

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: P157554

Luminaire Tested: **VST-F03-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157554
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-F03-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7142.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 78.3
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

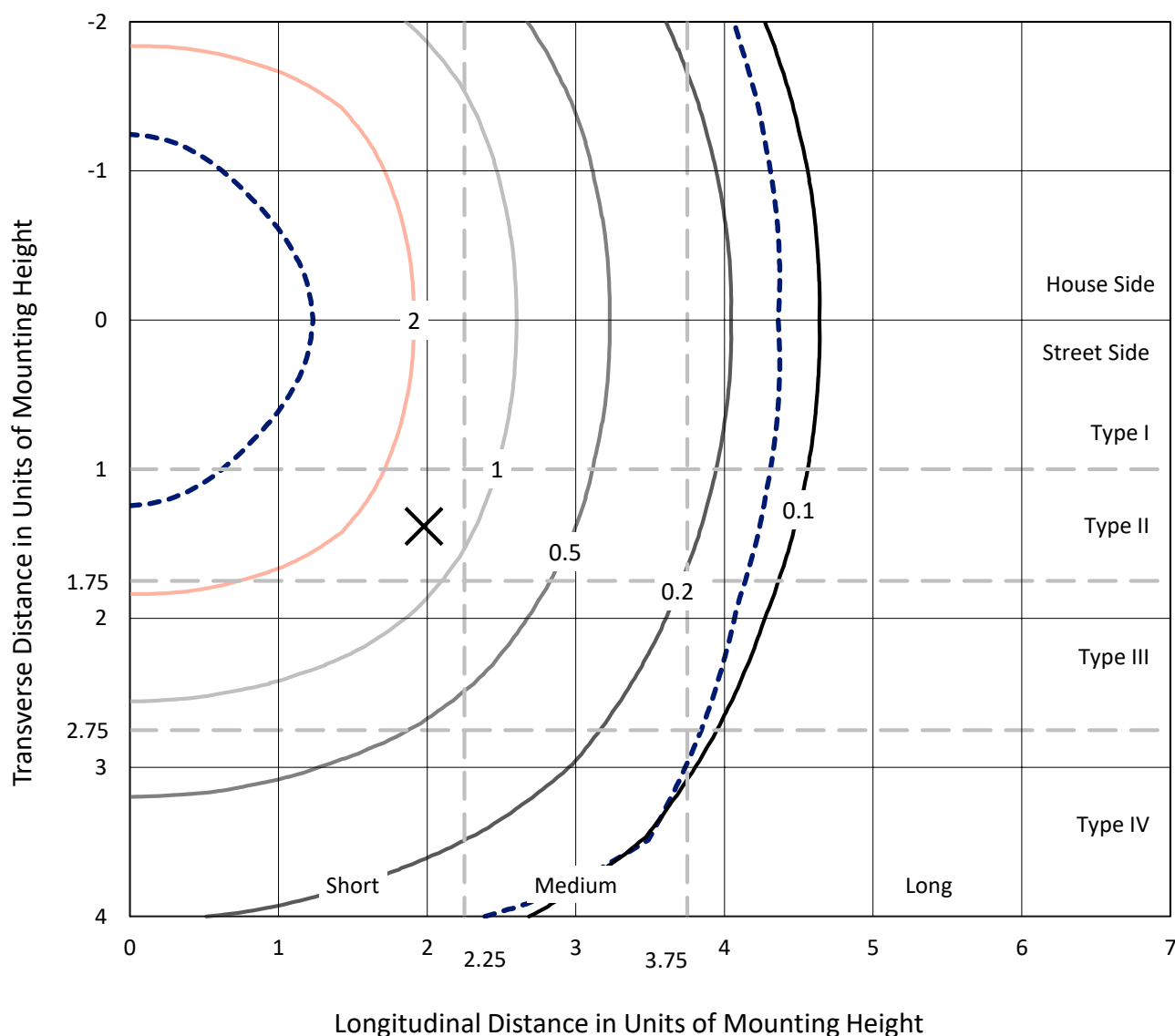


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

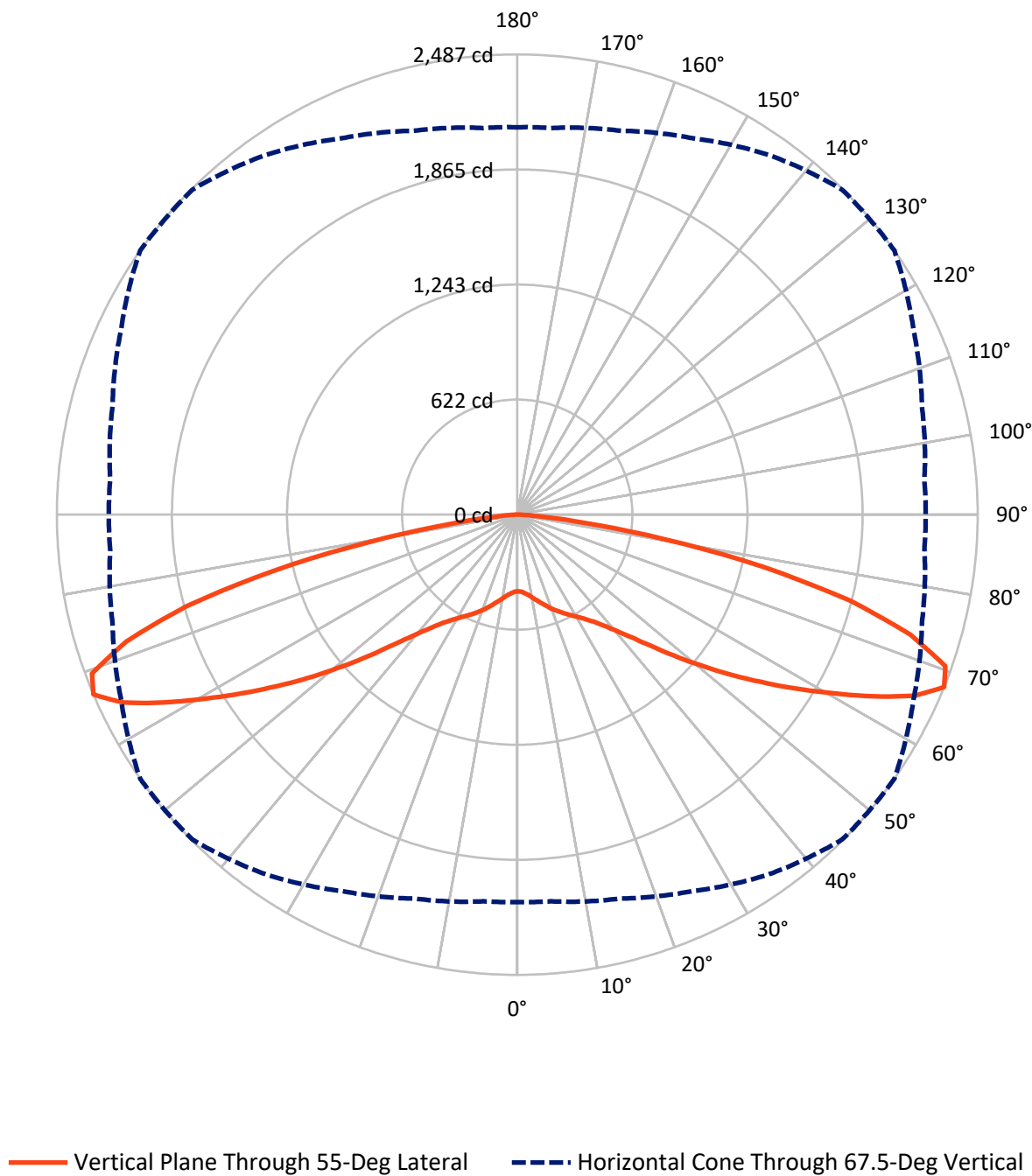


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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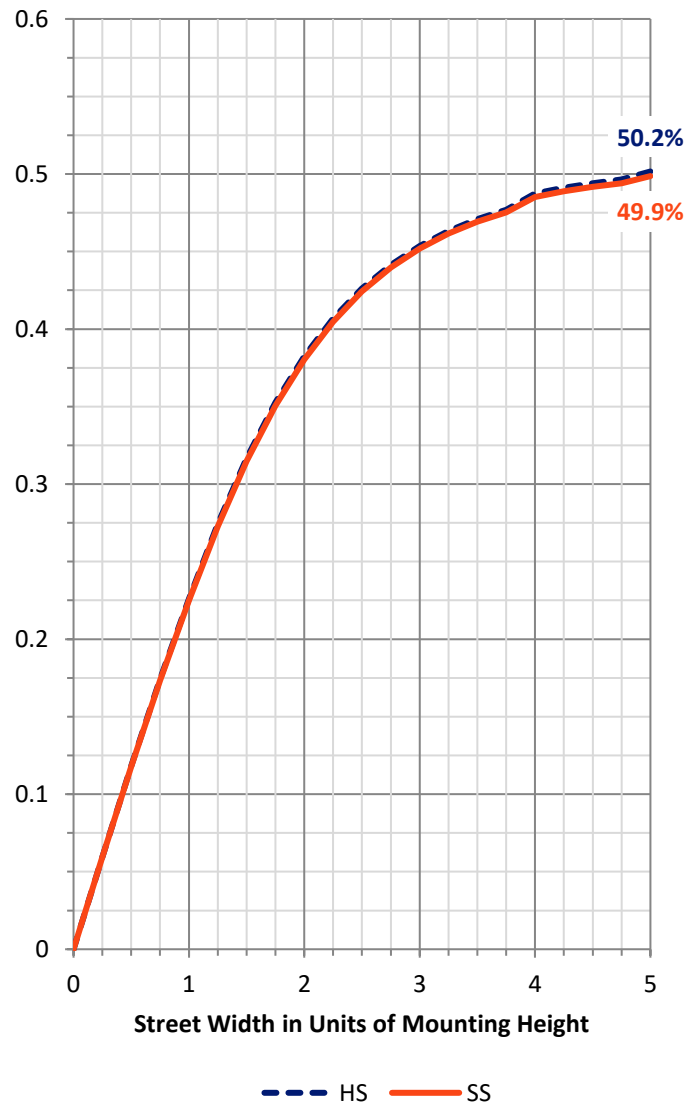
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3571.1	0.0	3571.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3571.1	0.0	3571.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7142.2	0.0	7142.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.6
