

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: P157366

Luminaire Tested: **VST-F06-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157366
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

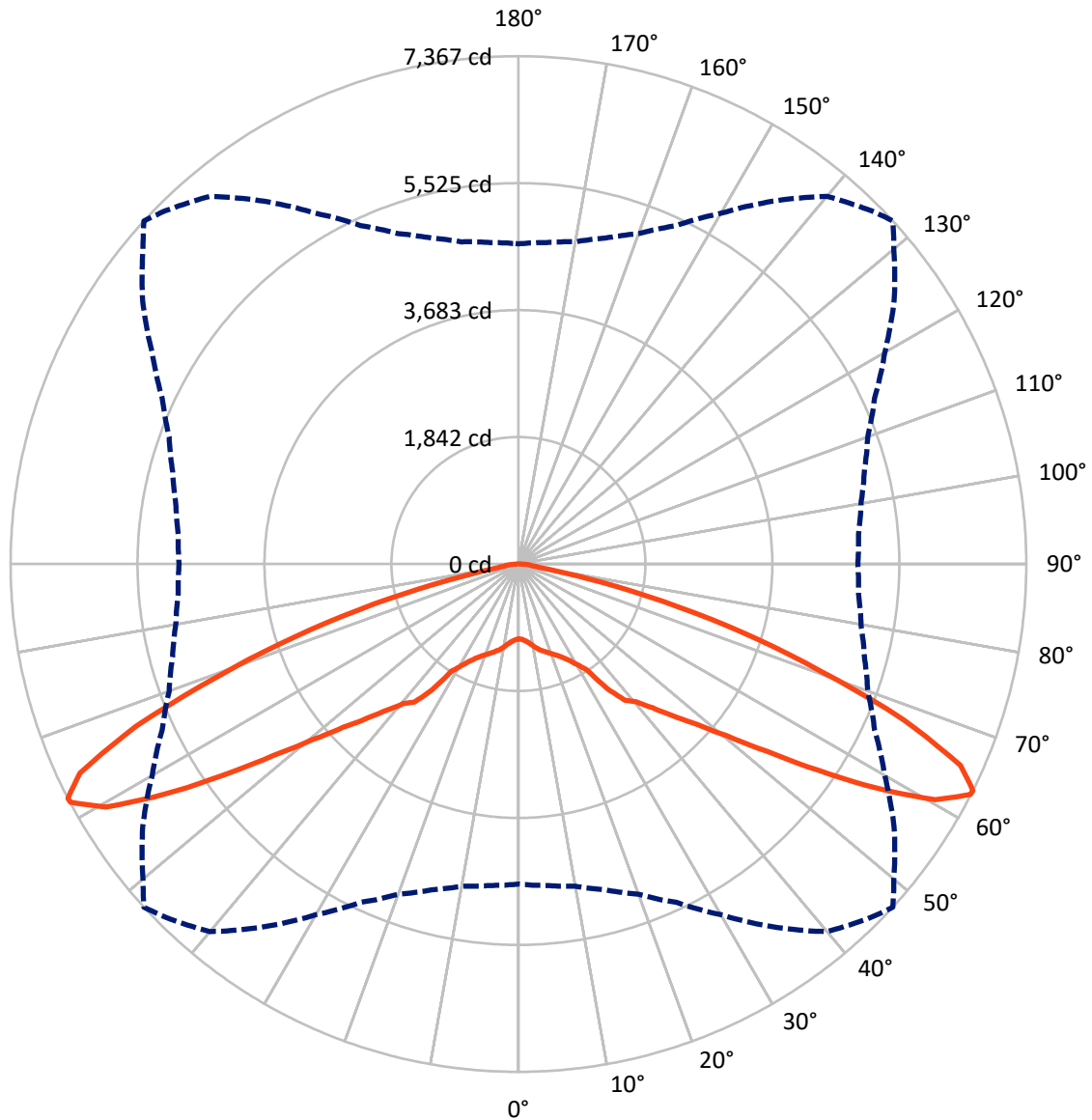
Lumens per Lamp: N/A
Luminaire Lumens: 16258.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.5
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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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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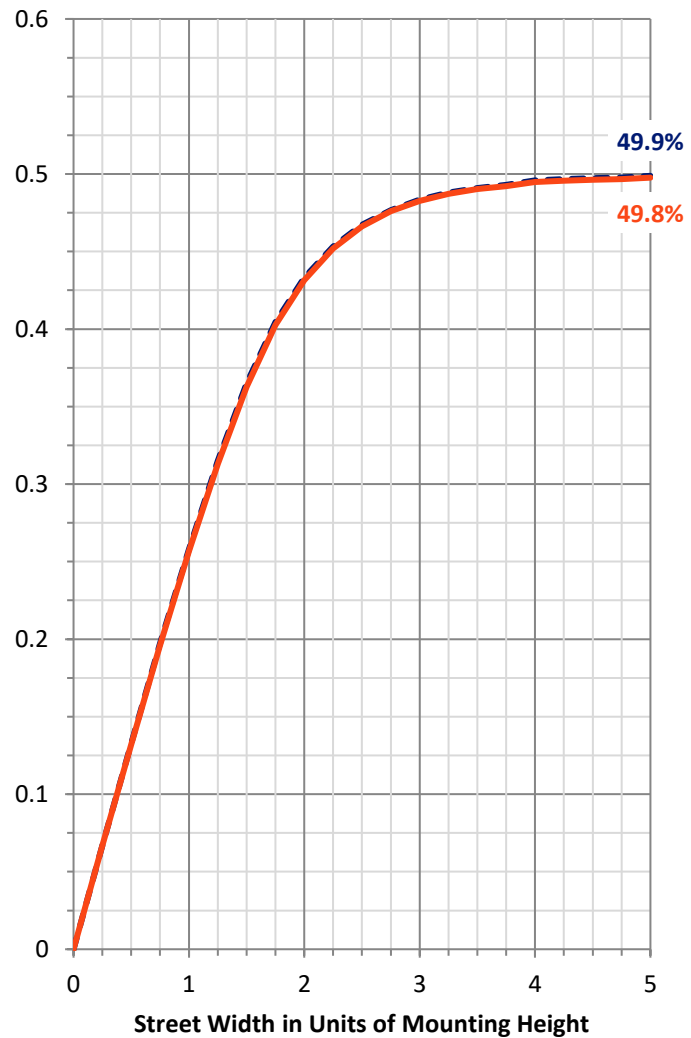
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8129.0	0.0	8129.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8129.0	0.0	8129.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16258.1	0.0	16258.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	0.7
10°-20°	370.5	2.3
20°-30°	708.7	4.4
30°-40°	1355.6	8.3
40°-50°	2345.7	14.4
50°-60°	4212.7	25.9
60°-70°	5122.7	31.5
70°-80°	1850.1	11.4
80°-90°	183.2	1.1
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°	16258.1	100.0
0°-180°	16258.1	100.0



--- HS — SS

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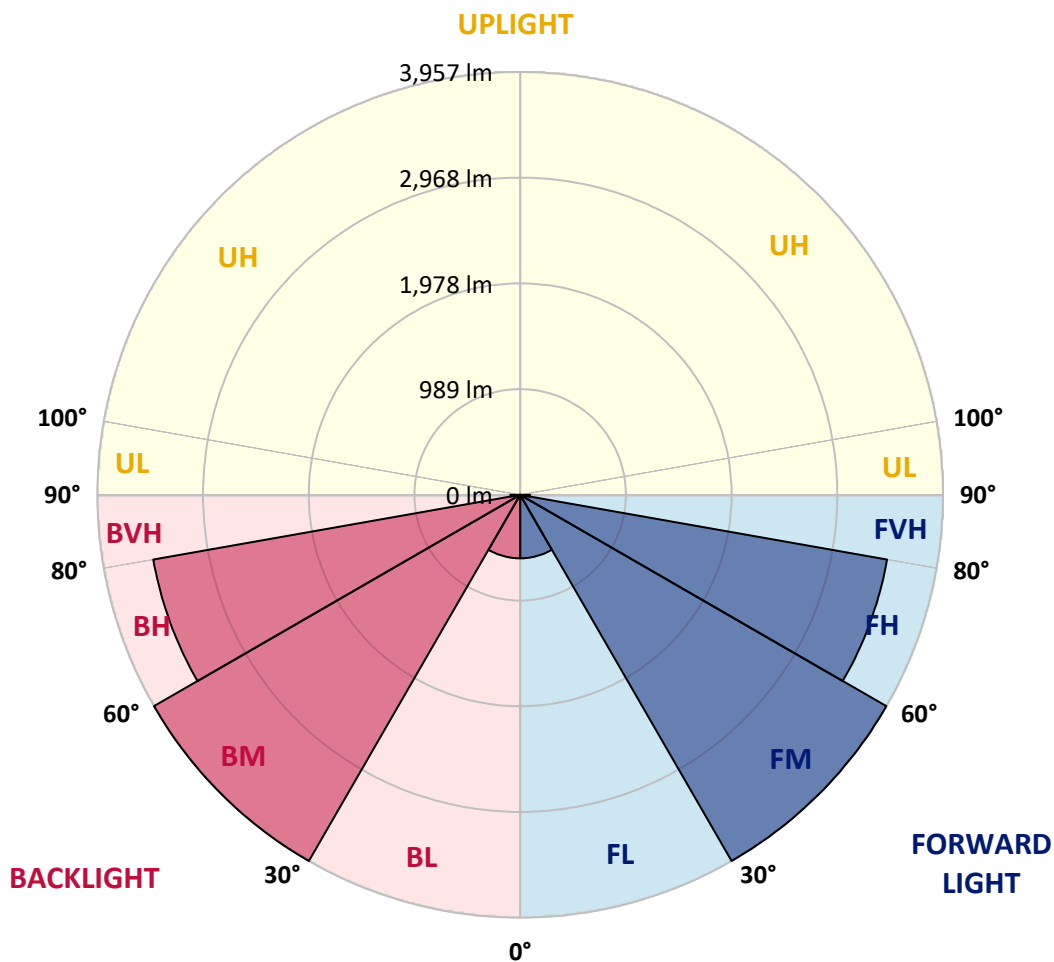
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.1	3.7			
FM	(30°-60°)	3957.0	24.3			
FH	(60°-80°)	3486.4	21.4			G2/5000
FVH	(80°-90°)	91.6	0.6			G1/100
BL	(0°-30°)	594.1	3.7	B2/1000		
