

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: P157559

Luminaire Tested: **VST-E04-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157559
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-E04-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11535.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2
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



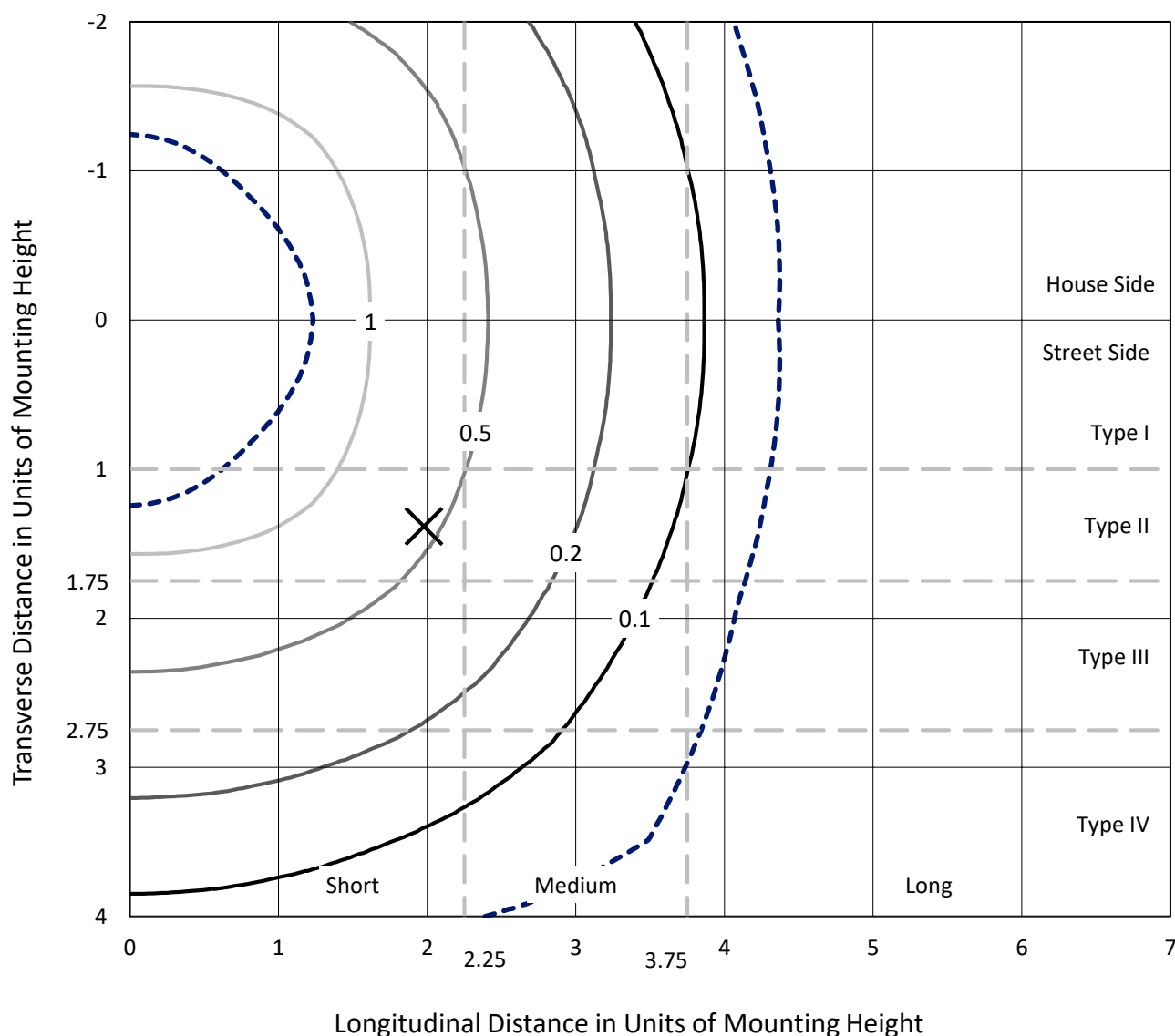
REPORT NUMBER: P157559

CATALOG NUMBER: VST-E04-LED-E-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