10°-20°	142.1	2.0
20°-30°	273.2	3.8
30°-40°	447.6	6.3
40°-50°	778.2	10.9
50°-60°	1389.0	19.4
60°-70°	2144.5	30.0
70°-80°	1735.9	24.3
80°-90°	190.2	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°	7142.2	100.0
0°-180°	7142.2	100.0

Coefficient of Utilization



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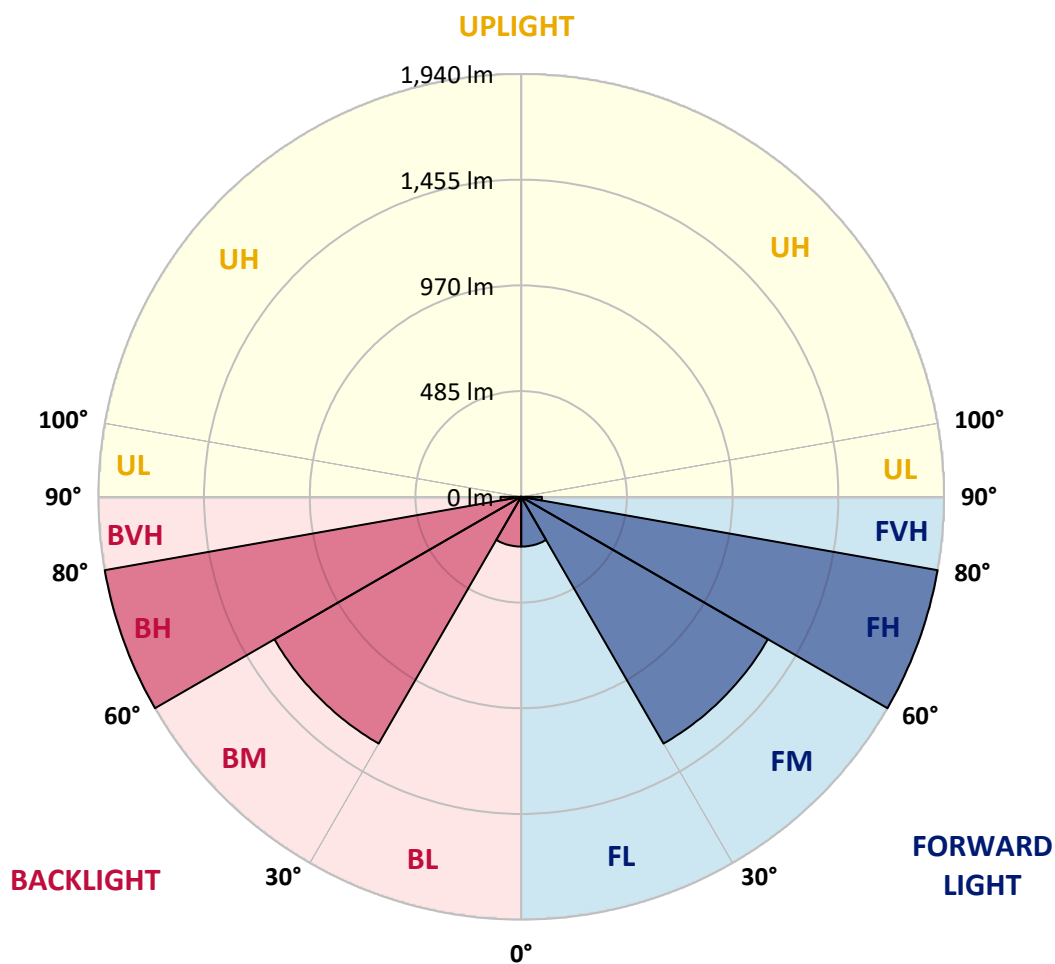
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.5	3.2			
FM	(30°-60°)	1307.4	18.3			
FH	(60°-80°)	1940.2	27.2			G2/5000
FVH	(80°-90°)	95.1	1.3			G1/100
BL	(0°-30°)	228.5	3.2	B1/500		
BM	(30°-60°)	1307.4	18.3	B2/2500		
BH	(60°-80°)	1940.2	27.2	B3/2500		G2/5000
BVH	(80°-90°)	95.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	417.1	417.5	417.1	417.1	416.6	416.6	416.6	417.1	417.1	418.0	417.5
