

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: P157553

Luminaire Tested: **VST-F03-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157553
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6599.8 lumens
Efficiency: N/A
Efficacy: 84.3 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 - G1

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

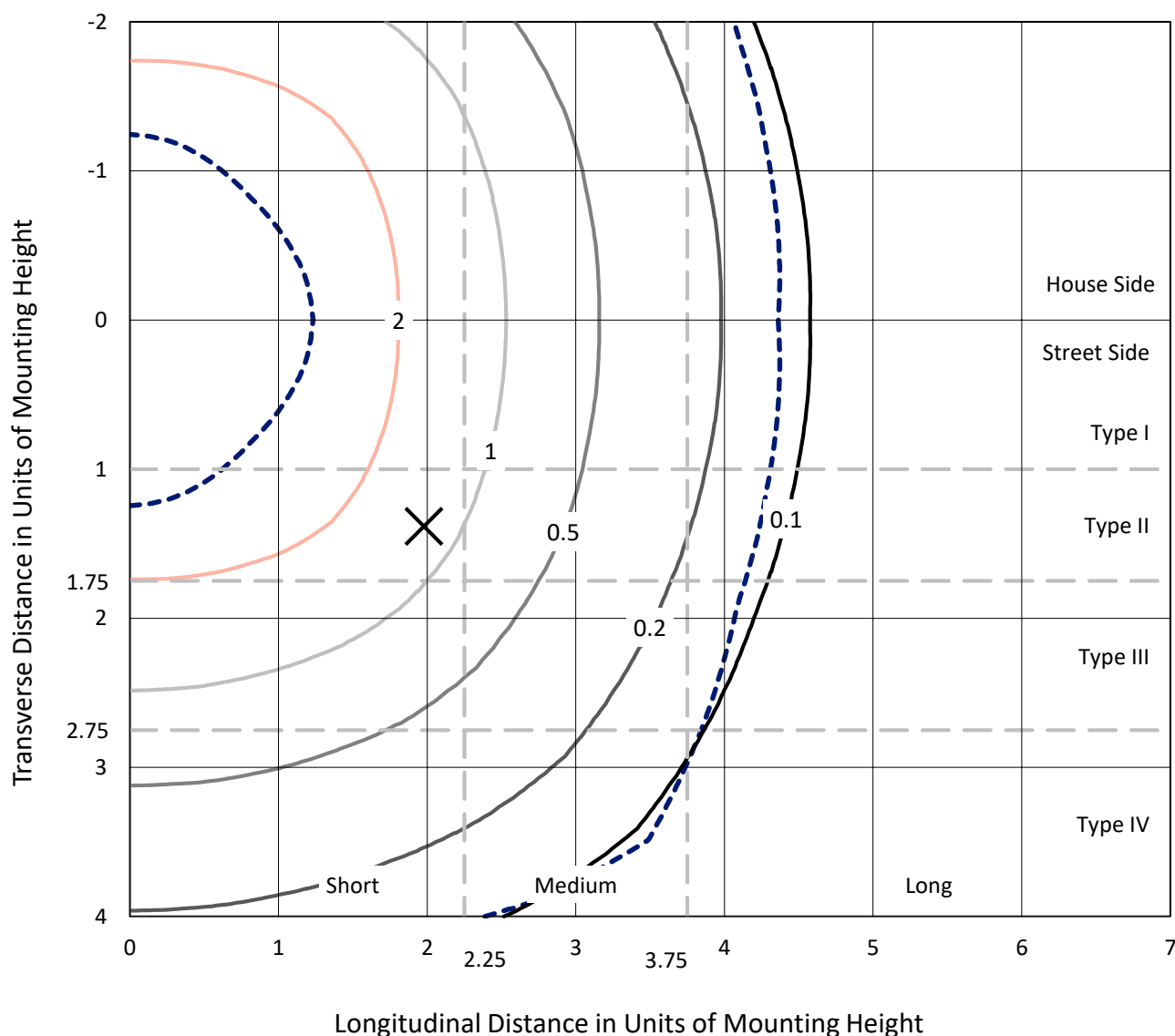


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

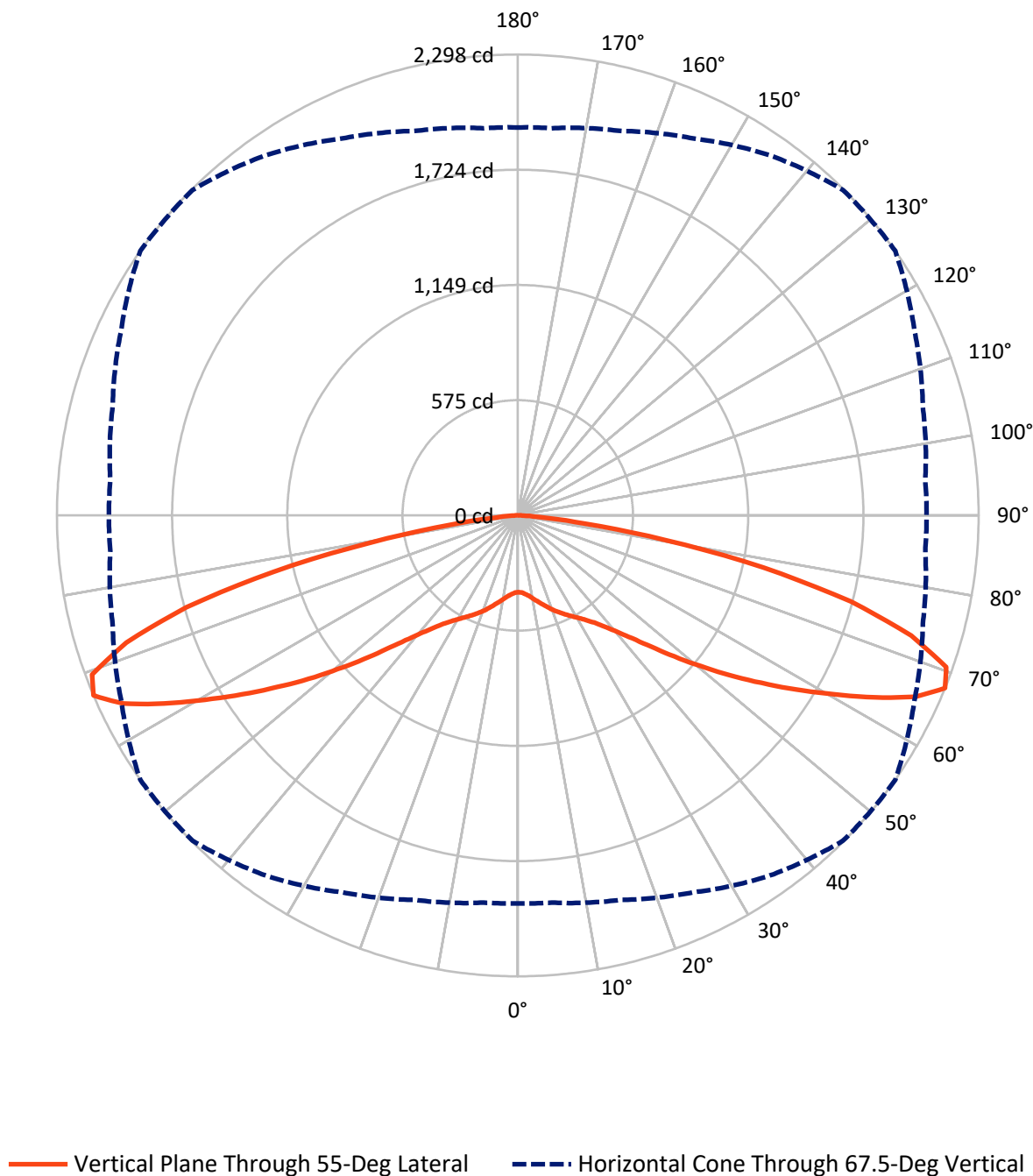


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.9	0.0	3299.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3299.9	0.0	3299.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6599.8	0.0	6599.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.6
10°-20°	131.3	2.0
20°-30°	252.5	3.8
30°-40°	413.6	6.3
40°-50°	719.1	10.9
50°-60°	1283.5	19.4
60°-70°	1981.6	30.0
70°-80°	1604.1	24.3
80°-90°	175.7	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°	6599.8	100.0
0°-180°	6599.8	100.0

