

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: P157546

Luminaire Tested: **VST-F02-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157546
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-F02-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5349.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 55
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



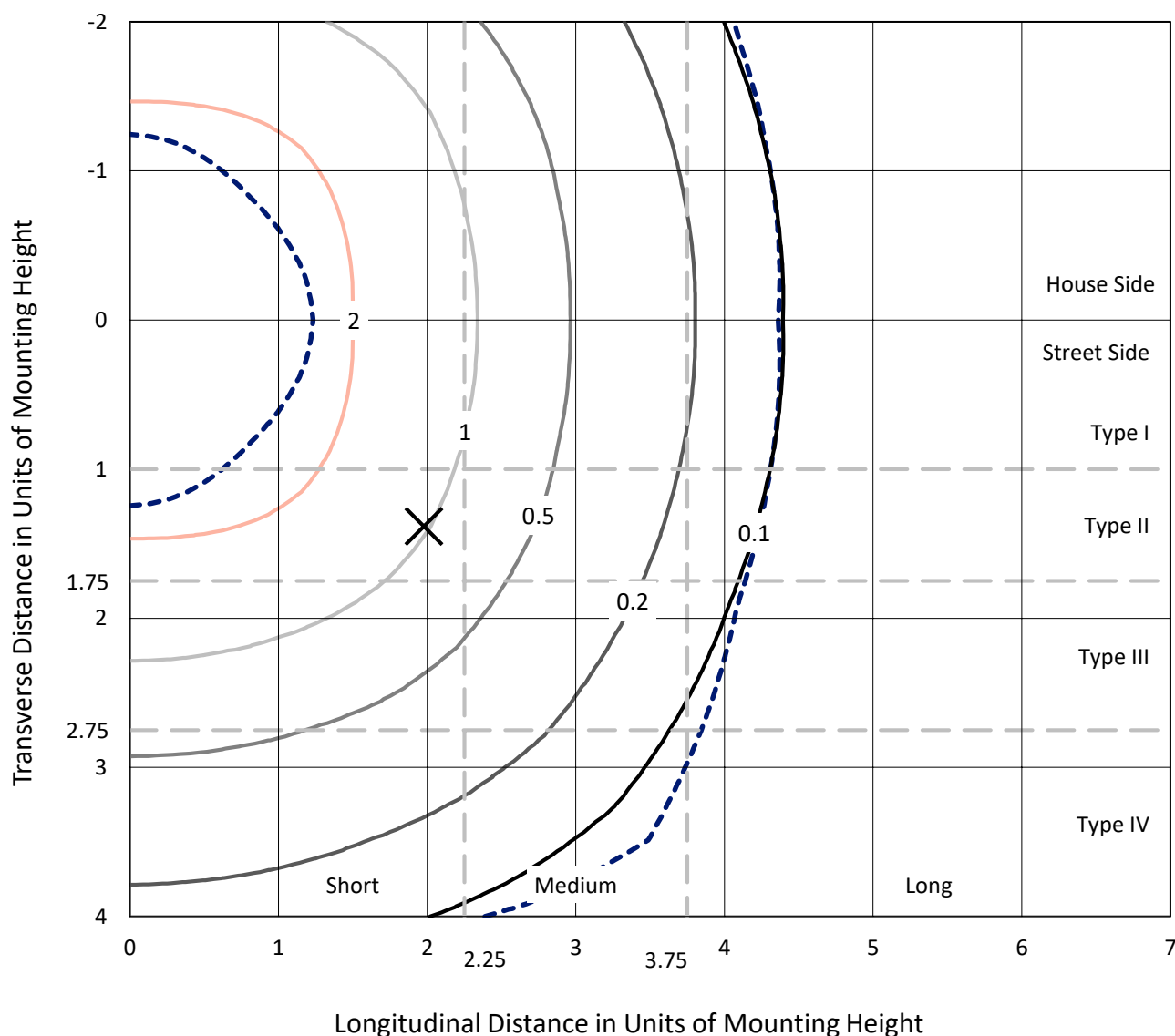
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

