

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: P157545

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157545
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5213.2 lumens
Efficiency: N/A
Efficacy: 94.8 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



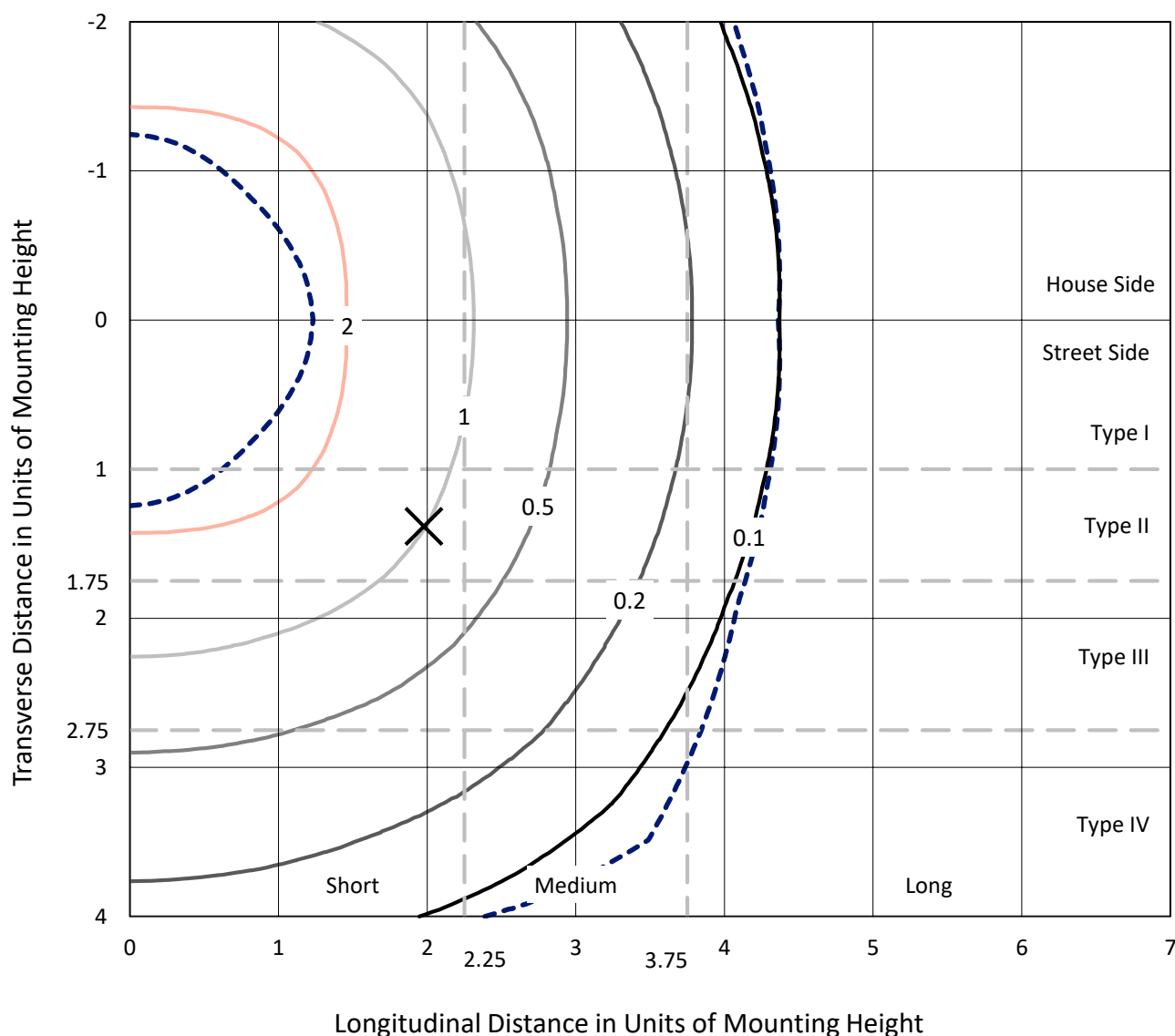
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