Coefficient of Utilization



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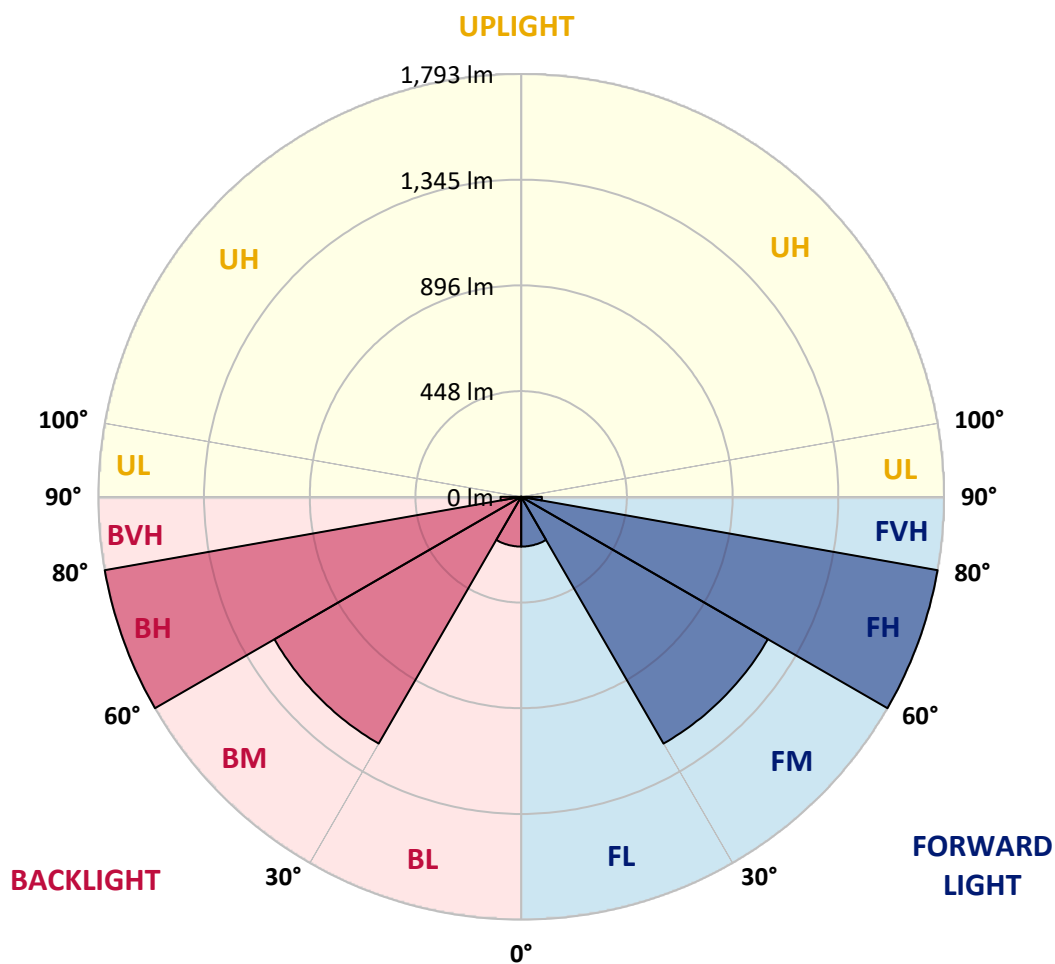
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.1	3.2			
FM	(30°-60°)	1208.1	18.3			
FH	(60°-80°)	1792.9	27.2			G1/1800
FVH	(80°-90°)	87.9	1.3			G1/100
BL	(0°-30°)	211.1	3.2	B1/500		
BM	(30°-60°)	1208.1	18.3	B2/2500		
BH	(60°-80°)	1792.9	27.2	B3/2500		G1/1800
BVH	(80°-90°)	87.9	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°	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9
2.5°	385.4	385.9	385.4	385.4	385.0	385.0	385.0	385.4	385.4	386.3	385.9
5°	393.4	393.8	392.9	393.8	393.8	394.2	393.8	393.4	393.8	394.2	392.9
7.5°	404.6	405.5	405.1	405.5	405.9	405.5	405.5	405.1	405.9	405.5	404.6
10°	419.3	420.1	419.7	420.5	421.0	421.4	421.4	420.5	420.1	420.1	419.7
12.5°	436.9	436.9	436.9	438.1	439.0	439.8	439.4	438.5	437.3	437.7	436.0
15°	456.1	456.9	456.9	457.3	459.4	459.8	459.4	458.2	457.7	456.9	456.1
17.5°	477.4	477.8	478.3	478.7	481.1	482.4	480.7	478.7	478.7	478.3	478.3
20°	499.6	499.1	500.0	500.8	502.5	503.8	503.3	501.2	499.6	500.8	500.4
22.5°	520.0	520.4	520.9	522.1	525.1	525.5	524.2	522.5	520.4	520.9	520.9
25°	539.3	539.7	540.5	542.2	545.5	547.6	545.9	543.5	540.5	540.5	541.0
27.5°	558.9	559.3	559.7	562.7	566.9	569.4	568.1	563.9	560.6	559.7	558.5
30°	580.7	580.7	581.5	585.2	590.7	593.6	592.0	586.9	581.9	581.1	581.1
32.5°	608.3	606.6	607.9	612.8	618.7	622.0	620.8	614.9	608.6	607.4	607.4
35°	641.3	640.4	641.3	647.1	654.2	659.3	656.3	650.9	644.2	643.0	642.1
37.5°	680.6	681.0	683.5	690.2	699.8	706.1	703.1	694.4	686.4	686.4	686.4
