

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: P157539

Luminaire Tested: **VST-E02-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157539
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5767.8 lumens
Efficiency: N/A
Efficacy: 110.7 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

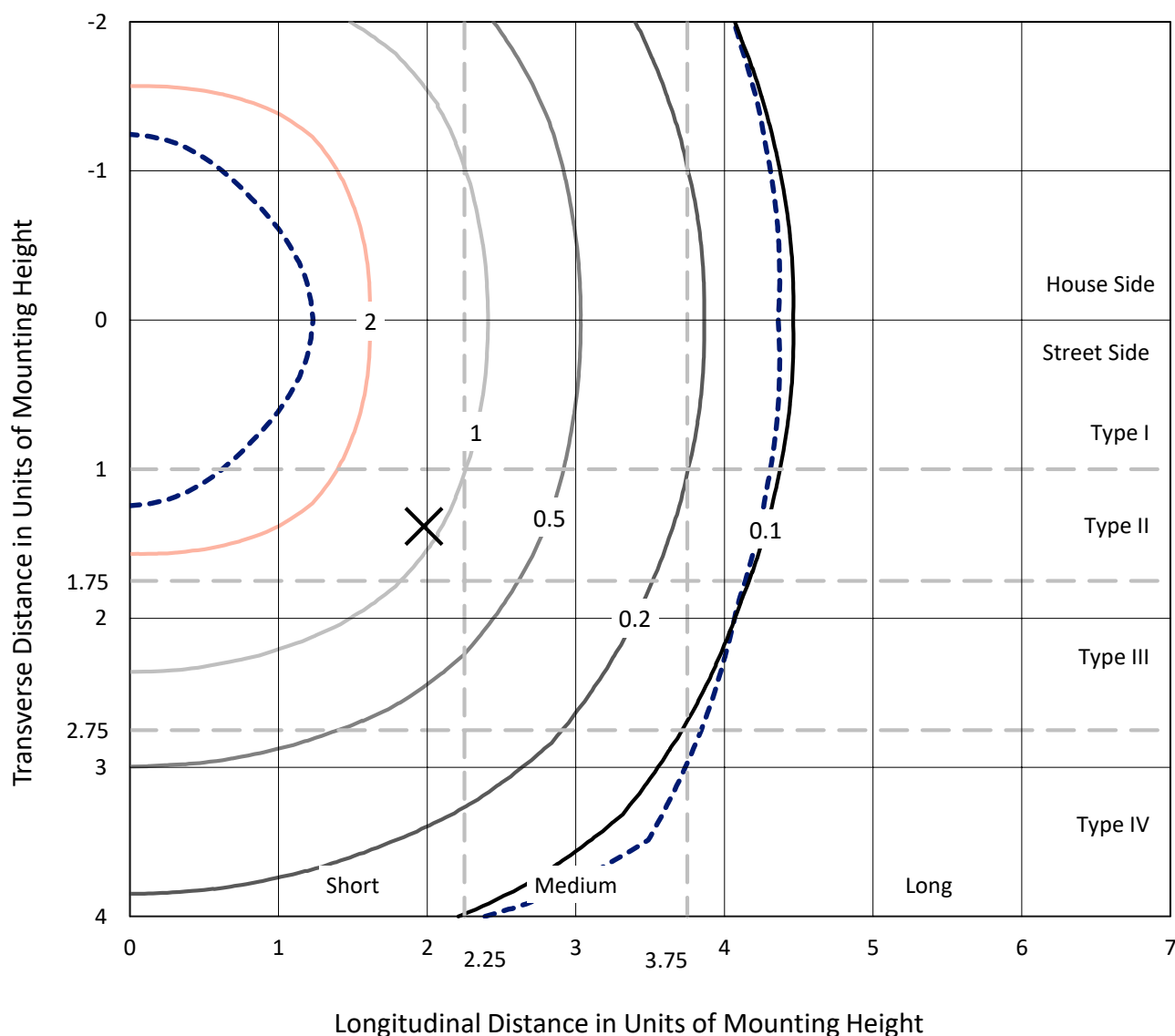


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

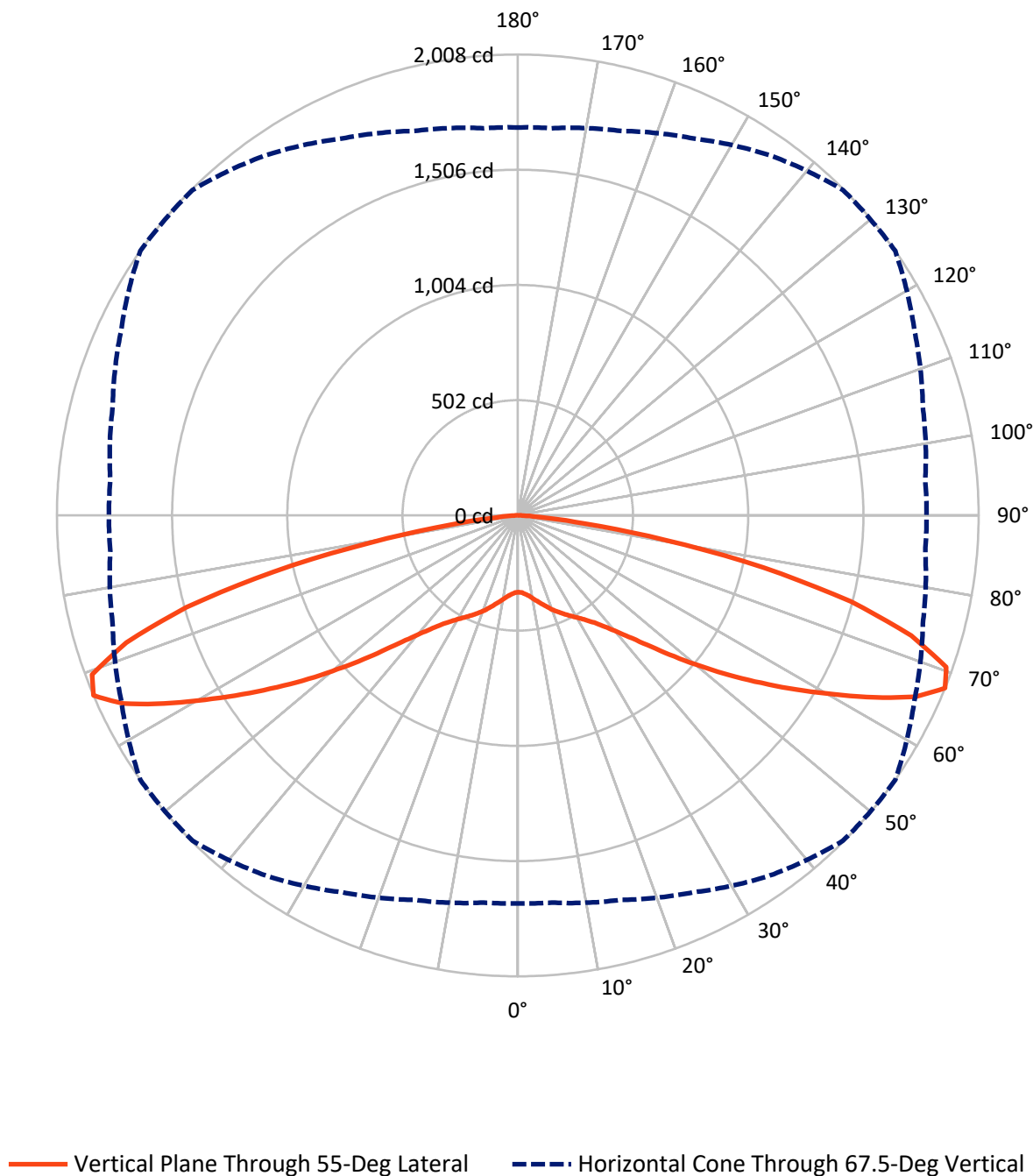


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2883.9	0.0	2883.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2883.9	0.0	2883.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5767.8	0.0	5767.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	0.6
10°-20°	114.8	2.0
20°-30°	220.7	3.8
30°-40°	361.5	6.3
40°-50°	628.4	10.9
50°-60°	1121.7	19.4
60°-70°	1731.8	30.0
70°-80°	1401.9	24.3
80°-90°	153.6	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°	5767.8	100.0
0°-180°	5767.8	100.0

