

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: P157569

Luminaire Tested: **VST-E05-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157569
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-E05-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14419.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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



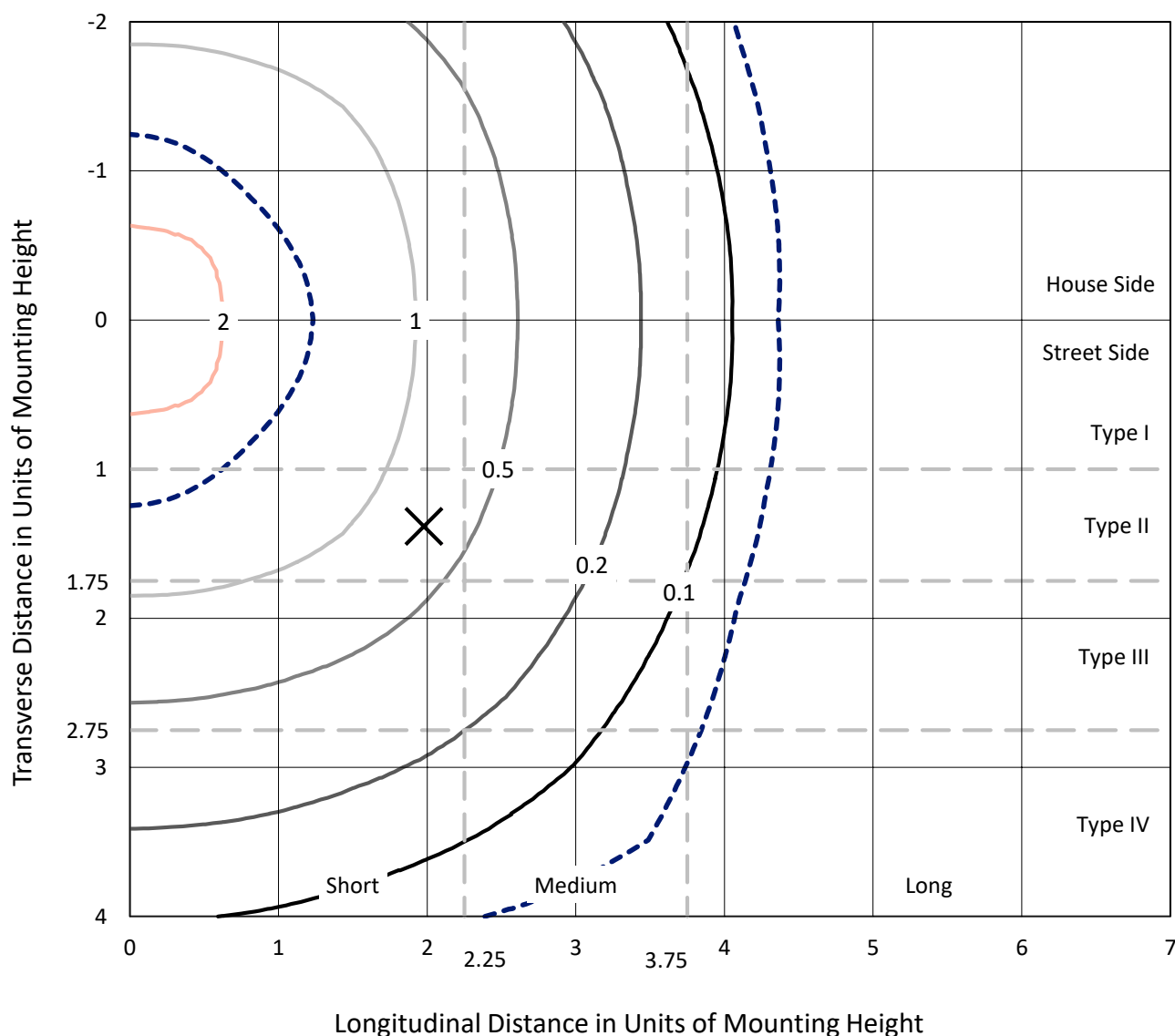
REPORT NUMBER: P157569

CATALOG NUMBER: VST-E05-LED-E-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

