

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: P157595

Luminaire Tested: **VST-F07-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157595
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-F07-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18246.1 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 180.5
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



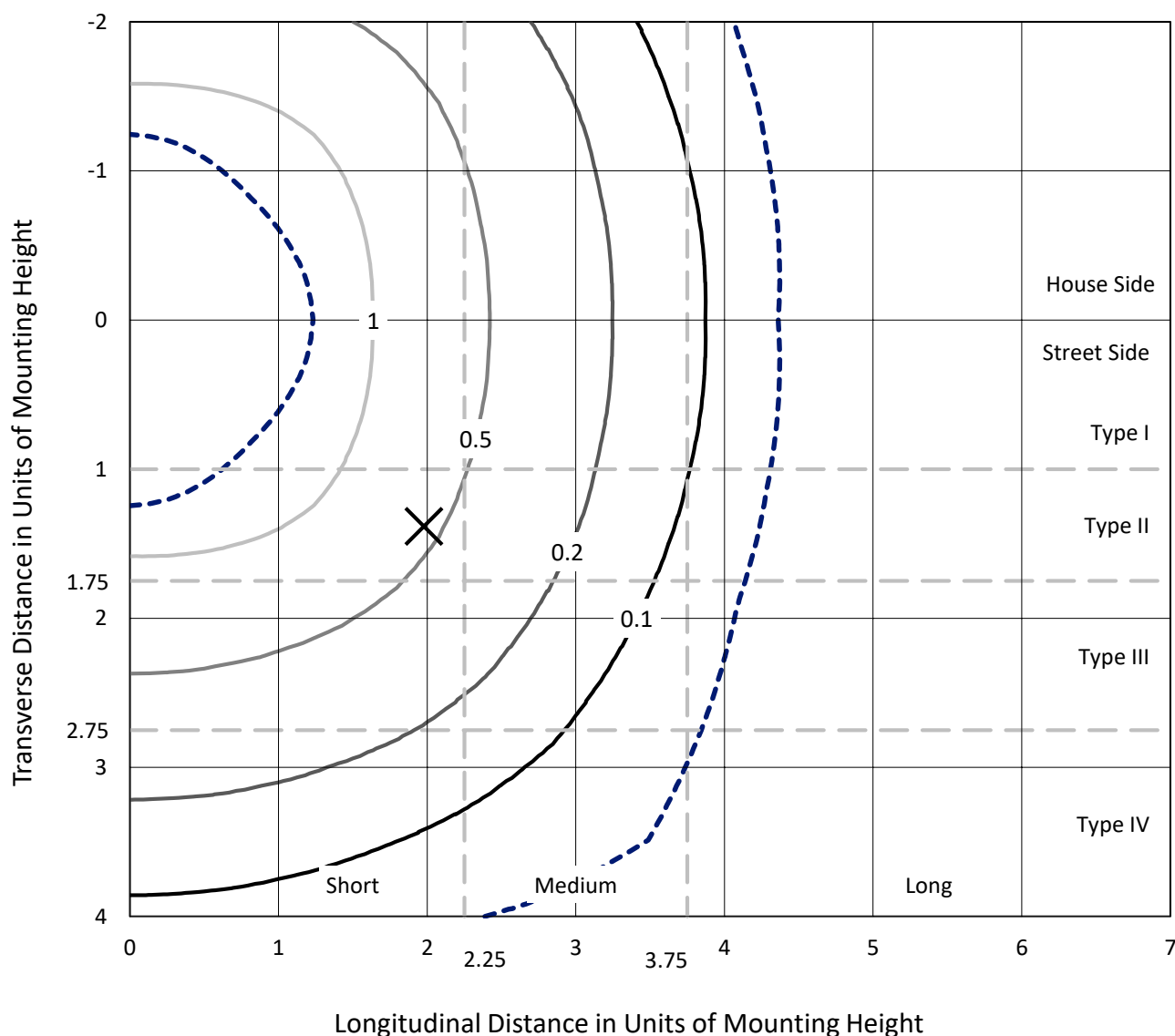
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