Coefficient of Utilization



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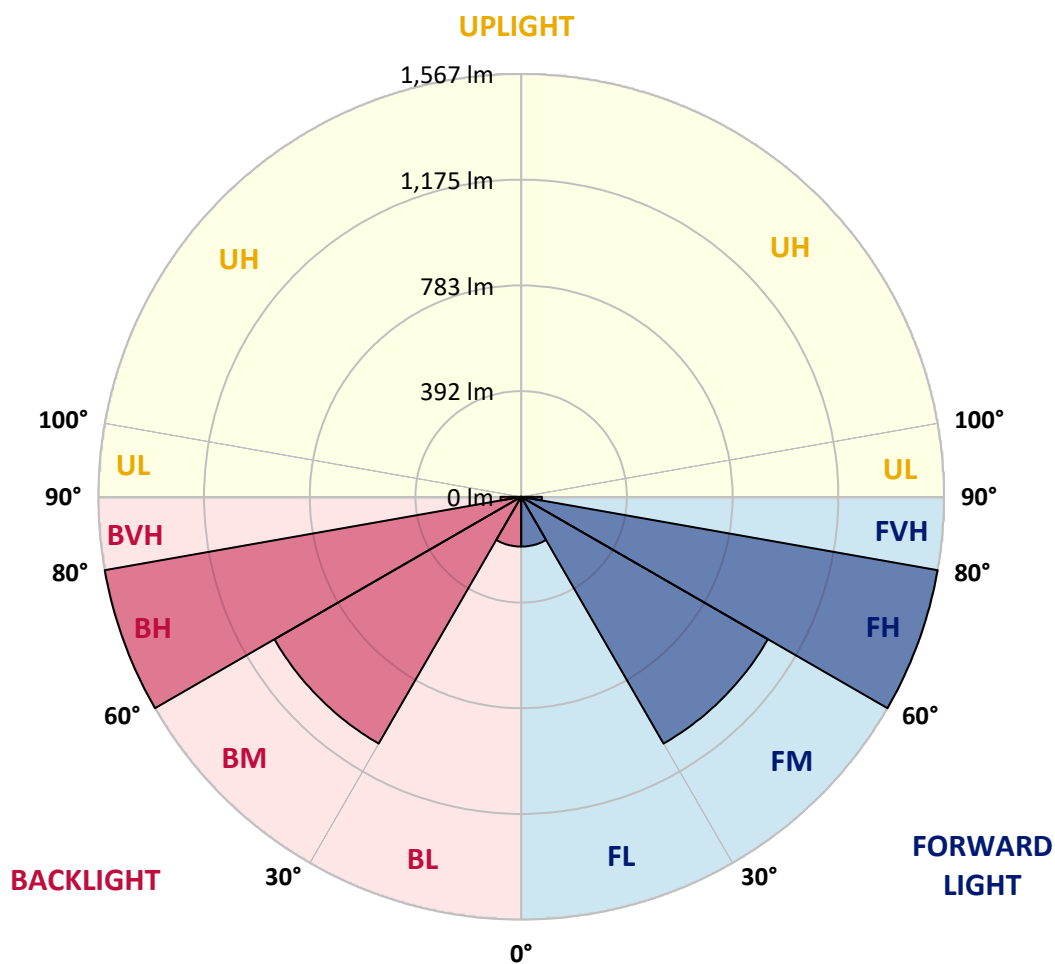
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.5	3.2			
FM	(30°-60°)	1055.8	18.3			
FH	(60°-80°)	1566.8	27.2			G1/1800
FVH	(80°-90°)	76.8	1.3			G1/100
BL	(0°-30°)	184.5	3.2	B1/500		
BM	(30°-60°)	1055.8	18.3	B2/2500		
BH	(60°-80°)	1566.8	27.2	B3/2500		G1/1800
BVH	(80°-90°)	76.8	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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7
2.5°	336.8	337.2	336.8	336.8	336.5	336.5	336.5	336.8	336.8	337.6	337.2
5°	343.8	344.2	343.4	344.2	344.2	344.5	344.2	343.8	344.2	344.5	343.4
7.5°	353.6	354.4	354.0	354.4	354.7	354.4	354.4	354.0	354.7	354.4	353.6
10°	366.4	367.1	366.8	367.6	367.9	368.3	368.3	367.6	367.1	367.1	366.8
12.5°	381.8	381.8	381.8	382.9	383.6	384.4	384.0	383.2	382.1	382.5	381.1
15°	398.6	399.3	399.3	399.7	401.5	401.9	401.5	400.4	400.0	399.3	398.6
17.5°	417.2	417.6	418.0	418.3	420.5	421.6	420.1	418.3	418.3	418.0	418.0
20°	436.6	436.2	436.9	437.7	439.1	440.2	439.9	438.1	436.6	437.7	437.3
22.5°	454.5	454.9	455.2	456.3	458.9	459.2	458.2	456.7	454.9	455.2	455.2
25°	471.3	471.7	472.4	473.8	476.8	478.6	477.1	475.0	472.4	472.4	472.7
27.5°	488.5	488.8	489.2	491.8	495.4	497.6	496.5	492.8	489.9	489.2	488.1
30°	507.5	507.5	508.2	511.5	516.2	518.8	517.3	512.9	508.6	507.8	507.8
32.5°	531.5	530.1	531.2	535.6	540.7	543.6	542.5	537.4	532.0	530.8	530.8
35°	560.5	559.7	560.5	565.6	571.7	576.1	573.6	568.9	563.0	561.9	561.2
37.5°	594.8	595.1	597.4	603.2	611.6	617.0	614.5	606.8	599.9	599.9	599.9