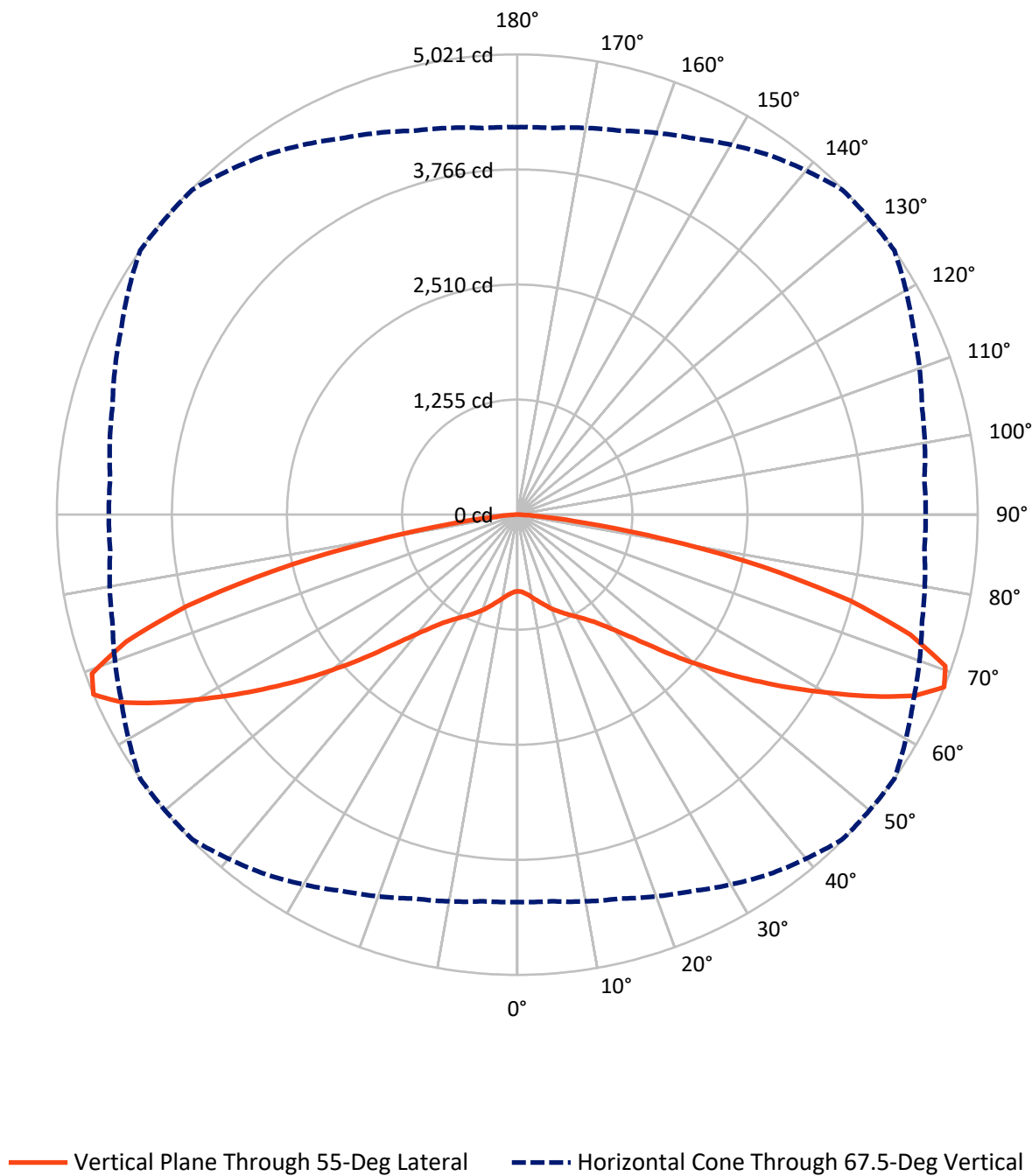


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157569

CATALOG NUMBER: VST-E05-LED-E-U-5WQ-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7209.8	0.0	7209.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7209.8	0.0	7209.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14419.5	0.0	14419.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	0.6
10°-20°	286.9	2.0
20°-30°	551.7	3.8
30°-40°	903.7	6.3
40°-50°	1571.0	10.9
50°-60°	2804.2	19.4
60°-70°	4329.5	30.0
70°-80°	3504.7	24.3
80°-90°	383.9	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°	14419.5	100.0
0°-180°	14419.5	100.0

