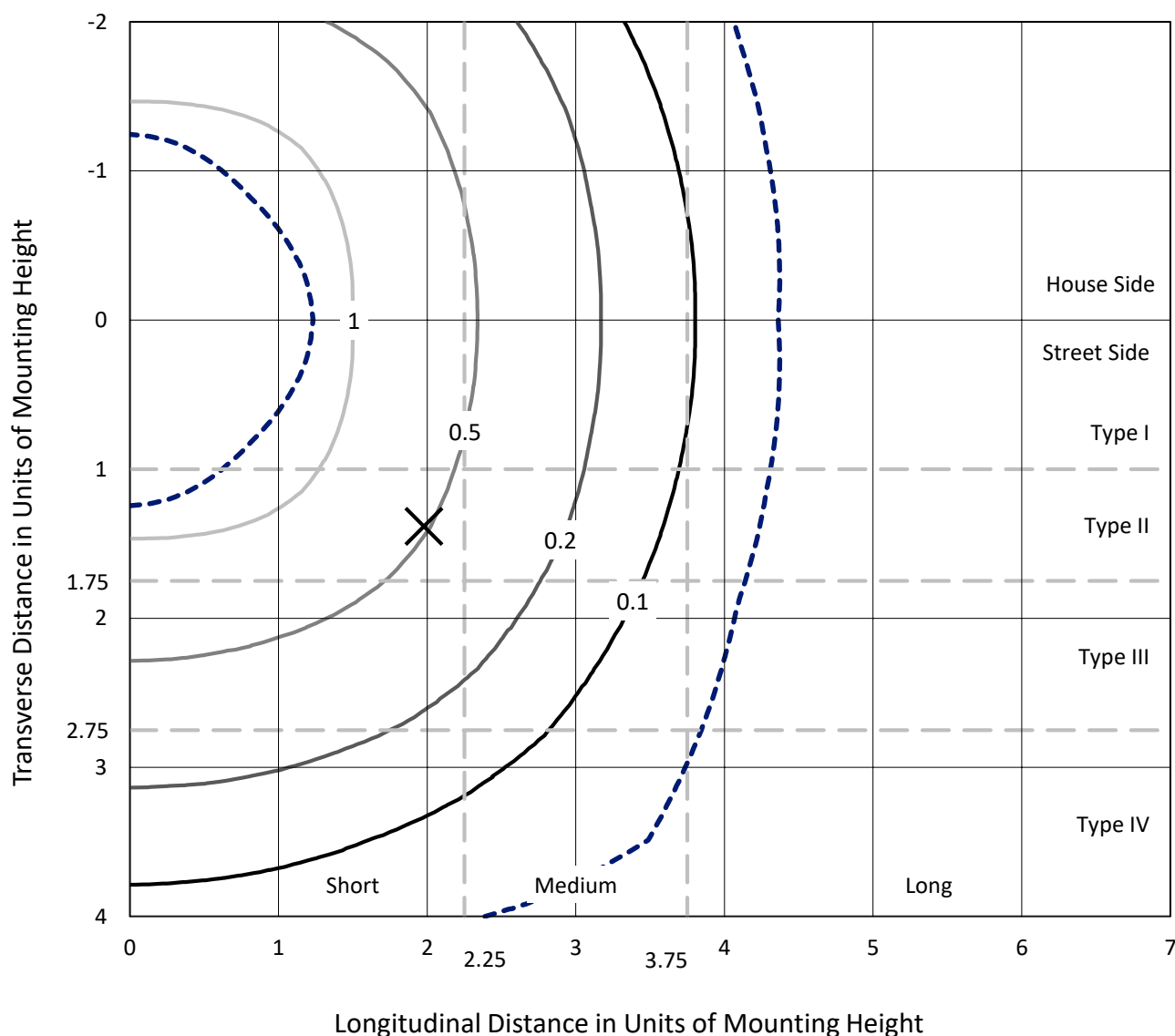
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

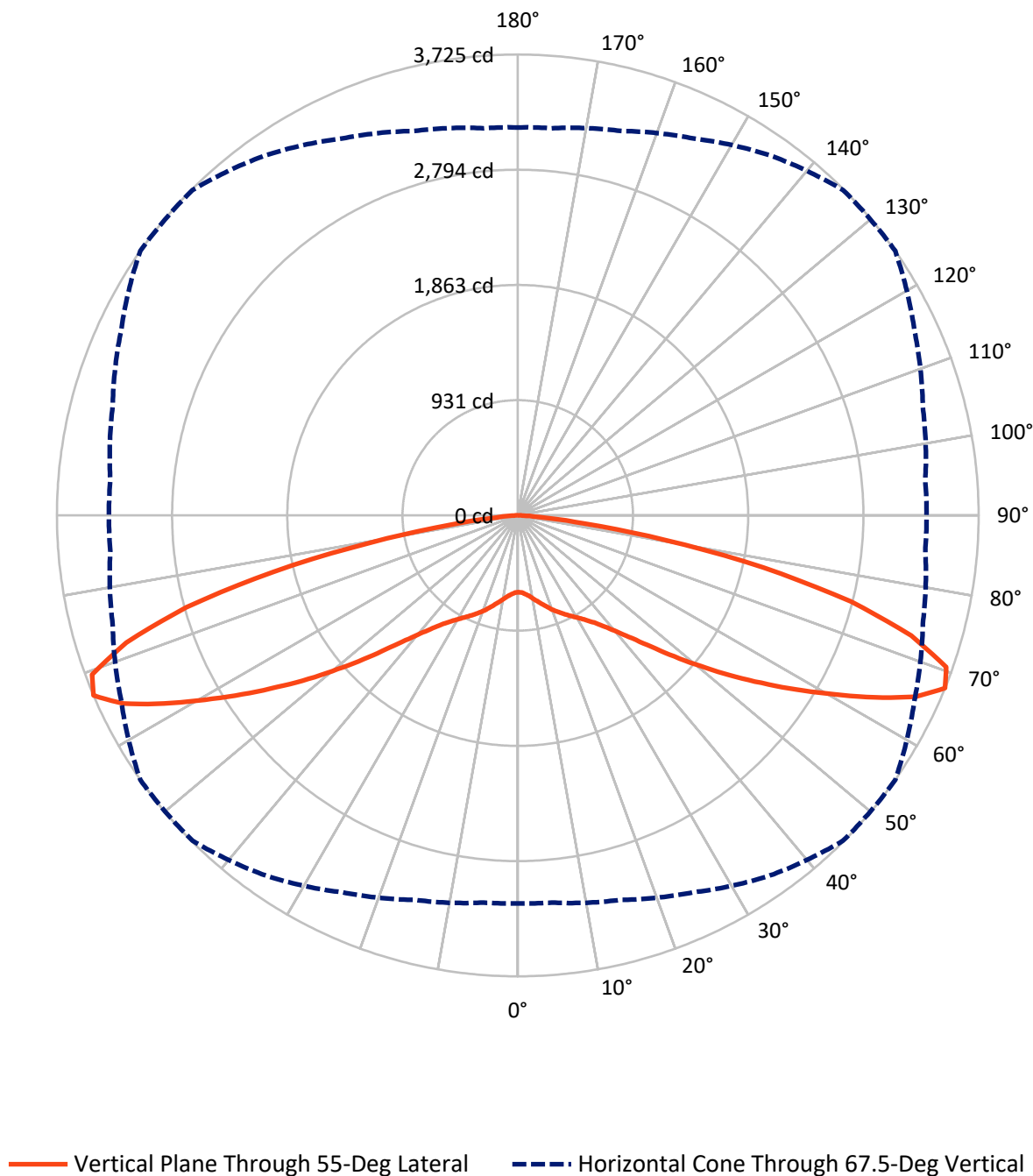


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5349.3	0.0	5349.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5349.3	0.0	5349.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10698.5	0.0	10698.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	0.6
10°-20°	212.9	2.0
20°-30°	409.3	3.8
30°-40°	670.5	6.3
40°-50°	1165.6	10.9
50°-60°	2080.5	19.4
60°-70°	3212.2	30.0
70°-80°	2600.3	24.3
80°-90°	284.8	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°	10698.5	100.0
0°-180°	10698.5	100.0

Coefficient of Utilization



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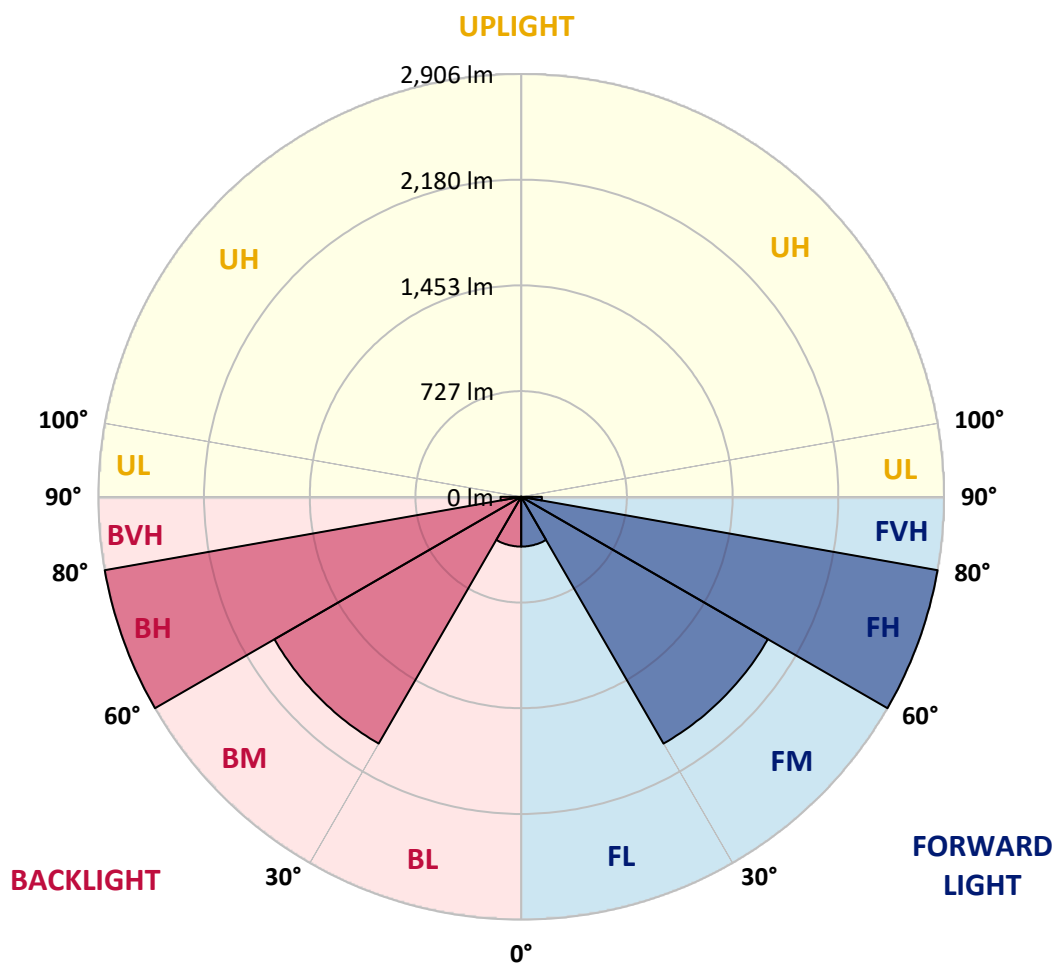
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.2	3.2			
FM	(30°-60°)	1958.3	18.3			
FH	(60°-80°)	2906.3	27.2			G2/5000
FVH	(80°-90°)	142.4	1.3			G2/225
BL	(0°-30°)	342.2	3.2	B1/500		