5°	425.7	426.2	425.3	426.2	426.2	426.6	426.2	425.7	426.2	426.6	425.3
7.5°	437.9	438.8	438.4	438.8	439.3	438.8	438.8	438.4	439.3	438.8	437.9
10°	453.8	454.7	454.2	455.1	455.6	456.0	456.0	455.1	454.7	454.7	454.2
12.5°	472.7	472.7	472.7	474.1	475.0	475.9	475.4	474.5	473.2	473.6	471.8
15°	493.6	494.5	494.5	494.9	497.2	497.6	497.2	495.8	495.4	494.5	493.6
17.5°	516.7	517.1	517.6	518.0	520.7	522.1	520.3	518.0	518.0	517.6	517.6
20°	540.6	540.2	541.1	542.0	543.8	545.2	544.7	542.4	540.6	542.0	541.5
22.5°	562.8	563.2	563.7	565.0	568.2	568.7	567.3	565.5	563.2	563.7	563.7
25°	583.6	584.0	584.9	586.7	590.4	592.6	590.8	588.1	584.9	584.9	585.4
27.5°	604.9	605.3	605.8	608.9	613.4	616.1	614.8	610.3	606.7	605.8	604.4
30°	628.4	628.4	629.3	633.4	639.2	642.4	640.6	635.2	629.8	628.9	628.9
32.5°	658.3	656.4	657.8	663.2	669.5	673.1	671.8	665.5	658.7	657.4	657.4