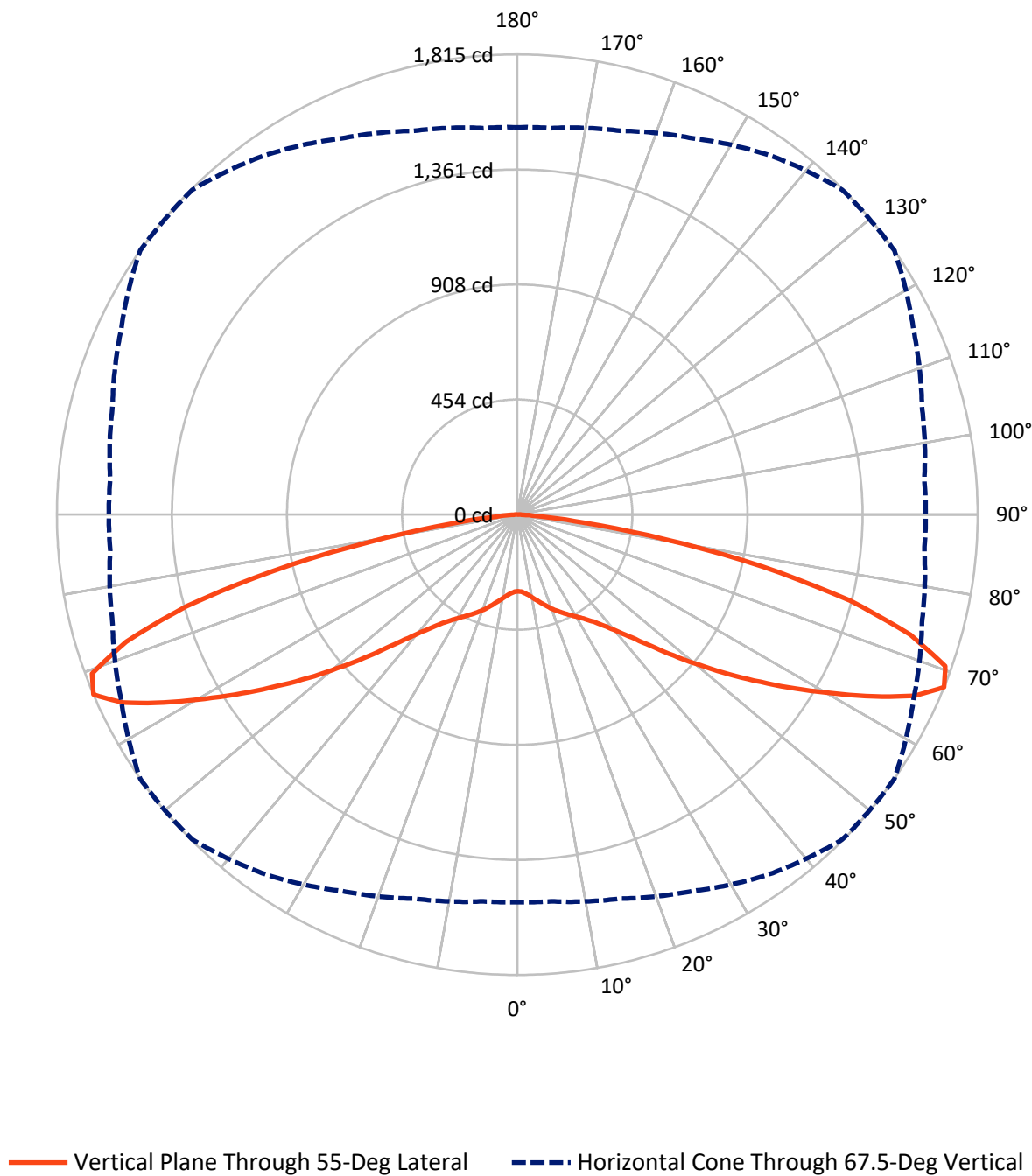


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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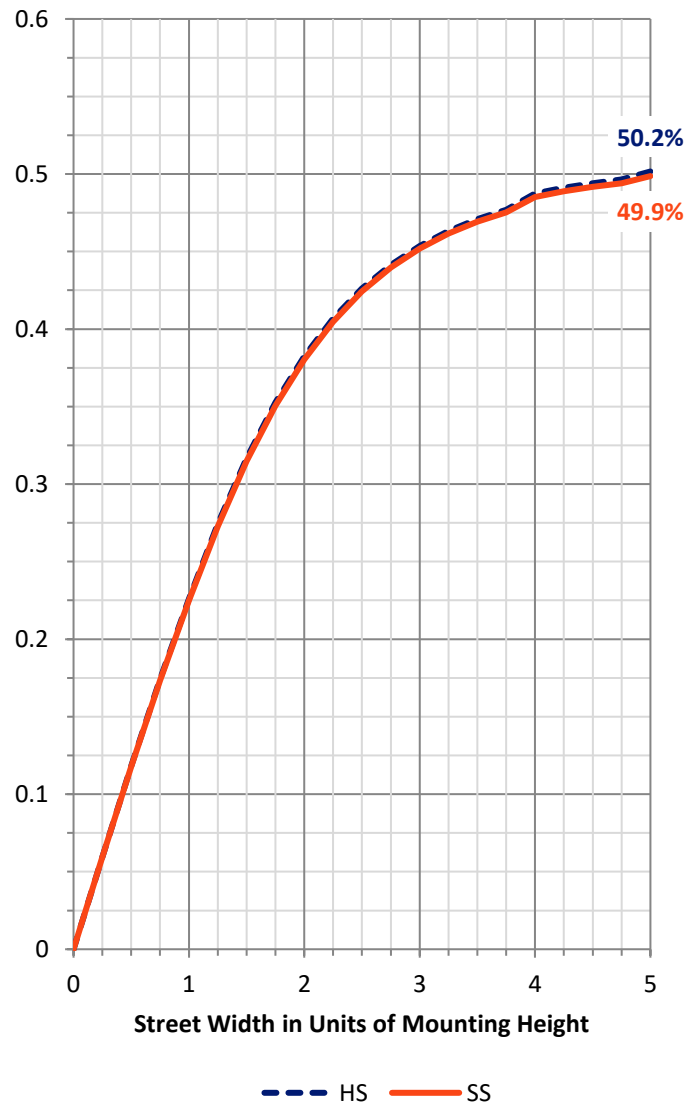
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2606.6	0.0	2606.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2606.6	0.0	2606.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5213.2	0.0	5213.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	0.6
10°-20°	103.7	2.0
20°-30°	199.4	3.8
30°-40°	326.7	6.3
40°-50°	568.0	10.9
50°-60°	1013.8	19.4
60°-70°	1565.3	30.0
70°-80°	1267.1	24.3
80°-90°	138.8	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°	5213.2	100.0
0°-180°	5213.2	100.0