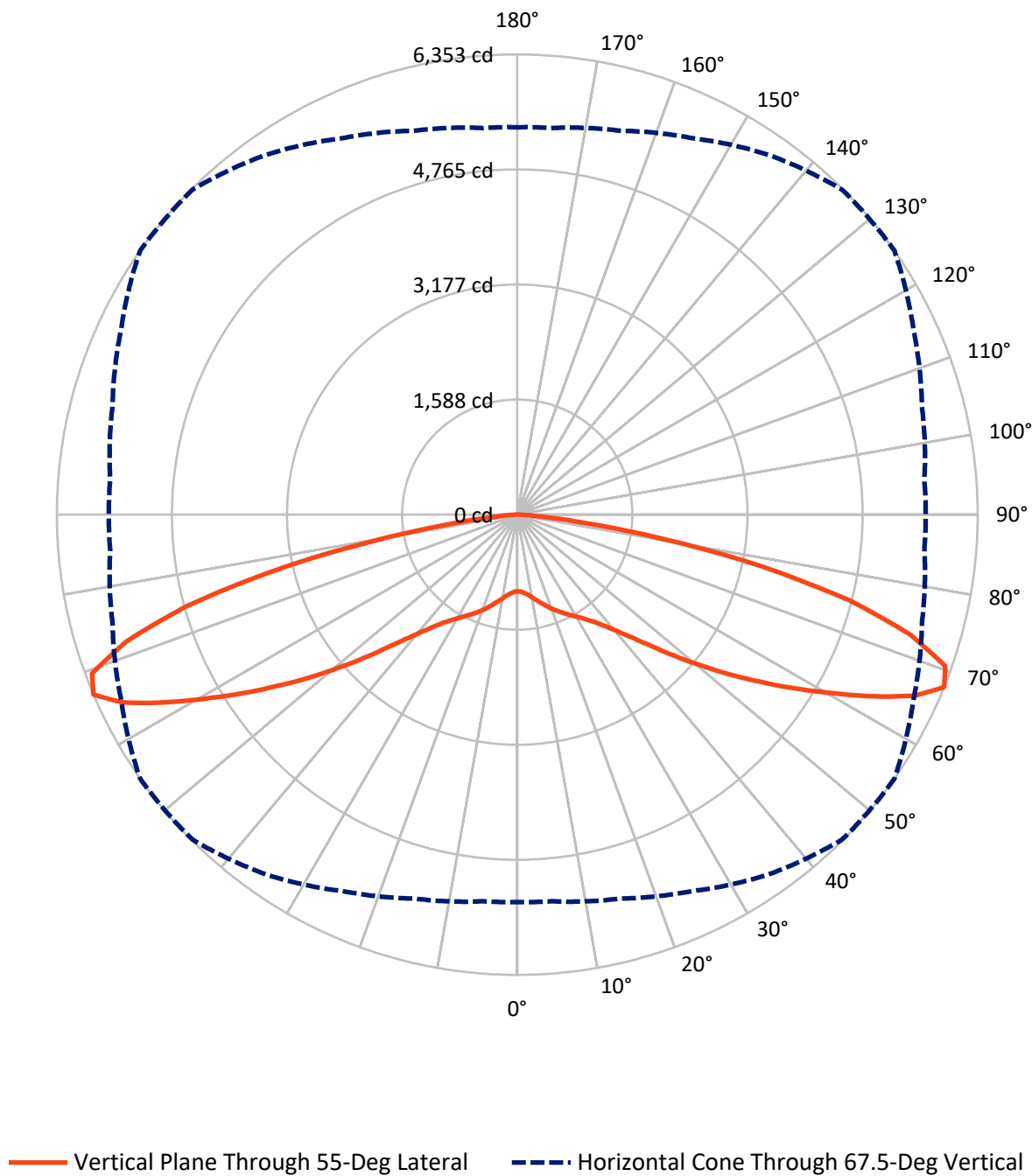


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9123.1	0.0	9123.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9123.1	0.0	9123.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18246.1	0.0	18246.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	0.6
10°-20°	363.0	2.0
20°-30°	698.1	3.8
30°-40°	1143.5	6.3
40°-50°	1987.9	10.9
50°-60°	3548.3	19.4
60°-70°	5478.4	30.0
70°-80°	4434.8	24.3
80°-90°	485.8	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°	18246.1	100.0
0°-180°	18246.1	100.0