Coefficient of Utilization



REPORT NUMBER: P157569

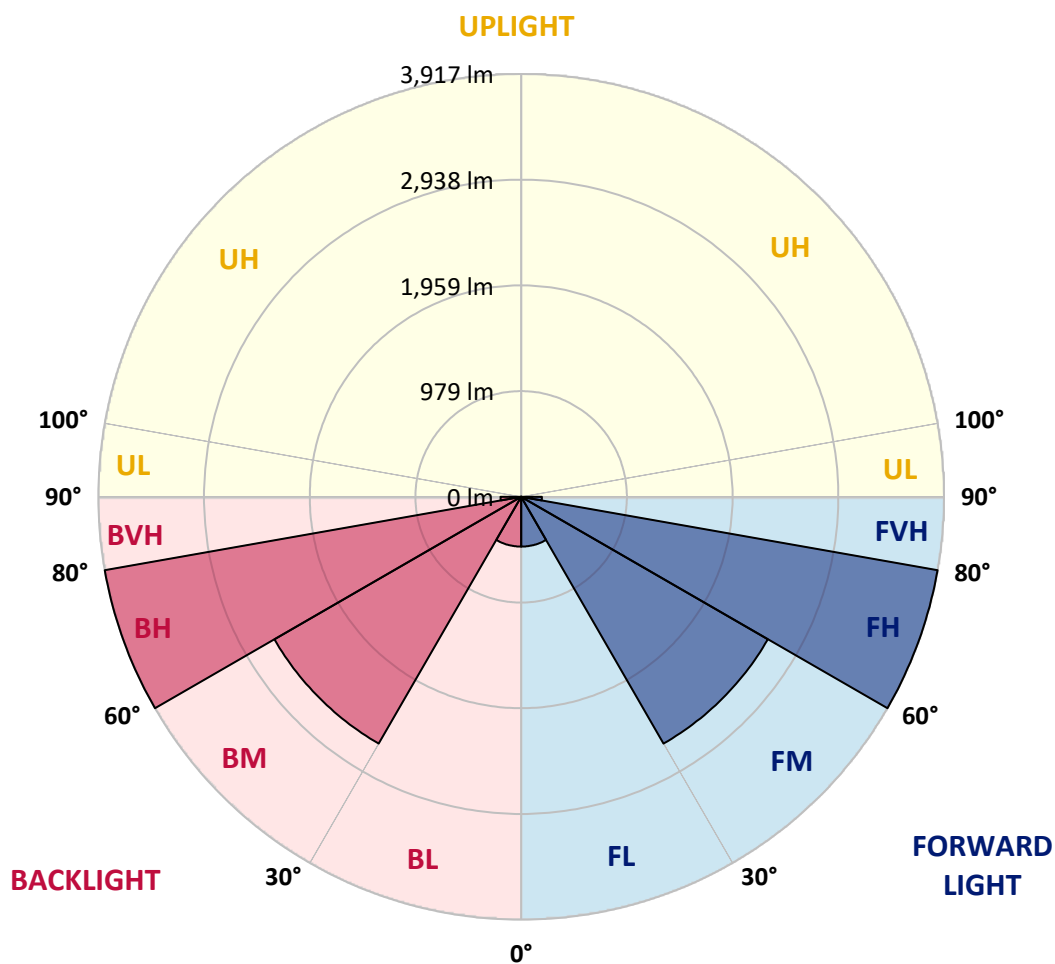
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.3	3.2			
FM	(30°-60°)	2639.4	18.3			
FH	(60°-80°)	3917.1	27.2			G2/5000
FVH	(80°-90°)	192.0	1.3			G2/225
BL	(0°-30°)	461.3	3.2	B1/500		
BM	(30°-60°)	2639.4	18.3	B3/5000		
BH	(60°-80°)	3917.1	27.2	B4/5000		G2/5000
BVH	(80°-90°)	192.0	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P157569