Coefficient of Utilization



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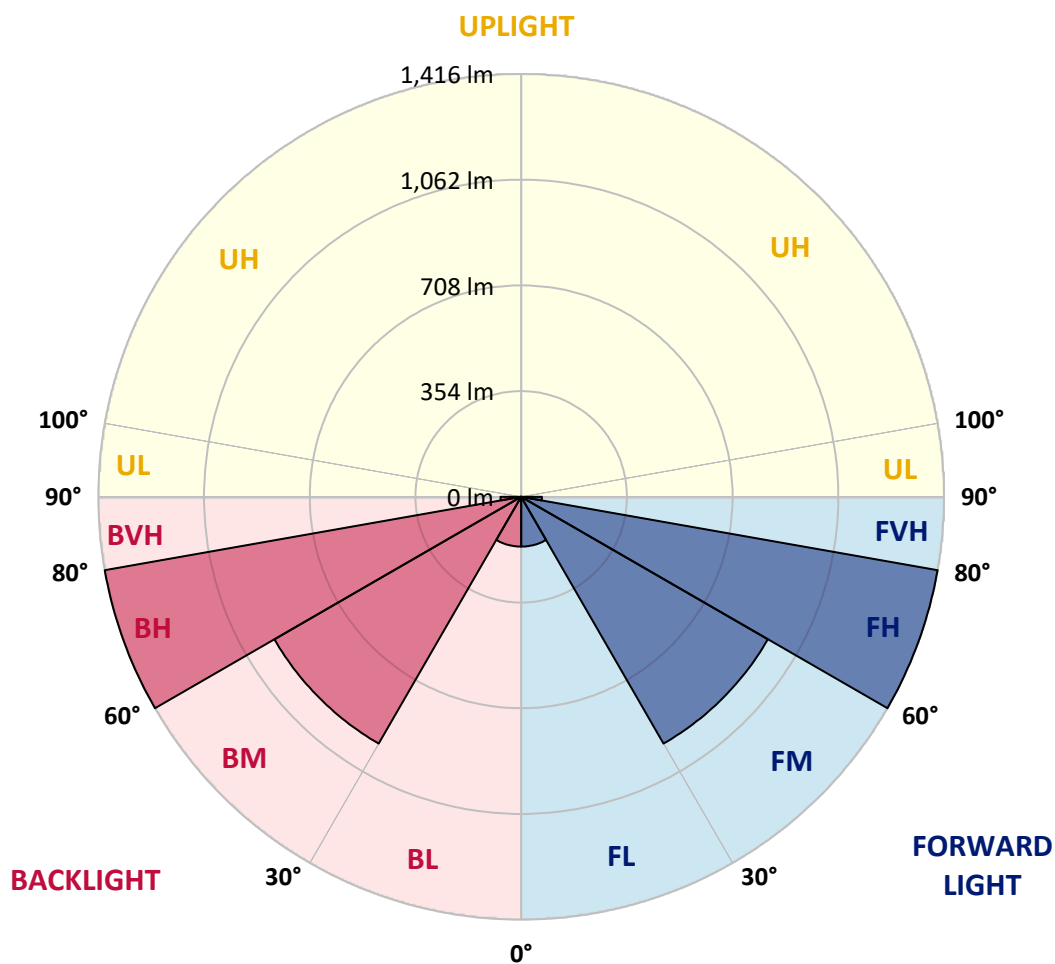
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.8	3.2			
FM	(30°-60°)	954.3	18.3			
FH	(60°-80°)	1416.2	27.2			G1/1800
FVH	(80°-90°)	69.4	1.3			G1/100
BL	(0°-30°)	166.8	3.2	B1/500		
BM	(30°-60°)	954.3	18.3	B1/1000		
BH	(60°-80°)	1416.2	27.2	B3/2500		G1/1800
BVH	(80°-90°)	69.4	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°	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5
2.5°	304.4	304.8	304.4	304.4	304.1	304.1	304.1	304.4	304.4	305.1	304.8
5°	310.7	311.0	310.4	311.0	311.0	311.4	311.0	310.7	311.0	311.4	310.4
7.5°	319.6	320.3	320.0	320.3	320.6	320.3	320.3	320.0	320.6	320.3	319.6
10°	331.2	331.9	331.6	332.2	332.5	332.9	332.9	332.2	331.9	331.9	331.6
12.5°	345.1	345.1	345.1	346.1	346.7	347.4	347.0	346.4	345.4	345.7	344.4
15°	360.2	360.9	360.9	361.3	362.9	363.2	362.9	361.9	361.6	360.9	360.2
17.5°	377.1	377.4	377.8	378.1	380.1	381.1	379.7	378.1	378.1	377.8	377.8
20°	394.6	394.3	394.9	395.6	396.9	397.9	397.6	395.9	394.6	395.6	395.3
22.5°	410.8	411.1	411.4	412.4	414.7	415.1	414.1	412.7	411.1	411.4	411.4
25°	426.0	426.3	427.0	428.3	430.9	432.6	431.3	429.3	427.0	427.0	427.3
27.5°	441.5	441.8	442.1	444.5	447.8	449.8	448.7	445.4	442.8	442.1	441.2
30°	458.6	458.6	459.3	462.3	466.6	468.9	467.6	463.6	459.7	459.0	459.0
32.5°	480.5	479.2	480.1	484.1	488.7	491.3	490.4	485.8	480.8	479.8	479.8
35°	506.5	505.9	506.5	511.1	516.8	520.7	518.4	514.1	508.9	507.8	507.2
37.5°	537.6	537.9	539.9	545.2	552.8	557.7	555.4	548.5	542.2	542.2	542.2
