

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: P157540

Luminaire Tested: **VST-E02-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157540
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-E02-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6315 lumens
Efficiency: N/A
Efficacy: 121.2 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): 52.1
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



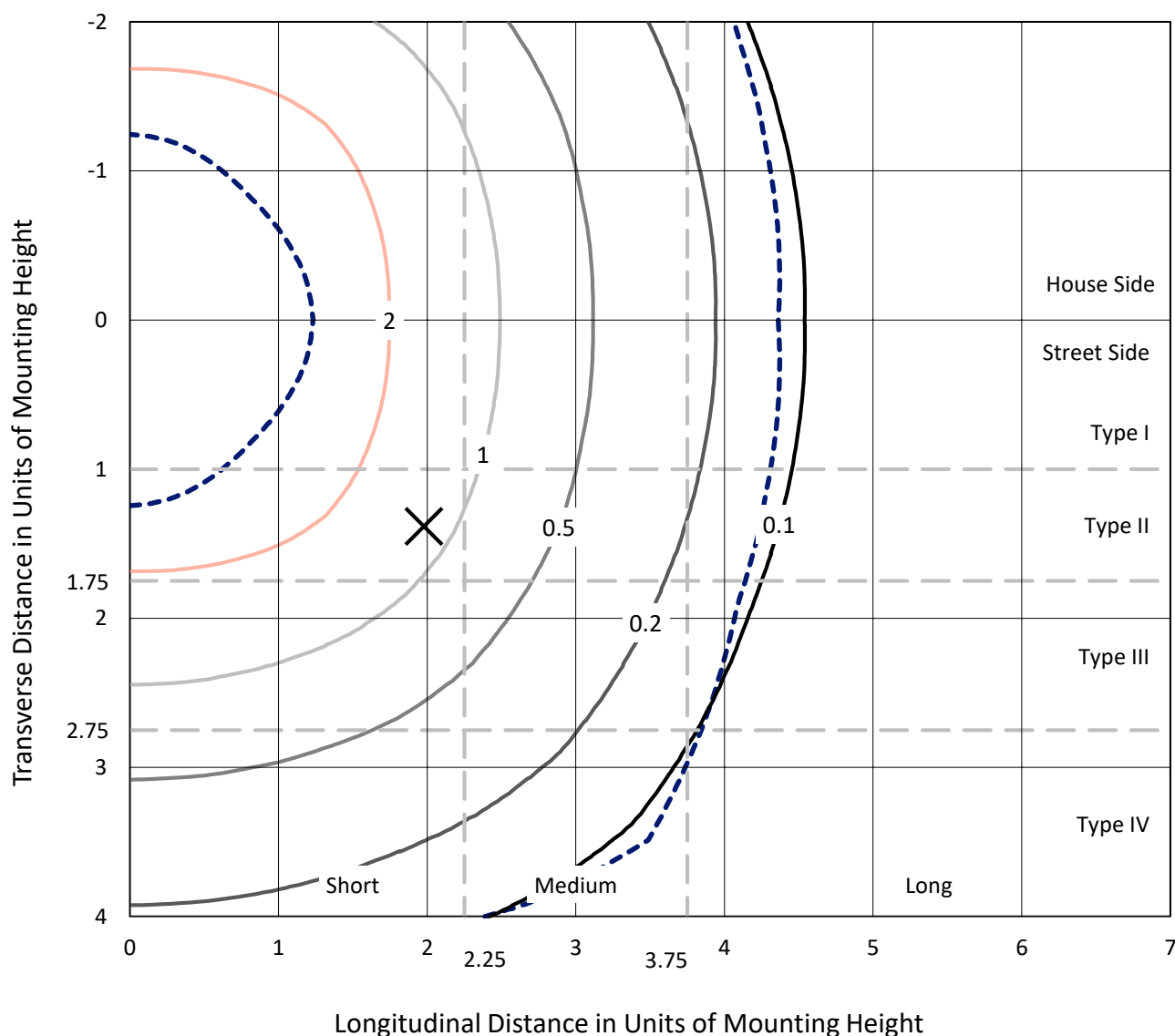
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



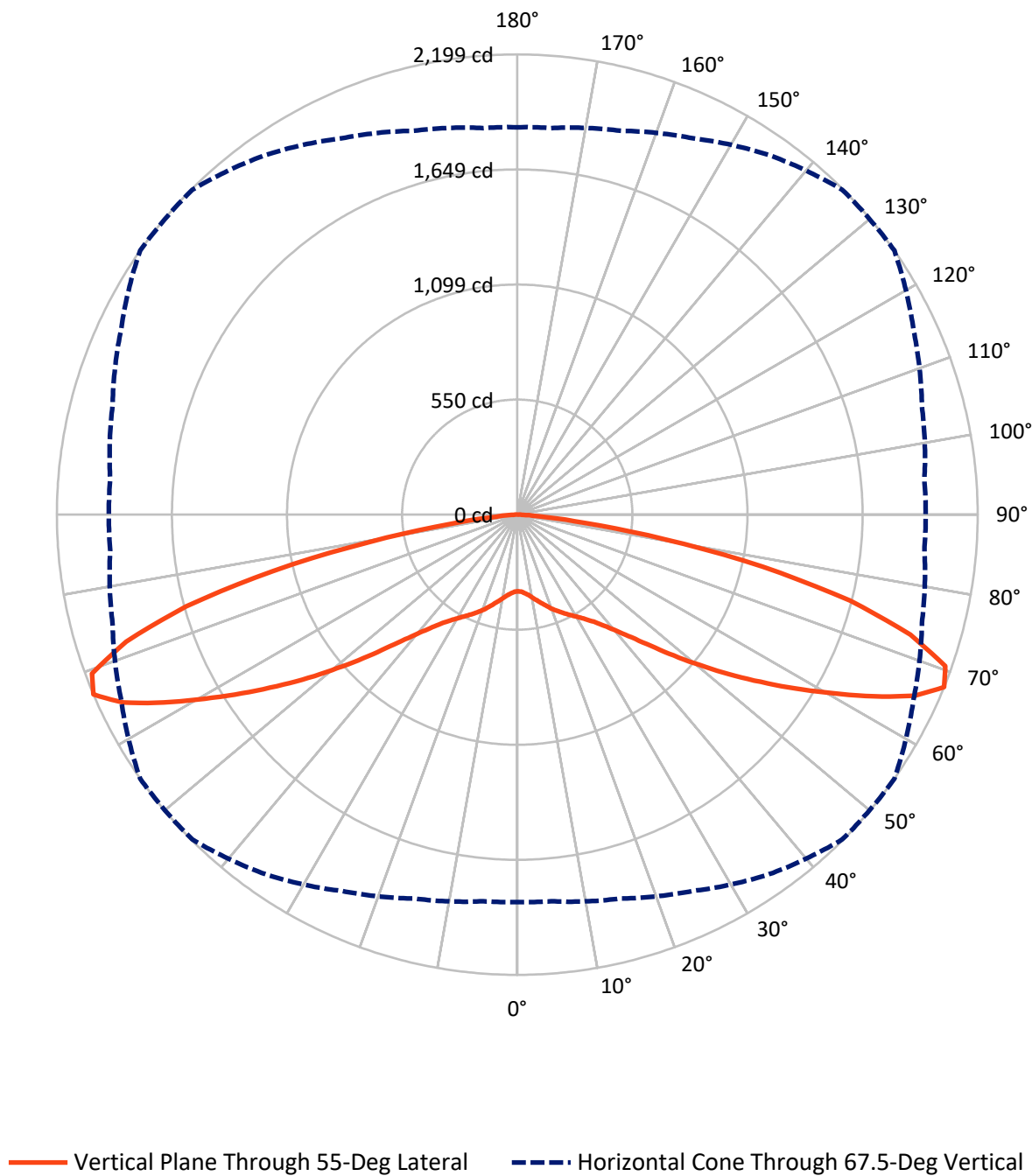
Based on 10 foot mounting height. Maximum calculated value = 4 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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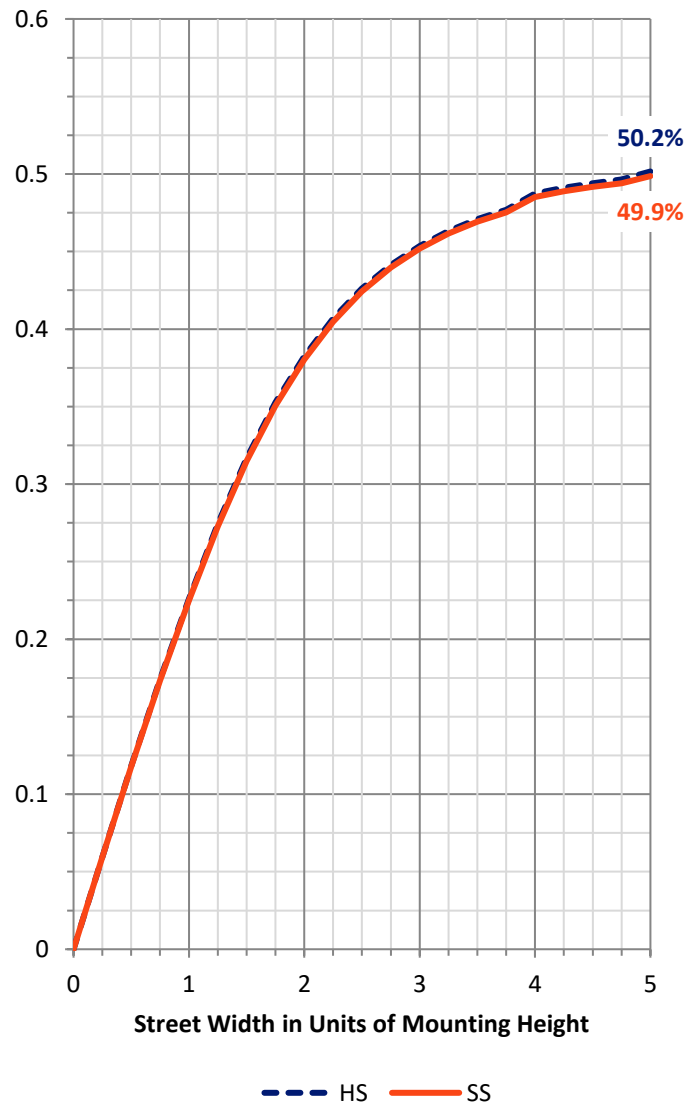