BM	(30°-60°)	3957.0	24.3	B3/5000		
BH	(60°-80°)	3486.4	21.4	B4/5000		G2/5000
BVH	(80°-90°)	91.6	0.6			G1/100
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°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6
2.5°	1092.7	1090.7	1091.7	1092.7	1091.7	1090.7	1090.7	1090.7	1092.7	1090.7	1095.8
5°	1114.1	1112.0	1113.1	1113.1	1113.1	1111.0	1111.0	1111.0	1110.0	1111.0	1122.2
7.5°	1154.7	1151.7	1150.7	1152.7	1150.7	1149.7	1148.6	1148.6	1146.6	1146.6	1160.8
10°	1203.5	1199.5	1201.5	1202.5	1199.5	1197.4	1197.4	1197.4	1194.4	1193.4	1211.7
12.5°	1257.4	1255.4	1255.4	1253.3	1252.3	1250.3	1249.3	1250.3	1246.2	1246.2	1264.5
15°	1309.2	1305.2	1306.2	1303.1	1301.1	1299.1	1298.1	1297.0	1295.0	1295.0	1306.2
17.5°	1357.0	1354.0	1352.9	1349.9	1346.9	1343.8	1341.8	1340.8	1337.7	1337.7	1347.9
20°	1406.8	1403.8	1401.7	1396.7	1391.6	1388.5	1384.5	1382.4	1378.4	1379.4	1390.6
22.5°	1463.7	1458.7	1454.6	1450.5	1441.4	1435.3	1430.2	1426.1	1424.1	1424.1	1439.4
25°	1540.0	1536.9	1530.8	1517.6	1506.4	1497.3	1489.2	1485.1	1481.0	1479.0	1502.4
27.5°	1633.5	1630.5	1622.3	1609.1	1593.9	1578.6	1569.5	1562.3	1557.3	1554.2	1587.8
30°	1757.5	1752.4	1745.3	1724.0	1710.8	1687.4	1677.2	1667.0	1655.9	1658.9	1698.6
32.5°	2000.5	1993.3	1971.0	1947.6	1906.9	1875.4	1842.9	1818.5	1795.1	1792.1	1834.8
35°	2221.0	2218.0	2213.9	2197.7	2182.4	2163.1	2147.8	2122.4	2101.1	2096.0	2215.9