40°	576.9	577.6	581.5	589.4	600.3	604.6	602.0	593.4	586.1	583.5	584.2
42.5°	630.4	630.1	636.3	646.2	659.1	665.4	661.1	651.8	641.3	637.0	637.3
45°	693.4	698.0	704.6	717.2	733.4	744.3	736.7	726.5	710.6	704.3	704.0
47.5°	769.7	774.7	782.9	803.8	823.2	836.4	830.5	813.7	790.9	781.9	778.6
50°	856.6	862.9	873.4	900.2	927.9	942.7	932.2	910.1	885.6	872.1	868.8
52.5°	954.3	956.3	972.1	1004.5	1038.8	1057.0	1045.1	1018.7	987.3	974.8	965.5
55°	1062.6	1064.3	1082.4	1119.1	1158.1	1179.5	1164.3	1130.9	1101.9	1080.1	1082.1
57.5°	1163.0	1168.0	1194.7	1237.6	1283.5	1309.6	1293.1	1257.8	1227.4	1202.6	1205.6
60°	1270.3	1275.6	1303.7	1354.9	1417.0	1451.6	1430.2	1392.2	1360.8	1337.3	1334.4
62.5°	1384.3	1387.2	1417.9	1463.8	1543.1	1598.9	1578.4	1536.5	1499.8	1476.7	1474.4
65°	1489.6	1493.5	1519.6	1569.8	1651.4	1732.9	1721.4	1663.3	1613.8	1580.4	1575.8
67.5°	1527.9	1530.5	1567.2	1637.5	1731.3	1811.9	1815.2	1723.7	1651.7	1611.1	1610.1
70°	1483.0	1484.9	1531.9	1615.4	1734.9	1802.0	1790.0	1698.2	1609.8	1559.9	1555.0
72.5°	1382.3	1382.6	1425.5	1496.5	1616.4	1671.2	1620.7	1570.1	1478.7	1441.4	1431.5
75°	1199.0	1199.3	1229.0	1276.3	1361.8	1412.3	1354.9	1308.6	1254.8	1232.7	1221.1
77.5°	824.5	829.5	860.2	914.7	1008.5	1064.3	989.0	905.1	872.4	853.6	842.3
80°	396.9	404.5	439.9	493.7	591.7	680.9	588.1	484.7	421.0	369.2	378.4
82.5°	106.0	107.3	137.7	197.8	275.7	323.6	262.9	183.9	115.9	77.9	71.3
85°	28.1	29.7	41.6	57.1	86.8	110.6	84.5	53.8	40.9	30.4	27.7
87.5°	7.6	8.9	14.5	17.5	21.8	17.5	21.8	18.8	18.2	9.6	7.0
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)