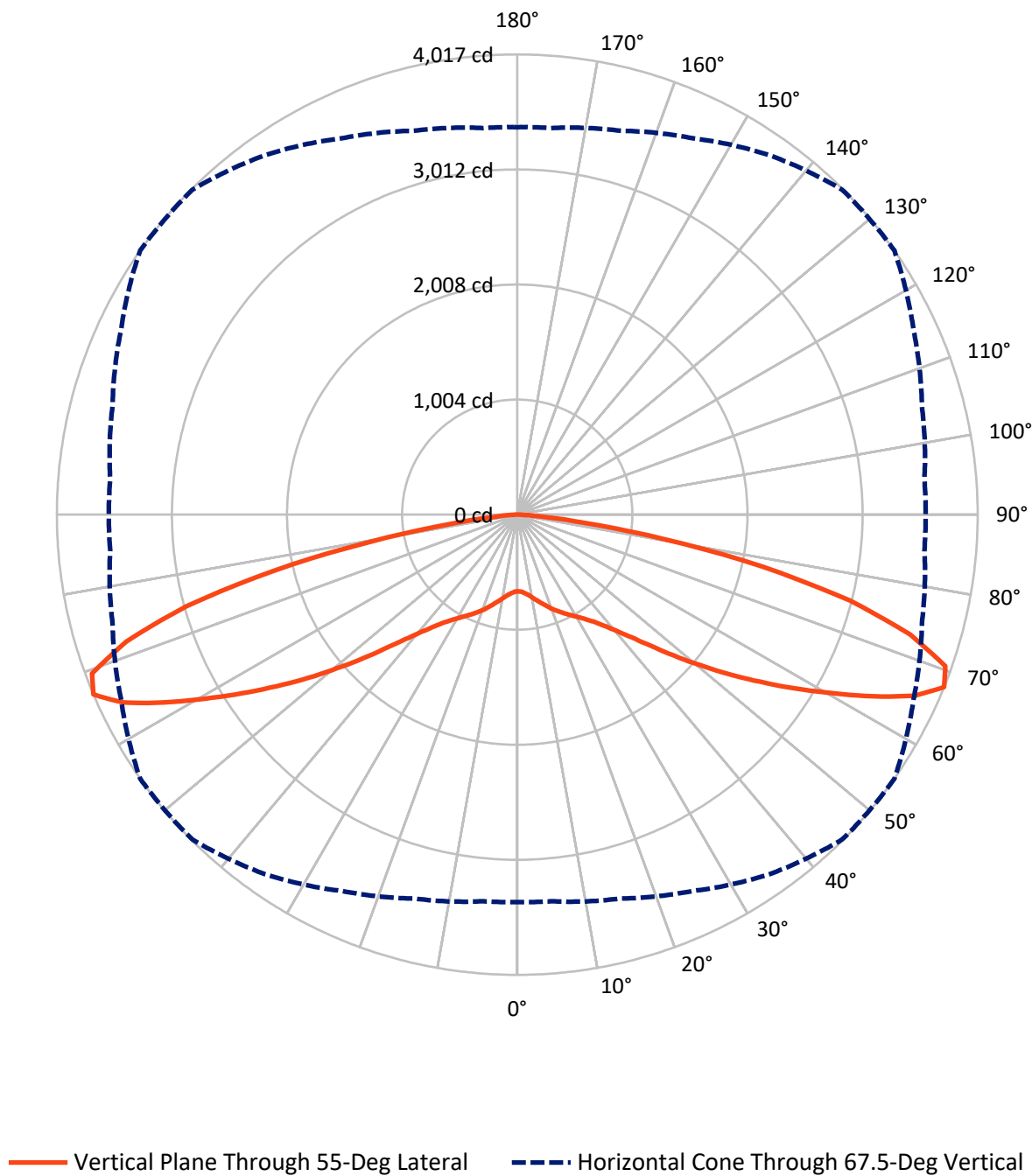


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157559

CATALOG NUMBER: VST-E04-LED-E-U-5WQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157559

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5767.8	0.0	5767.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5767.8	0.0	5767.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11535.6	0.0	11535.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.6
10°-20°	229.5	2.0
20°-30°	441.3	3.8
30°-40°	723.0	6.3
40°-50°	1256.8	10.9
50°-60°	2243.3	19.4
60°-70°	3463.6	30.0
70°-80°	2803.8	24.3
80°-90°	307.1	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°	11535.6	100.0
0°-180°	11535.6	100.0