37.5°	2340.0	2347.1	2341.0	2338.9	2338.9	2348.1	2376.6	2405.0	2425.3	2437.5	2504.6
40°	2521.9	2521.9	2514.8	2510.7	2502.6	2514.8	2527.0	2548.3	2557.5	2558.5	2626.6
42.5°	2728.3	2729.3	2722.2	2710.0	2705.9	2717.1	2733.3	2753.7	2765.9	2768.9	2848.2
45°	2958.0	2954.9	2948.8	2944.8	2947.8	2958.0	2977.3	3016.9	3035.2	3049.5	3135.9
47.5°	3207.0	3227.4	3210.1	3213.1	3213.1	3244.6	3288.3	3320.9	3350.4	3377.8	3469.3
50°	3533.3	3536.4	3539.4	3548.6	3554.7	3596.3	3651.2	3689.9	3732.6	3768.1	3917.6
52.5°	3969.4	3963.3	3978.5	3988.7	4023.3	4045.6	4137.1	4185.9	4244.9	4290.6	4509.2
55°	4490.9	4487.8	4510.2	4518.3	4564.0	4618.9	4720.6	4827.3	4927.9	4983.9	5282.7
57.5°	4864.9	4873.1	4911.7	4965.6	5055.0	5171.9	5323.4	5559.2	5750.3	5811.3	6140.6
60°	4947.3	4973.7	5031.6	5139.4	5292.9	5510.4	5808.2	6169.1	6518.8	6635.7	6944.7
62.5°	4716.5	4747.0	4832.4	4961.5	5161.7	5484.0	5913.9	6423.2	6942.6	7202.9	7358.4
63°	4643.3	4680.9	4745.0	4894.4	5097.7	5415.9	5873.3	6422.2	6960.9	7244.5	7366.5
65°	4299.8	4306.9	4402.4	4551.8	4780.6	5110.9	5572.4	6206.7	6804.4	7131.7	7047.3
67.5°	3700.0	3729.5	3809.8	3960.2	4182.9	4526.4	5027.6	5614.1	6139.6	6400.8	6023.7
70°	2989.5	2987.5	3087.1	3208.0	3404.2	3706.1	4145.2	4674.8	5091.6	5281.7	4650.4
72.5°	2135.6	2082.8	2156.0	2290.2	2450.8	2691.7	3039.3	3451.0	3824.0	3988.7	3400.2
75°	972.8	958.6	1023.6	1156.8	1319.4	1533.9	1819.5	2175.3	2533.1	2726.2	2166.1
77.5°	327.3	331.4	356.8	404.6	492.0	599.7	777.6	1005.3	1295.0	1486.1	1016.5