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3157.5	0.0	3157.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3157.5	0.0	3157.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6315.0	0.0	6315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	0.6
10°-20°	125.6	2.0
20°-30°	241.6	3.8
30°-40°	395.8	6.3
40°-50°	688.0	10.9
50°-60°	1228.1	19.4
60°-70°	1896.1	30.0
70°-80°	1534.9	24.3
80°-90°	168.1	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°	6315.0	100.0
0°-180°	6315.0	100.0

Coefficient of Utilization



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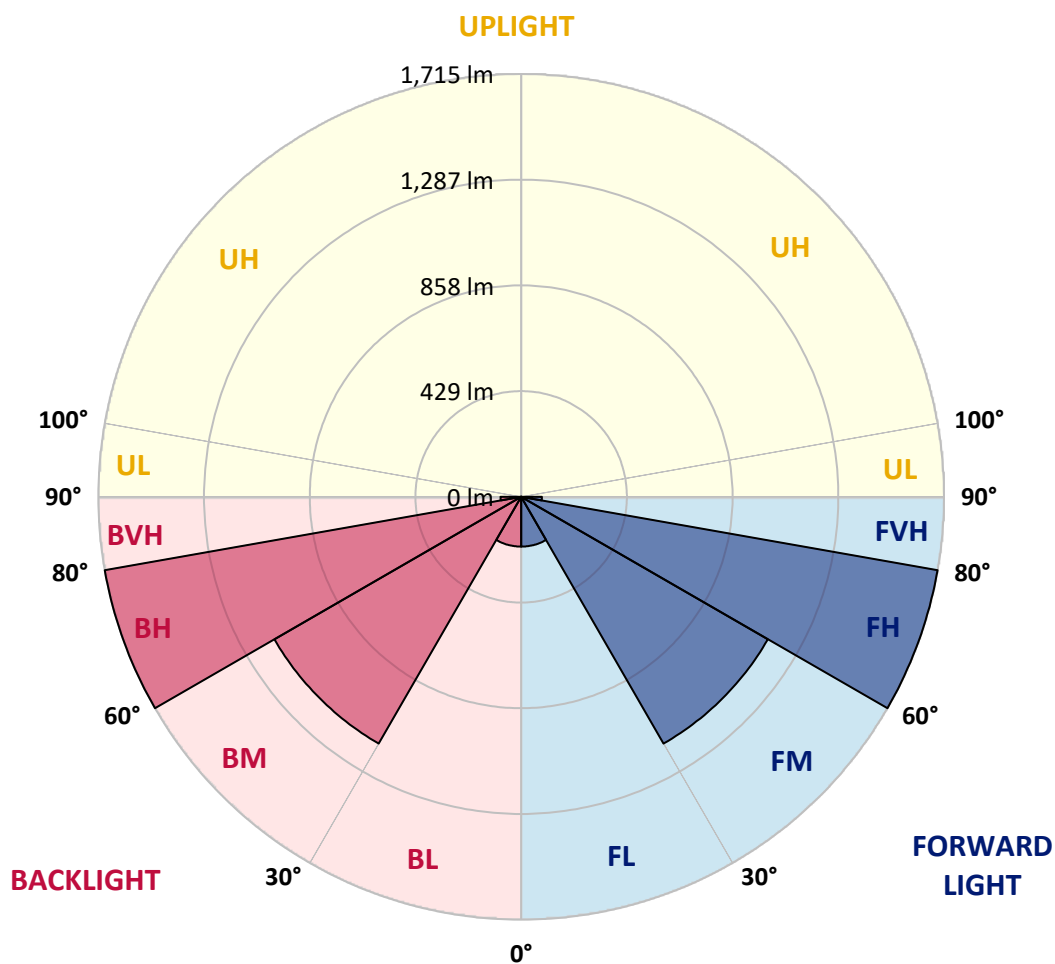
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.0	3.2			
FM	(30°-60°)	1155.9	18.3			
FH	(60°-80°)	1715.5	27.2			G1/1800
FVH	(80°-90°)	84.1	1.3			G1/100
BL	(0°-30°)	202.0	3.2	B1/500		
BM	(30°-60°)	1155.9	18.3	B2/2500		
BH	(60°-80°)	1715.5	27.2	B3/2500		G1/1800
BVH	(80°-90°)	84.1	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°	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4