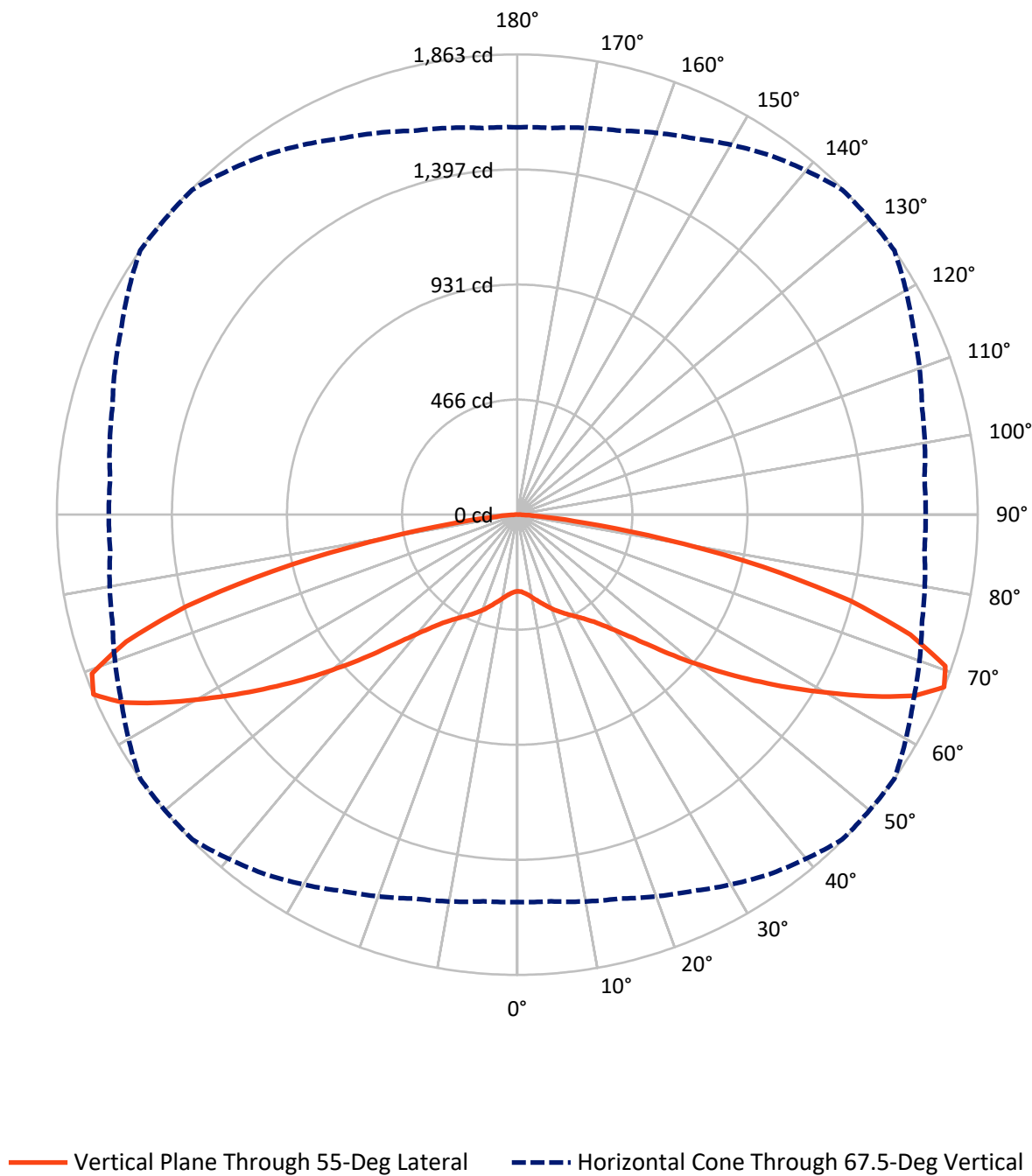


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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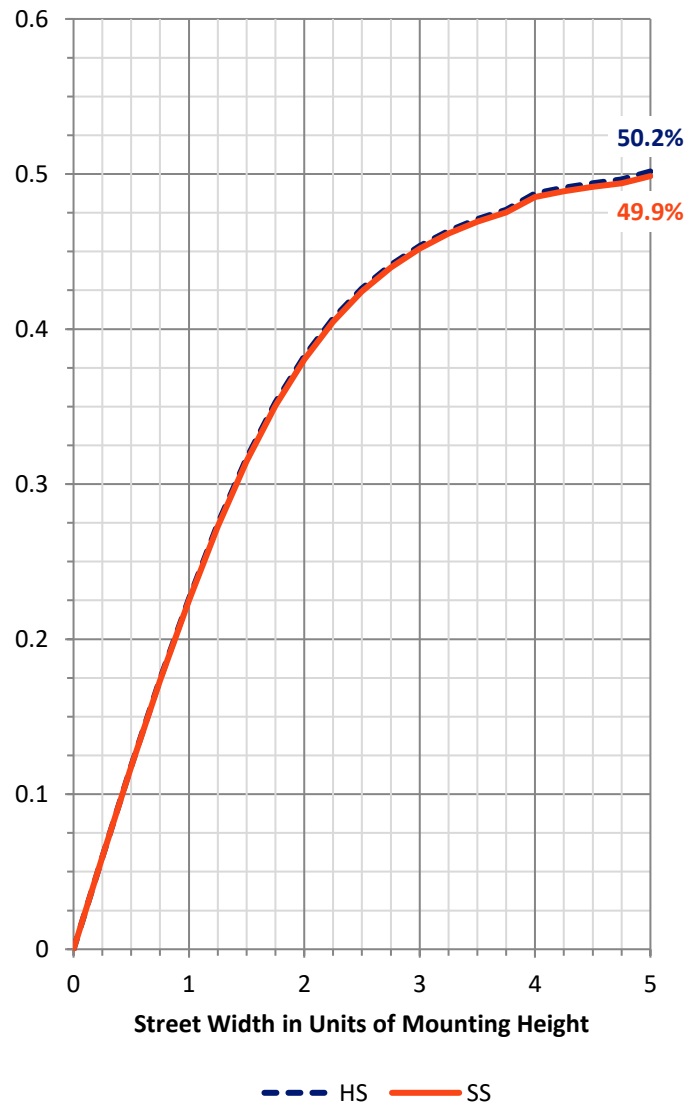
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.6	0.0	2674.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2674.6	0.0	2674.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5349.3	0.0	5349.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	0.6
10°-20°	106.4	2.0
20°-30°	204.7	3.8
30°-40°	335.3	6.3
40°-50°	582.8	10.9
50°-60°	1040.3	19.4
60°-70°	1606.1	30.0
70°-80°	1300.2	24.3
80°-90°	142.4	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°	5349.3	100.0
0°-180°	5349.3	100.0