Coefficient of Utilization



REPORT NUMBER: P157559

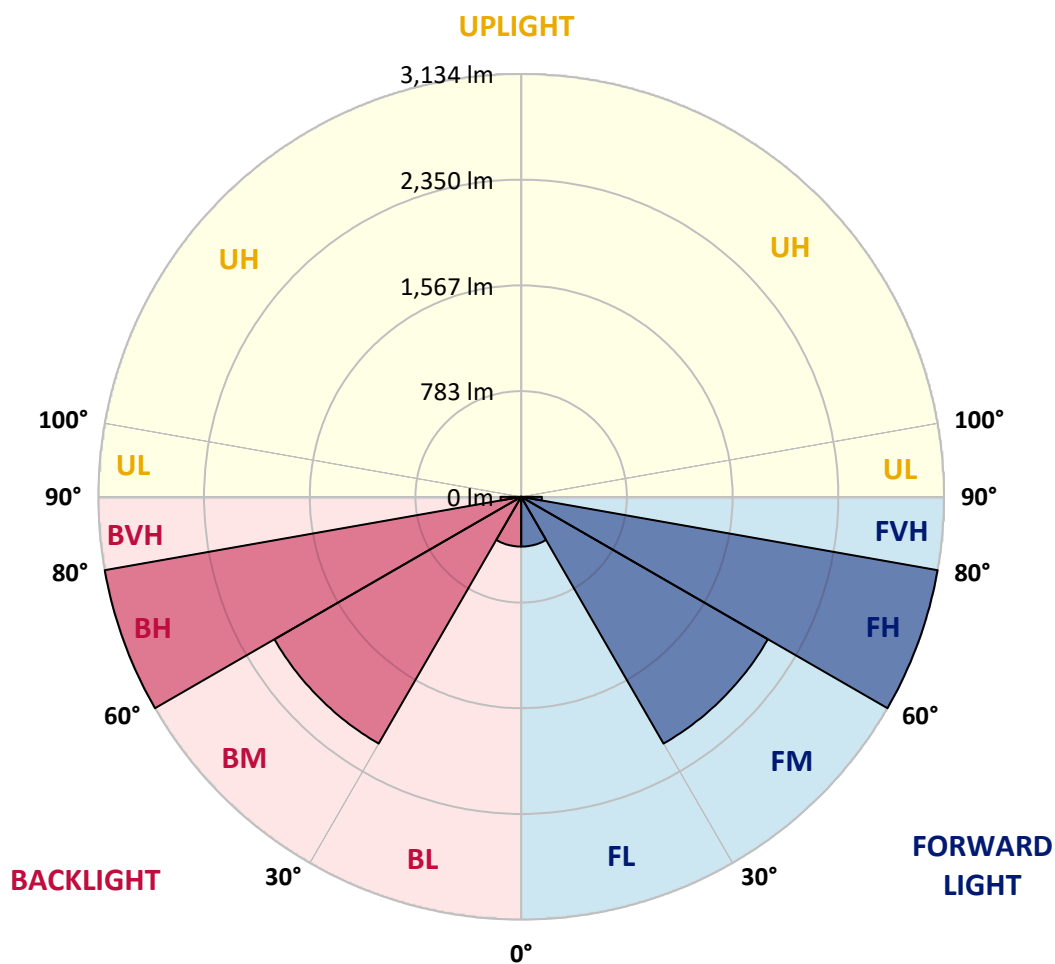
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.0	3.2			
FM	(30°-60°)	2111.6	18.3			
FH	(60°-80°)	3133.7	27.2			G2/5000
FVH	(80°-90°)	153.6	1.3			G2/225
BL	(0°-30°)	369.0	3.2	B1/500		
BM	(30°-60°)	2111.6	18.3	B2/2500		
BH	(60°-80°)	3133.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	153.6	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: P157559