2.5°	368.8	369.2	368.8	368.8	368.4	368.4	368.4	368.8	368.8	369.6	369.2
5°	376.4	376.8	376.0	376.8	376.8	377.2	376.8	376.4	376.8	377.2	376.0
7.5°	387.2	388.0	387.6	388.0	388.4	388.0	388.0	387.6	388.4	388.0	387.2
10°	401.2	402.0	401.6	402.4	402.8	403.2	403.2	402.4	402.0	402.0	401.6
12.5°	418.0	418.0	418.0	419.2	420.0	420.8	420.4	419.6	418.4	418.8	417.2
15°	436.4	437.2	437.2	437.6	439.6	440.0	439.6	438.4	438.0	437.2	436.4
17.5°	456.8	457.2	457.6	458.0	460.4	461.6	460.0	458.0	458.0	457.6	457.6
20°	478.0	477.6	478.4	479.2	480.8	482.0	481.6	479.6	478.0	479.2	478.8
22.5°	497.6	498.0	498.4	499.6	502.4	502.8	501.6	500.0	498.0	498.4	498.4
25°	516.0	516.4	517.2	518.8	522.0	524.0	522.4	520.0	517.2	517.2	517.6
27.5°	534.8	535.2	535.6	538.4	542.4	544.8	543.6	539.6	536.4	535.6	534.4
30°	555.6	555.6	556.4	560.0	565.2	568.0	566.4	561.6	556.8	556.0	556.0