BM	(30°-60°)	1958.3	18.3	B2/2500		
BH	(60°-80°)	2906.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	142.4	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	624.8	625.5	624.8	624.8	624.1	624.1	624.1	624.8	624.8	626.2	625.5
5°	637.7	638.4	637.0	638.4	638.4	639.0	638.4	637.7	638.4	639.0	637.0
7.5°	656.0	657.3	656.7	657.3	658.0	657.3	657.3	656.7	658.0	657.3	656.0
10°	679.7	681.0	680.4	681.7	682.4	683.1	683.1	681.7	681.0	681.0	680.4
12.5°	708.2	708.2	708.2	710.2	711.5	712.9	712.2	710.9	708.8	709.5	706.8
15°	739.3	740.7	740.7	741.4	744.7	745.4	744.7	742.7	742.0	740.7	739.3
17.5°	773.9	774.6	775.2	775.9	780.0	782.0	779.3	775.9	775.9	775.2	775.2
20°	809.8	809.1	810.5	811.8	814.5	816.6	815.9	812.5	809.8	811.8	811.2
22.5°	843.0	843.7	844.4	846.4	851.1	851.8	849.8	847.1	843.7	844.4	844.4
25°	874.2	874.9	876.2	878.9	884.3	887.7	885.0	881.0	876.2	876.2	876.9
27.5°	906.0	906.7	907.4	912.1	918.9	923.0	920.9	914.2	908.7	907.4	905.4