Coefficient of Utilization



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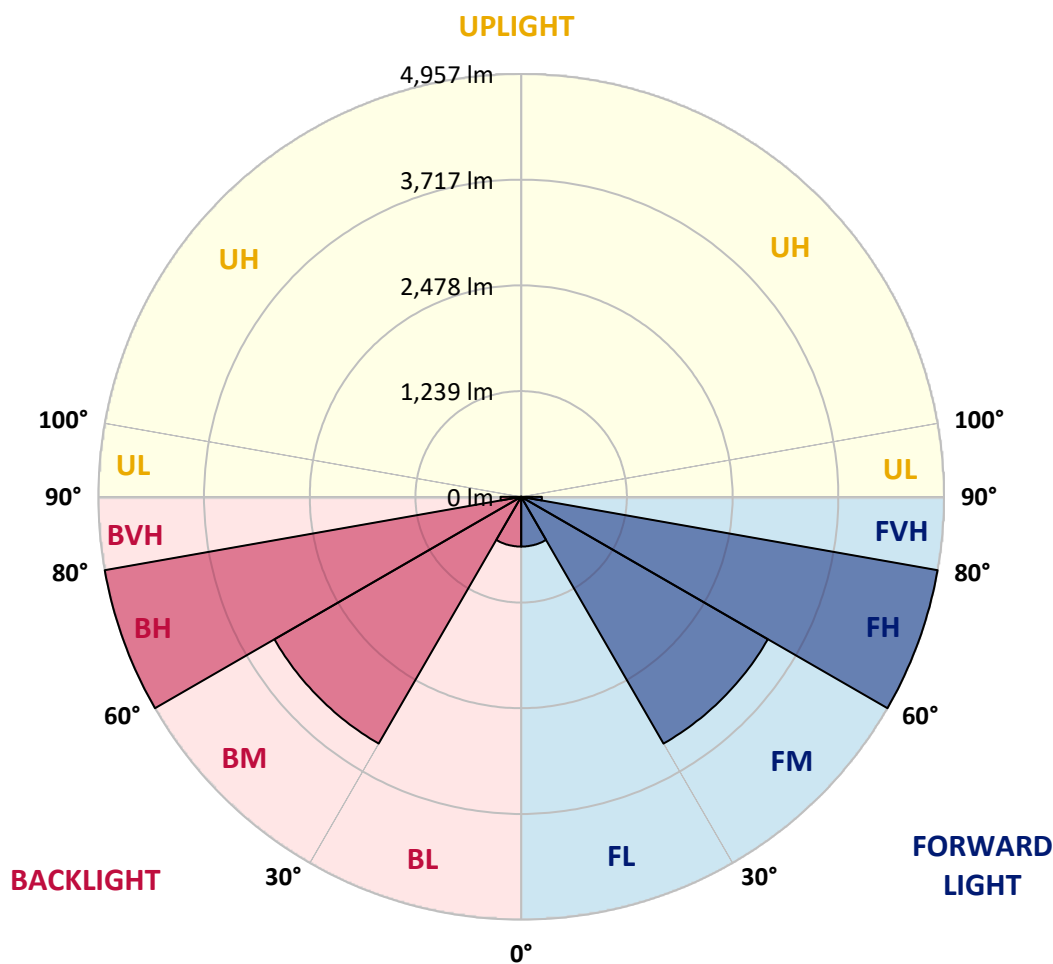
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.7	3.2			
FM	(30°-60°)	3339.9	18.3			
FH	(60°-80°)	4956.6	27.2			G2/5000
FVH	(80°-90°)	242.9	1.3			G3/500
BL	(0°-30°)	583.7	3.2	B2/1000		
BM	(30°-60°)	3339.9	18.3	B3/5000		
BH	(60°-80°)	4956.6	27.2	B4/5000		G2/5000
BVH	(80°-90°)	242.9	1.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1065.6	1066.7	1065.6	1065.6	1064.4	1064.4	1064.4	1065.6	1065.6	1067.9	1066.7
5°	1087.5	1088.7	1086.4	1088.7	1088.7	1089.9	1088.7	1087.5	1088.7	1089.9	1086.4
7.5°	1118.8	1121.1	1119.9	1121.1	1122.2	1121.1	1121.1	1119.9	1122.2	1121.1	1118.8
10°	1159.2	1161.5	1160.4	1162.7	1163.8	1165.0	1165.0	1162.7	1161.5	1161.5	1160.4
12.5°	1207.7	1207.7	1207.7	1211.2	1213.5	1215.8	1214.7	1212.4	1208.9	1210.1	1205.4
15°	1260.9	1263.2	1263.2	1264.4	1270.2	1271.3	1270.2	1266.7	1265.5	1263.2	1260.9
17.5°	1319.8	1321.0	1322.2	1323.3	1330.3	1333.7	1329.1	1323.3	1323.3	1322.2	1322.2
20°	1381.1	1379.9	1382.3	1384.6	1389.2	1392.7	1391.5	1385.7	1381.1	1384.6	1383.4
22.5°	1437.7	1438.9	1440.0	1443.5	1451.6	1452.8	1449.3	1444.7	1438.9	1440.0	1440.0
25°	1490.9	1492.1	1494.4	1499.0	1508.2	1514.0	1509.4	1502.5	1494.4	1494.4	1495.5
27.5°	1545.2	1546.4	1547.5	1555.6	1567.2	1574.1	1570.6	1559.1	1549.8	1547.5	1544.1
30°	1605.3	1605.3	1607.6	1618.0	1633.1	1641.1	1636.5	1622.7	1608.8	1606.5	1606.5
32.5°	1681.6	1677.0	1680.4	1694.3	1710.5	1719.7	1716.3	1700.1	1682.8	1679.3	1679.3
35°	1772.9	1770.6	1772.9	1789.1	1808.7	1822.6	1814.5	1799.5	1781.0	1777.5	1775.2
37.5°	1881.5	1882.7	1889.6	1908.1	1934.7	1952.0	1943.9	1919.7	1897.7	1897.7	1897.7