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3	669.3
2.5°	673.7	674.4	673.7	673.7	673.0	673.0	673.0	673.7	673.7	675.1	674.4
5°	687.6	688.3	686.8	688.3	688.3	689.0	688.3	687.6	688.3	689.0	686.8
7.5°	707.3	708.8	708.0	708.8	709.5	708.8	708.8	708.0	709.5	708.8	707.3
10°	732.9	734.3	733.6	735.1	735.8	736.5	736.5	735.1	734.3	734.3	733.6
12.5°	763.6	763.6	763.6	765.8	767.2	768.7	767.9	766.5	764.3	765.0	762.1
15°	797.2	798.6	798.6	799.4	803.0	803.7	803.0	800.8	800.1	798.6	797.2
17.5°	834.4	835.2	835.9	836.6	841.0	843.2	840.3	836.6	836.6	835.9	835.9
20°	873.2	872.4	873.9	875.4	878.3	880.5	879.7	876.1	873.2	875.4	874.6
22.5°	909.0	909.7	910.4	912.6	917.7	918.5	916.3	913.4	909.7	910.4	910.4
25°	942.6	943.3	944.8	947.7	953.5	957.2	954.3	949.9	944.8	944.8	945.5
27.5°	976.9	977.7	978.4	983.5	990.8	995.2	993.0	985.7	979.8	978.4	976.2
30°	1014.9	1014.9	1016.4	1023.0	1032.5	1037.6	1034.6	1025.9	1017.1	1015.6	1015.6
32.5°	1063.1	1060.2	1062.4	1071.2	1081.4	1087.3	1085.1	1074.8	1063.9	1061.7	1061.7
35°	1120.9	1119.4	1120.9	1131.1	1143.5	1152.3	1147.2	1137.7	1126.0	1123.8	1122.3
37.5°	1189.5	1190.3	1194.7	1206.4	1223.2	1234.1	1229.0	1213.7	1199.8	1199.8	1199.8
40°	1276.5	1278.0	1286.7	1304.3	1328.4	1337.9	1332.0	1313.0	1297.0	1291.1	1292.6
42.5°	1394.9	1394.1	1408.0	1429.9	1458.4	1472.3	1462.8	1442.4	1419.0	1409.5	1410.2
45°	1534.4	1544.7	1559.3	1587.0	1622.8	1647.0	1630.1	1607.5	1572.4	1558.5	1557.8
47.5°	1703.2	1714.2	1732.4	1778.5	1821.6	1850.8	1837.7	1800.4	1750.0	1730.3	1722.9
50°	1895.4	1909.3	1932.6	1991.8	2053.2	2086.1	2062.7	2013.8	1959.7	1929.7	1922.4
52.5°	2111.7	2116.1	2151.1	2222.7	2298.7	2338.9	2312.6	2254.1	2184.7	2157.0	2136.5
55°	2351.3	2355.0	2395.2	2476.3	2562.5	2610.0	2576.4	2502.6	2438.3	2390.1	2394.4
57.5°	2573.5	2584.4	2643.6	2738.6	2840.2	2897.9	2861.3	2783.2	2715.9	2661.1	2667.7
60°	2810.9	2822.6	2884.7	2998.0	3135.3	3212.1	3164.6	3080.5	3011.1	2959.3	2952.7
62.5°	3063.0	3069.6	3137.5	3239.1	3414.5	3538.0	3492.7	3399.9	3318.7	3267.6	3262.5
65°	3296.1	3304.9	3362.6	3473.7	3654.1	3834.6	3809.0	3680.4	3570.8	3497.0	3486.8
67.5°	3380.9	3386.7	3467.8	3623.4	3831.0	4009.2	4016.5	3814.2	3654.9	3565.0	3562.8
70°	3281.5	3285.9	3389.6	3574.5	3839.0	3987.3	3961.0	3757.9	3562.1	3451.7	3440.8
72.5°	3058.6	3059.4	3154.3	3311.4	3576.7	3698.0	3586.2	3474.4	3272.0	3189.4	3167.5
75°	2653.1	2653.8	2719.6	2824.1	3013.3	3125.1	2998.0	2895.7	2776.6	2727.6	2702.1
77.5°	1824.5	1835.5	1903.4	2024.0	2231.5	2355.0	2188.4	2002.8	1930.5	1888.8	1864.0
80°	878.3	895.1	973.3	1092.4	1309.4	1506.7	1301.3	1072.6	931.6	816.9	837.4
82.5°	234.5	237.5	304.7	437.7	610.1	716.1	581.6	407.0	256.5	172.4	157.8
85°	62.1	65.8	92.1	126.4	192.2	244.8	187.1	119.1	90.6	67.2	61.4
87.5°	16.8	19.7	32.1	38.7	48.2	38.7	48.2	41.6	40.2	21.2	15.3
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)