40°	638.2	639.0	643.4	652.1	664.2	668.9	666.0	656.5	648.5	645.5	646.3
42.5°	697.4	697.1	704.0	715.0	729.2	736.1	731.4	721.2	709.5	704.8	705.1
45°	767.2	772.3	779.6	793.5	811.4	823.5	815.1	803.8	786.2	779.3	778.9
47.5°	851.6	857.1	866.2	889.3	910.8	925.4	918.8	900.2	875.0	865.1	861.5
50°	947.7	954.7	966.3	995.9	1026.6	1043.0	1031.3	1006.9	979.9	964.9	961.2
52.5°	1055.8	1058.0	1075.6	1111.4	1149.4	1169.5	1156.3	1127.1	1092.4	1078.5	1068.2
55°	1175.6	1177.5	1197.6	1238.2	1281.2	1305.0	1288.2	1251.3	1219.1	1195.0	1197.2
57.5°	1286.7	1292.2	1321.8	1369.3	1420.1	1448.9	1430.7	1391.6	1358.0	1330.6	1333.9
60°	1405.4	1411.3	1442.3	1499.0	1567.7	1606.0	1582.3	1540.3	1505.6	1479.6	1476.4
62.5°	1531.5	1534.8	1568.8	1619.6	1707.2	1769.0	1746.3	1699.9	1659.4	1633.8	1631.2
65°	1648.0	1652.5	1681.3	1736.8	1827.1	1917.3	1904.5	1840.2	1785.4	1748.5	1743.4
67.5°	1690.4	1693.4	1733.9	1811.7	1915.5	2004.6	2008.3	1907.1	1827.4	1782.5	1781.4
70°	1640.8	1642.9	1694.8	1787.2	1919.5	1993.7	1980.5	1879.0	1781.0	1725.8	1720.4
72.5°	1529.3	1529.7	1577.2	1655.7	1788.4	1849.0	1793.1	1737.2	1636.0	1594.7	1583.8
75°	1326.5	1326.9	1359.8	1412.0	1506.7	1562.6	1499.0	1447.9	1388.3	1363.8	1351.0
77.5°	912.2	917.8	951.7	1012.0	1115.8	1177.5	1094.2	1001.4	965.2	944.4	932.0
80°	439.1	447.5	486.7	546.2	654.7	753.4	650.7	536.3	465.8	408.5	418.7
82.5°	117.3	118.7	152.3	218.8	305.0	358.0	290.8	203.5	128.2	86.2	78.9
85°	31.1	32.9	46.0	63.2	96.1	122.4	93.5	59.6	45.3	33.6	30.7
87.5°	8.4	9.8	16.1	19.4	24.1	19.4	24.1	20.8	20.1	10.6	7.7
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)