Coefficient of Utilization



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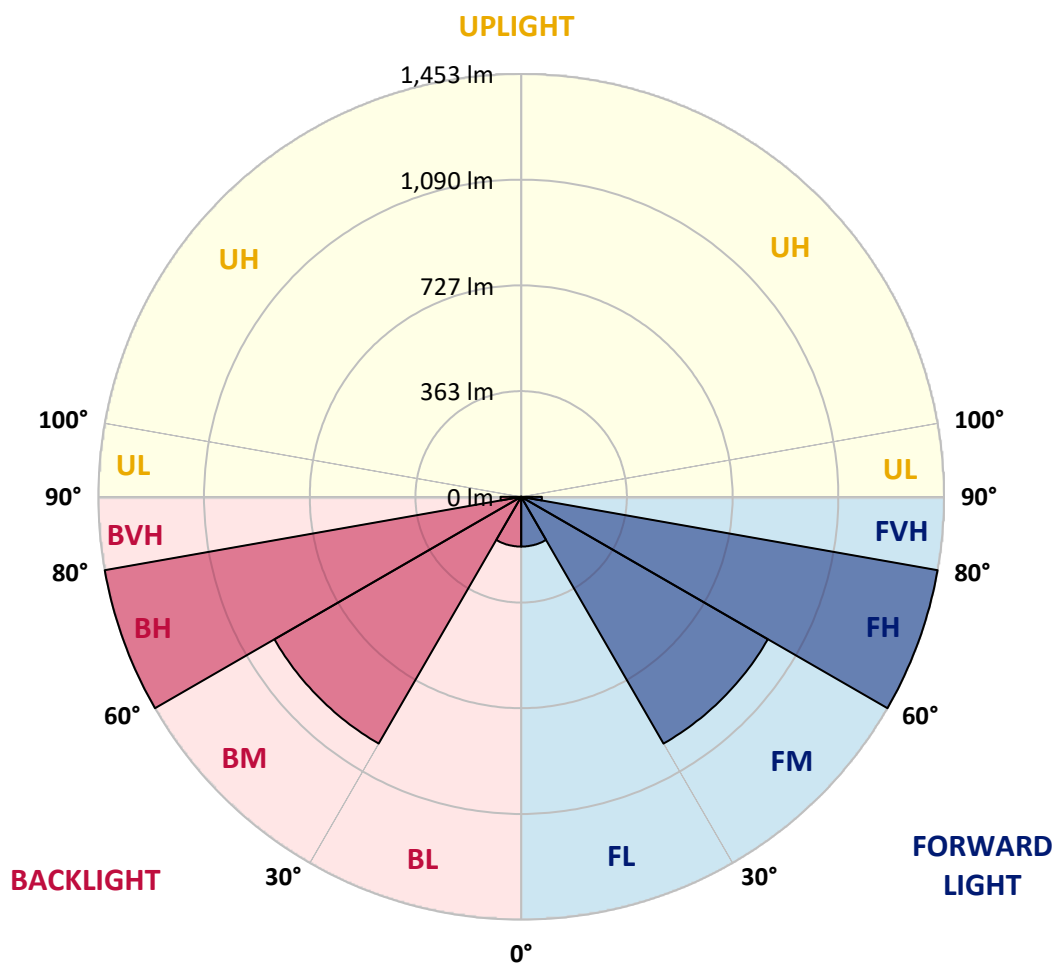
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.1	3.2			
FM	(30°-60°)	979.2	18.3			
FH	(60°-80°)	1453.1	27.2			G1/1800
FVH	(80°-90°)	71.2	1.3			G1/100
BL	(0°-30°)	171.1	3.2	B1/500		
BM	(30°-60°)	979.2	18.3	B1/1000		
BH	(60°-80°)	1453.1	27.2	B3/2500		G1/1800
BVH	(80°-90°)	71.2	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4
2.5°	312.4	312.7	312.4	312.4	312.1	312.1	312.1	312.4	312.4	313.1	312.7
5°	318.8	319.2	318.5	319.2	319.2	319.5	319.2	318.8	319.2	319.5	318.5
7.5°	328.0	328.7	328.3	328.7	329.0	328.7	328.7	328.3	329.0	328.7	328.0
10°	339.8	340.5	340.2	340.9	341.2	341.5	341.5	340.9	340.5	340.5	340.2
12.5°	354.1	354.1	354.1	355.1	355.8	356.5	356.1	355.4	354.4	354.8	353.4
15°	369.7	370.3	370.3	370.7	372.4	372.7	372.4	371.3	371.0	370.3	369.7
17.5°	386.9	387.3	387.6	388.0	390.0	391.0	389.6	388.0	388.0	387.6	387.6
20°	404.9	404.6	405.2	405.9	407.3	408.3	407.9	406.3	404.9	405.9	405.6
22.5°	421.5	421.9	422.2	423.2	425.6	425.9	424.9	423.5	421.9	422.2	422.2
25°	437.1	437.4	438.1	439.4	442.2	443.9	442.5	440.5	438.1	438.1	438.4
27.5°	453.0	453.4	453.7	456.1	459.5	461.5	460.5	457.1	454.4	453.7	452.7
30°	470.6	470.6	471.3	474.4	478.7	481.1	479.8	475.7	471.7	471.0	471.0
32.5°	493.0	491.6	492.7	496.7	501.5	504.2	503.2	498.4	493.3	492.3	492.3
35°	519.8	519.1	519.8	524.5	530.3	534.4	532.0	527.6	522.1	521.1	520.4
37.5°	551.6	551.9	554.0	559.4	567.2	572.3	569.9	562.8	556.4	556.4	556.4