40°	730.3	731.2	736.2	746.2	760.0	765.4	762.1	751.2	742.0	738.7	739.5
42.5°	798.1	797.6	805.6	818.1	834.4	842.3	836.9	825.2	811.9	806.4	806.8
45°	877.9	883.7	892.1	908.0	928.4	942.2	932.6	919.7	899.6	891.7	891.2
47.5°	974.5	980.7	991.2	1017.5	1042.2	1058.9	1051.4	1030.1	1001.2	989.9	985.7
50°	1084.4	1092.4	1105.7	1139.6	1174.7	1193.5	1180.1	1152.1	1121.2	1104.1	1099.9
52.5°	1208.2	1210.6	1230.7	1271.7	1315.1	1338.2	1323.1	1289.6	1249.9	1234.1	1222.4
55°	1345.3	1347.4	1370.3	1416.7	1466.1	1493.2	1474.0	1431.8	1395.0	1367.4	1369.9
57.5°	1472.3	1478.6	1512.5	1566.8	1624.9	1658.0	1637.0	1592.3	1553.9	1522.5	1526.3
60°	1608.2	1614.9	1650.4	1715.2	1793.8	1837.7	1810.6	1762.4	1722.7	1693.1	1689.3
62.5°	1752.4	1756.2	1795.1	1853.2	1953.5	2024.2	1998.2	1945.1	1898.8	1869.5	1866.5
65°	1885.8	1890.8	1923.8	1987.4	2090.6	2193.9	2179.3	2105.7	2042.9	2000.8	1994.9
67.5°	1934.3	1937.6	1984.0	2073.1	2191.8	2293.8	2298.0	2182.2	2091.1	2039.6	2038.4
70°	1877.4	1879.9	1939.3	2045.0	2196.4	2281.3	2266.2	2150.0	2038.0	1974.8	1968.5
72.5°	1749.9	1750.3	1804.7	1894.6	2046.3	2115.7	2051.8	1987.8	1872.0	1824.8	1812.2
75°	1517.9	1518.3	1555.9	1615.7	1724.0	1787.9	1715.2	1656.7	1588.6	1560.5	1545.9
77.5°	1043.8	1050.1	1089.0	1158.0	1276.7	1347.4	1252.0	1145.9	1104.5	1080.7	1066.4
80°	502.5	512.1	556.9	625.0	749.2	862.0	744.5	613.7	533.0	467.4	479.1
82.5°	134.2	135.8	174.3	250.4	349.1	409.7	332.8	232.9	146.8	98.6	90.3
85°	35.5	37.6	52.7	72.3	109.9	140.0	107.0	68.2	51.8	38.5	35.1
87.5°	9.6	11.3	18.4	22.1	27.6	22.1	27.6	23.8	23.0	12.1	8.8
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)