30°	941.3	941.3	942.6	948.7	957.5	962.3	959.6	951.4	943.3	941.9	941.9
32.5°	986.0	983.3	985.3	993.5	1002.9	1008.4	1006.3	996.8	986.7	984.6	984.6
35°	1039.5	1038.2	1039.5	1049.0	1060.5	1068.7	1063.9	1055.1	1044.3	1042.2	1040.9
37.5°	1103.2	1103.9	1108.0	1118.8	1134.4	1144.6	1139.8	1125.6	1112.7	1112.7	1112.7
40°	1183.9	1185.2	1193.4	1209.6	1232.0	1240.8	1235.4	1217.8	1202.8	1197.4	1198.8
42.5°	1293.7	1293.0	1305.9	1326.2	1352.6	1365.5	1356.7	1337.7	1316.0	1307.2	1307.9
45°	1423.1	1432.6	1446.1	1471.9	1505.1	1527.4	1511.9	1490.9	1458.3	1445.4	1444.8
47.5°	1579.6	1589.8	1606.7	1649.4	1689.4	1716.5	1704.3	1669.8	1623.0	1604.7	1597.9
50°	1757.9	1770.7	1792.4	1847.3	1904.2	1934.7	1913.0	1867.6	1817.5	1789.7	1782.9
52.5°	1958.4	1962.5	1995.0	2061.4	2131.9	2169.2	2144.8	2090.6	2026.2	2000.5	1981.5
55°	2180.7	2184.1	2221.4	2296.6	2376.6	2420.6	2389.4	2321.0	2261.4	2216.6	2220.7
57.5°	2386.7	2396.9	2451.8	2539.9	2634.1	2687.6	2653.7	2581.2	2518.9	2468.0	2474.1