80°	219.6	225.7	233.8	240.9	251.1	267.3	306.0	364.9	454.4	549.9	321.2
82.5°	179.9	187.0	205.3	213.5	219.6	224.6	227.7	231.8	231.8	233.8	203.3
85°	129.1	141.3	165.7	180.9	187.0	191.1	196.2	202.3	193.1	185.0	157.6
87.5°	44.7	61.0	89.5	98.6	105.7	106.7	113.8	126.0	119.9	97.6	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6
2.5°	1090.7	1089.7	1090.7	1091.7	1091.7	1091.7	1092.7	1093.7	1093.7
5°	1111.0	1112.0	1111.0	1112.0	1112.0	1113.1	1113.1	1115.1	1115.1
7.5°	1145.6	1147.6	1146.6	1148.6	1148.6	1150.7	1149.7	1152.7	1152.7
10°	1192.3	1194.4	1196.4	1197.4	1196.4	1198.4	1200.5	1201.5	1200.5
12.5°	1245.2	1246.2	1245.2	1247.2	1247.2	1249.3	1249.3	1252.3	1252.3
15°	1294.0	1293.0	1292.0	1295.0	1297.0	1298.1	1300.1	1303.1	1300.1
17.5°	1337.7	1338.7	1336.7	1339.7	1343.8	1346.9	1348.9	1352.9	1351.9
20°	1381.4	1379.4	1381.4	1386.5	1390.6	1394.6	1398.7	1404.8	1403.8
22.5°	1424.1	1426.1	1431.2	1435.3	1442.4	1448.5	1453.6	1461.7	1464.8
25°	1484.1	1484.1	1492.2	1497.3	1507.5	1515.6	1526.8	1535.9	1541.0
27.5°	1560.3	1560.3	1569.5	1580.6	1595.9	1610.1	1622.3	1634.5	1632.5
30°	1664.0	1669.1	1677.2	1691.4	1711.8	1729.1	1745.3	1757.5	1758.5
32.5°	1800.2	1806.3	1830.7	1867.3	1910.0	1942.5	1966.9	1996.4	2000.5
35°	2109.2	2124.5	2156.0	2185.5	2202.7	2222.0	2234.2	2235.3	2237.3
37.5°	2434.5	2408.1	2383.7	2361.3	2351.1	2349.1	2349.1	2353.2	2355.2