35°	694.0	693.1	694.0	700.3	708.0	713.4	710.3	704.4	697.1	695.8	694.9
37.5°	736.5	737.0	739.7	746.9	757.3	764.1	760.9	751.4	742.9	742.9	742.9
40°	790.3	791.2	796.7	807.5	822.5	828.4	824.7	812.9	803.0	799.4	800.3
42.5°	863.6	863.2	871.7	885.4	903.0	911.6	905.7	893.0	878.6	872.7	873.1
45°	950.0	956.3	965.4	982.6	1004.8	1019.7	1009.3	995.3	973.6	965.0	964.5
47.5°	1054.6	1061.3	1072.6	1101.1	1127.8	1145.9	1137.8	1114.7	1083.5	1071.3	1066.7
50°	1173.5	1182.1	1196.6	1233.2	1271.2	1291.6	1277.1	1246.8	1213.3	1194.8	1190.3
52.5°	1307.4	1310.2	1331.9	1376.2	1423.3	1448.1	1431.8	1395.7	1352.6	1335.5	1322.8
55°	1455.8	1458.1	1483.0	1533.2	1586.6	1616.0	1595.2	1549.4	1509.7	1479.8	1482.5
57.5°	1593.4	1600.1	1636.7	1695.6	1758.5	1794.2	1771.6	1723.2	1681.6	1647.6	1651.7
60°	1740.4	1747.6	1786.1	1856.2	1941.2	1988.8	1959.3	1907.3	1864.3	1832.2	1828.1