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	842.1	843.0	842.1	842.1	841.2	841.2	841.2	842.1	842.1	843.9	843.0
5°	859.5	860.4	858.5	860.4	860.4	861.3	860.4	859.5	860.4	861.3	858.5
7.5°	884.1	885.9	885.0	885.9	886.9	885.9	885.9	885.0	886.9	885.9	884.1
10°	916.1	917.9	917.0	918.8	919.7	920.7	920.7	918.8	917.9	917.9	917.0
12.5°	954.5	954.5	954.5	957.2	959.0	960.8	959.9	958.1	955.4	956.3	952.6
15°	996.5	998.3	998.3	999.2	1003.8	1004.7	1003.8	1001.0	1000.1	998.3	996.5
17.5°	1043.0	1044.0	1044.9	1045.8	1051.3	1054.0	1050.4	1045.8	1045.8	1044.9	1044.9
20°	1091.5	1090.5	1092.4	1094.2	1097.8	1100.6	1099.7	1095.1	1091.5	1094.2	1093.3
22.5°	1136.2	1137.1	1138.0	1140.8	1147.2	1148.1	1145.3	1141.7	1137.1	1138.0	1138.0
25°	1178.2	1179.1	1181.0	1184.6	1191.9	1196.5	1192.8	1187.4	1181.0	1181.0	1181.9
27.5°	1221.1	1222.1	1223.0	1229.4	1238.5	1244.0	1241.2	1232.1	1224.8	1223.0	1220.2
30°	1268.6	1268.6	1270.5	1278.7	1290.6	1297.0	1293.3	1282.3	1271.4	1269.6	1269.6
32.5°	1328.9	1325.3	1328.0	1339.0	1351.8	1359.1	1356.3	1343.5	1329.8	1327.1	1327.1
35°	1401.1	1399.3	1401.1	1413.9	1429.4	1440.4	1434.0	1422.1	1407.5	1404.7	1402.9
37.5°	1486.9	1487.8	1493.3	1507.9	1528.9	1542.6	1536.3	1517.1	1499.7	1499.7	1499.7
40°	1595.6	1597.4	1608.4	1630.3	1660.5	1672.3	1665.0	1641.3	1621.2	1613.9	1615.7
42.5°	1743.6	1742.7	1760.0	1787.4	1823.0	1840.4	1828.5	1803.0	1773.7	1761.9	1762.8
45°	1918.0	1930.8	1949.1	1983.8	2028.6	2058.7	2037.7	2009.4	1965.5	1948.2	1947.3
47.5°	2129.0	2142.7	2165.6	2223.1	2277.0	2313.5	2297.1	2250.5	2187.5	2162.8	2153.7
50°	2369.2	2386.6	2415.8	2489.8	2566.5	2607.6	2578.4	2517.2	2449.6	2412.2	2403.0
52.5°	2639.6	2645.1	2688.9	2778.4	2873.4	2923.6	2890.8	2817.7	2730.9	2696.2	2670.6
55°	2939.2	2943.7	2994.0	3095.3	3203.1	3262.5	3220.5	3128.2	3047.9	2987.6	2993.0
57.5°	3216.8	3230.5	3304.5	3423.2	3550.2	3622.3	3576.7	3479.0	3394.9	3326.4	3334.6
60°	3513.7	3528.3	3605.9	3747.5	3919.2	4015.1	3955.7	3850.7	3763.9	3699.1	3690.8
62.5°	3828.8	3837.0	3921.9	4048.9	4268.1	4422.4	4365.8	4249.8	4148.4	4084.5	4078.1
65°	4120.1	4131.1	4203.2	4342.1	4567.7	4793.3	4761.3	4600.5	4463.5	4371.3	4358.5
67.5°	4226.1	4233.4	4334.8	4529.3	4788.7	5011.6	5020.7	4767.7	4568.6	4456.2	4453.5
70°	4101.9	4107.3	4237.0	4468.1	4798.7	4984.2	4951.3	4697.4	4452.6	4314.7	4301.0
72.5°	3823.3	3824.2	3942.9	4139.3	4470.8	4622.5	4482.7	4343.0	4090.0	3986.8	3959.4
75°	3316.4	3317.3	3399.5	3530.1	3766.7	3906.4	3747.5	3619.6	3470.7	3409.5	3377.6
77.5°	2280.6	2294.3	2379.3	2530.0	2789.4	2943.7	2735.5	2503.5	2413.1	2361.0	2330.0
80°	1097.8	1118.9	1216.6	1365.5	1636.7	1883.3	1626.7	1340.8	1164.5	1021.1	1046.7
82.5°	293.2	296.8	380.9	547.1	762.6	895.1	727.0	508.7	320.6	215.6	197.3
85°	77.6	82.2	115.1	158.0	240.2	306.0	233.8	148.9	113.3	84.0	76.7
87.5°	21.0	24.7	40.2	48.4	60.3	48.4	60.3	52.1	50.2	26.5	19.2
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)