40°	2553.4	2540.2	2529.0	2514.8	2518.9	2517.8	2525.0	2531.1	2535.1
42.5°	2756.7	2746.6	2736.4	2718.1	2728.3	2725.2	2735.4	2744.5	2749.6
45°	3040.3	3008.8	2986.4	2957.0	2967.1	2961.0	2961.0	2972.2	2974.3
47.5°	3353.4	3316.8	3271.1	3234.5	3222.3	3211.1	3221.3	3221.3	3210.1
50°	3728.5	3684.8	3630.9	3571.9	3551.6	3540.4	3544.5	3549.6	3518.1
52.5°	4237.7	4189.0	4112.7	4023.3	4004.0	3994.8	3992.8	3985.7	3977.5
55°	4927.9	4836.5	4742.9	4625.0	4589.5	4579.3	4580.3	4572.2	4591.5
57.5°	5742.2	5608.0	5392.5	5249.2	5163.8	5131.2	5101.8	5089.6	5090.6
60°	6548.2	6274.8	5952.6	5702.5	5523.6	5409.8	5320.3	5270.5	5256.3
62.5°	7067.7	6637.7	6153.8	5748.3	5454.5	5266.4	5125.1	5035.7	5007.2
63°	7108.3	6652.9	6135.5	5700.5	5391.5	5194.3	5045.9	4953.4	4922.9
65°	7019.9	6499.4	5896.7	5378.3	5039.8	4821.2	4660.6	4573.2	4549.8
67.5°	6332.7	5899.7	5285.8	4750.1	4408.5	4186.9	4002.9	3919.6	3893.2
70°	5151.6	4854.8	4351.6	3894.2	3576.0	3362.6	3176.5	3107.4	3106.4
72.5°	3819.0	3433.7	3133.8	2798.4	2520.9	2351.1	2189.5	2112.3	2073.6
75°	2526.0	2113.3	1777.8	1495.3	1218.8	1066.3	884.3	806.1	760.3
77.5°	1272.6	943.3	676.0	468.6	363.9	298.8	273.4	260.2	259.2
80°	423.9	318.2	273.4	256.2	251.1	252.1	249.0	244.0	237.9
82.5°	234.8	247.0	249.0	241.9	241.9	237.9	233.8	214.5	204.3
85°	201.3	221.6	223.6	219.6	218.5	212.4	205.3	178.9	163.7
87.5°	126.0	145.4	142.3	127.1	140.3	131.1	124.0	80.3	59.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)