40°	592.0	592.6	596.7	604.8	616.0	620.4	617.7	608.9	601.4	598.7	599.4
42.5°	646.8	646.5	652.9	663.1	676.3	682.7	678.4	668.9	658.0	653.6	653.9
45°	711.5	716.3	723.1	736.0	752.5	763.7	755.9	745.4	729.2	722.7	722.4
47.5°	789.8	794.9	803.3	824.7	844.7	858.2	852.2	834.9	811.5	802.4	799.0
50°	878.9	885.4	896.2	923.6	952.1	967.4	956.5	933.8	908.8	894.8	891.5
52.5°	979.2	981.2	997.5	1030.7	1066.0	1084.6	1072.4	1045.3	1013.1	1000.2	990.7
55°	1090.4	1092.1	1110.7	1148.3	1188.3	1210.3	1194.7	1160.5	1130.7	1108.3	1110.4
57.5°	1193.3	1198.4	1225.9	1270.0	1317.1	1343.8	1326.8	1290.6	1259.5	1234.0	1237.1
60°	1303.5	1308.9	1337.7	1390.2	1453.9	1489.5	1467.5	1428.5	1396.3	1372.3	1369.2
62.5°	1420.4	1423.4	1454.9	1502.0	1583.3	1640.6	1619.6	1576.6	1538.9	1515.2	1512.9
65°	1528.4	1532.5	1559.3	1610.8	1694.5	1778.2	1766.3	1706.7	1655.9	1621.6	1616.9
67.5°	1567.7	1570.5	1608.1	1680.2	1776.5	1859.2	1862.5	1768.7	1694.8	1653.2	1652.2
70°	1521.7	1523.7	1571.8	1657.6	1780.2	1849.0	1836.8	1742.6	1651.8	1600.6	1595.6
72.5°	1418.3	1418.7	1462.7	1535.6	1658.6	1714.8	1663.0	1611.1	1517.3	1479.0	1468.8
75°	1230.3	1230.7	1261.1	1309.6	1397.3	1449.2	1390.2	1342.8	1287.5	1264.9	1253.0
77.5°	846.1	851.2	882.7	938.6	1034.8	1092.1	1014.8	928.7	895.2	875.9	864.4
80°	407.3	415.1	451.3	506.6	607.2	698.6	603.5	497.4	432.0	378.8	388.3
82.5°	108.8	110.1	141.3	203.0	282.9	332.0	269.7	188.7	118.9	80.0	73.2
85°	28.8	30.5	42.7	58.6	89.1	113.5	86.8	55.2	42.0	31.2	28.4
87.5°	7.8	9.1	14.9	17.9	22.4	17.9	22.4	19.3	18.7	9.8	7.1
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)