40°	2019.1	2021.4	2035.2	2063.0	2101.1	2116.2	2106.9	2076.9	2051.4	2042.2	2044.5
42.5°	2206.3	2205.1	2227.1	2261.8	2306.8	2328.8	2313.8	2281.4	2244.4	2229.4	2230.6
45°	2427.0	2443.2	2466.3	2510.3	2566.9	2605.0	2578.4	2542.6	2487.1	2465.2	2464.0
47.5°	2694.0	2711.4	2740.2	2813.1	2881.2	2927.5	2906.7	2847.7	2768.0	2736.8	2725.2
50°	2998.0	3019.9	3056.9	3150.5	3247.6	3299.6	3262.6	3185.2	3099.7	3052.3	3040.7
52.5°	3340.1	3347.0	3402.5	3515.7	3635.9	3699.5	3657.9	3565.4	3455.6	3411.7	3379.4
55°	3719.2	3724.9	3788.5	3916.8	4053.2	4128.3	4075.1	3958.4	3856.7	3780.4	3787.3
57.5°	4070.5	4087.8	4181.4	4331.7	4492.3	4583.6	4525.9	4402.2	4295.9	4209.2	4219.6
60°	4446.1	4464.6	4562.8	4742.0	4959.3	5080.6	5005.5	4872.6	4762.8	4680.7	4670.3
62.5°	4844.8	4855.2	4962.7	5123.4	5400.7	5596.1	5524.4	5377.6	5249.3	5168.4	5160.4
65°	5213.5	5227.4	5318.7	5494.4	5779.8	6065.3	6024.8	5821.4	5648.1	5531.3	5515.2
67.5°	5347.6	5356.8	5485.1	5731.3	6059.5	6341.5	6353.1	6032.9	5781.0	5638.8	5635.4
70°	5190.4	5197.3	5361.5	5653.9	6072.2	6306.8	6265.2	5943.9	5634.2	5459.7	5442.4
72.5°	4837.9	4839.1	4989.3	5237.8	5657.3	5849.2	5672.3	5495.5	5175.4	5044.8	5010.1
75°	4196.5	4197.6	4301.6	4466.9	4766.3	4943.1	4742.0	4580.2	4391.8	4314.4	4273.9
77.5°	2885.9	2903.2	3010.7	3201.4	3529.6	3724.9	3461.4	3167.9	3053.5	2987.6	2948.3
80°	1389.2	1415.8	1539.4	1727.8	2071.1	2383.1	2058.4	1696.6	1473.6	1292.1	1324.5
82.5°	371.0	375.6	481.9	692.3	965.0	1132.6	920.0	643.7	405.7	272.8	249.6
85°	98.2	104.0	145.6	199.9	304.0	387.2	295.9	188.4	143.3	106.3	97.1
87.5°	26.6	31.2	50.9	61.3	76.3	61.3	76.3	65.9	63.6	33.5	24.3
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)