32.5°	582.0	580.4	581.6	586.4	592.0	595.2	594.0	588.4	582.4	581.2	581.2
35°	613.6	612.8	613.6	619.2	626.0	630.8	628.0	622.8	616.4	615.2	614.4
37.5°	651.2	651.6	654.0	660.4	669.6	675.6	672.8	664.4	656.8	656.8	656.8
40°	698.8	699.6	704.4	714.0	727.2	732.4	729.2	718.8	710.0	706.8	707.6
42.5°	763.6	763.2	770.8	782.8	798.4	806.0	800.8	789.6	776.8	771.6	772.0
45°	840.0	845.6	853.6	868.8	888.4	901.6	892.4	880.0	860.8	853.2	852.8
47.5°	932.4	938.4	948.4	973.6	997.2	1013.2	1006.0	985.6	958.0	947.2	943.2
50°	1037.6	1045.2	1058.0	1090.4	1124.0	1142.0	1129.2	1102.4	1072.8	1056.4	1052.4
52.5°	1156.0	1158.4	1177.6	1216.8	1258.4	1280.4	1266.0	1234.0	1196.0	1180.8	1169.6
55°	1287.2	1289.2	1311.2	1355.6	1402.8	1428.8	1410.4	1370.0	1334.8	1308.4	1310.8
57.5°	1408.8	1414.8	1447.2	1499.2	1554.8	1586.4	1566.4	1523.6	1486.8	1456.8	1460.4
60°	1538.8	1545.2	1579.2	1641.2	1716.4	1758.4	1732.4	1686.4	1648.4	1620.0	1616.4