62.5°	1896.4	1900.5	1942.6	2005.5	2114.0	2190.5	2162.5	2105.0	2054.8	2023.1	2020.0
65°	2040.8	2046.2	2081.9	2150.7	2262.4	2374.2	2358.4	2278.7	2210.9	2165.2	2158.9
67.5°	2093.2	2096.9	2147.1	2243.5	2371.9	2482.3	2486.8	2361.5	2262.9	2207.2	2205.9
70°	2031.7	2034.4	2098.7	2213.1	2376.9	2468.7	2452.4	2326.7	2205.4	2137.1	2130.4
72.5°	1893.7	1894.2	1953.0	2050.3	2214.5	2289.6	2220.4	2151.1	2025.8	1974.7	1961.2
75°	1642.7	1643.1	1683.8	1748.5	1865.7	1934.9	1856.2	1792.9	1719.1	1688.8	1673.0
77.5°	1129.6	1136.4	1178.5	1253.2	1381.6	1458.1	1354.9	1240.0	1195.3	1169.5	1154.0
80°	543.8	554.2	602.6	676.3	810.7	932.8	805.7	664.1	576.8	505.8	518.5
82.5°	145.2	147.0	188.6	271.0	377.8	443.3	360.1	252.0	158.8	106.7	97.7
85°	38.5	40.7	57.0	78.2	119.0	151.6	115.8	73.7	56.1	41.6	38.0
87.5°	10.4	12.2	19.9	24.0	29.9	24.0	29.9	25.8	24.9	13.1	9.5
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)