60°	2607.0	2617.8	2675.4	2780.4	2907.8	2979.0	2934.9	2857.0	2792.6	2744.5	2738.4
62.5°	2840.8	2846.9	2909.9	3004.1	3166.7	3281.2	3239.2	3153.2	3077.9	3030.5	3025.8
65°	3056.9	3065.1	3118.6	3221.6	3389.0	3556.4	3532.6	3413.4	3311.7	3243.3	3233.8
67.5°	3135.5	3141.0	3216.2	3360.5	3553.0	3718.3	3725.1	3537.4	3389.7	3306.3	3304.3
70°	3043.4	3047.4	3143.7	3315.1	3560.4	3698.0	3673.6	3485.2	3303.6	3201.3	3191.1
72.5°	2836.7	2837.4	2925.5	3071.2	3317.1	3429.6	3326.0	3222.3	3034.6	2958.0	2937.7
75°	2460.6	2461.3	2522.3	2619.2	2794.7	2898.4	2780.4	2685.6	2575.1	2529.7	2506.0
77.5°	1692.1	1702.3	1765.3	1877.1	2069.6	2184.1	2029.6	1857.5	1790.4	1751.8	1728.7
80°	814.5	830.1	902.6	1013.1	1214.4	1397.3	1206.9	994.8	864.0	757.6	776.6
82.5°	217.5	220.2	282.6	405.9	565.8	664.1	539.4	377.5	237.9	159.9	146.4
85°	57.6	61.0	85.4	117.2	178.2	227.0	173.5	110.5	84.0	62.3	56.9
87.5°	15.6	18.3	29.8	35.9	44.7	35.9	44.7	38.6	37.3	19.7	14.2
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)