62.5°	1676.8	1680.4	1717.6	1773.2	1869.2	1936.8	1912.0	1861.2	1816.8	1788.8	1786.0
65°	1804.4	1809.2	1840.8	1901.6	2000.4	2099.2	2085.2	2014.8	1954.8	1914.4	1908.8
67.5°	1850.8	1854.0	1898.4	1983.6	2097.2	2194.8	2198.8	2088.0	2000.8	1951.6	1950.4
70°	1796.4	1798.8	1855.6	1956.8	2101.6	2182.8	2168.4	2057.2	1950.0	1889.6	1883.6
72.5°	1674.4	1674.8	1726.8	1812.8	1958.0	2024.4	1963.2	1902.0	1791.2	1746.0	1734.0
75°	1452.4	1452.8	1488.8	1546.0	1649.6	1710.8	1641.2	1585.2	1520.0	1493.2	1479.2
77.5°	998.8	1004.8	1042.0	1108.0	1221.6	1289.2	1198.0	1096.4	1056.8	1034.0	1020.4
80°	480.8	490.0	532.8	598.0	716.8	824.8	712.4	587.2	510.0	447.2	458.4
82.5°	128.4	130.0	166.8	239.6	334.0	392.0	318.4	222.8	140.4	94.4	86.4
85°	34.0	36.0	50.4	69.2	105.2	134.0	102.4	65.2	49.6	36.8	33.6
87.5°	9.2	10.8	17.6	21.2	26.4	21.2	26.4	22.8	22.0	11.6	8.4
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)