

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: P157549

Luminaire Tested: **VST-E03-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157549
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-E03-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8651.7 lumens
Efficiency: N/A
Efficacy: 115.0 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

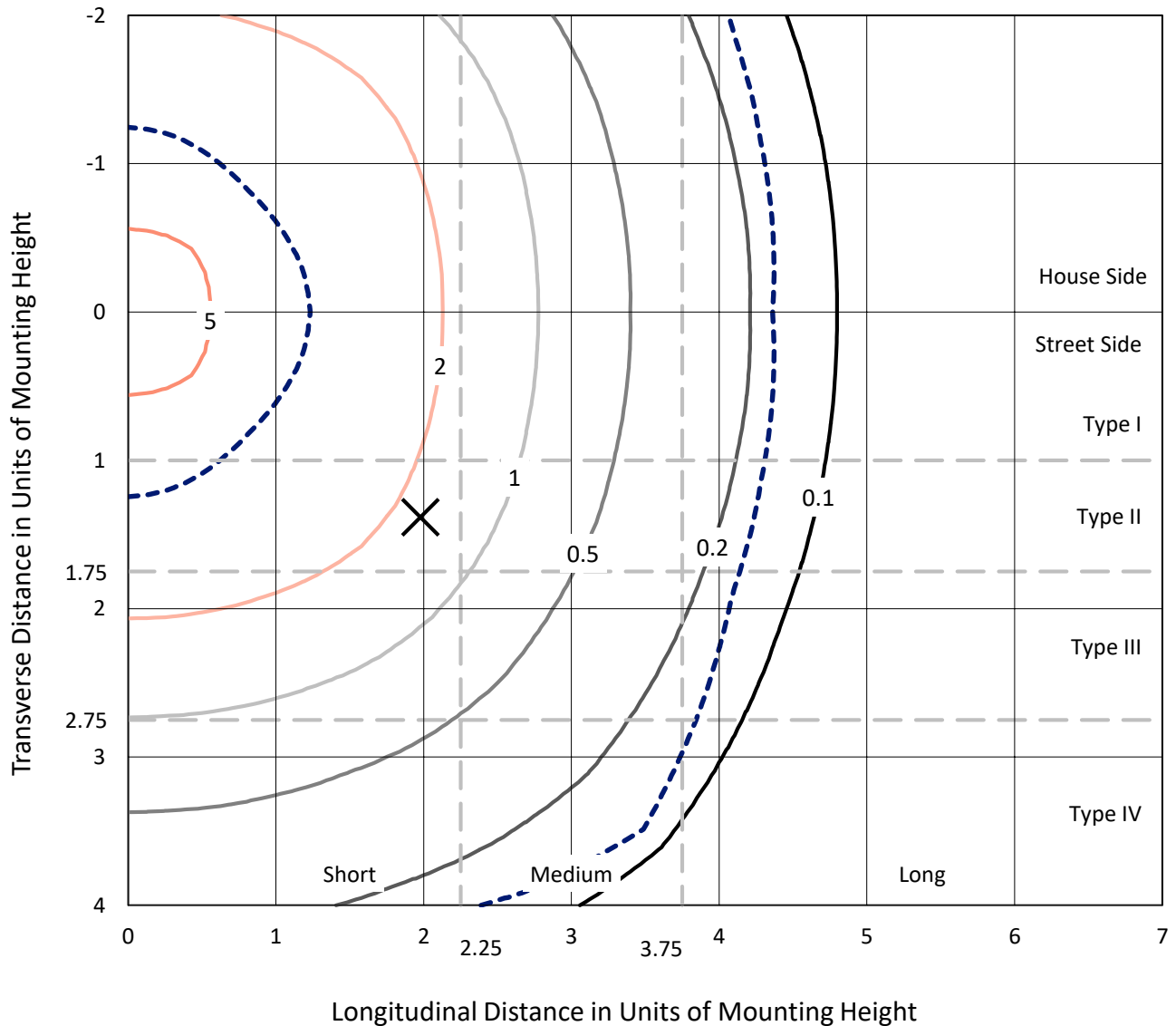
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

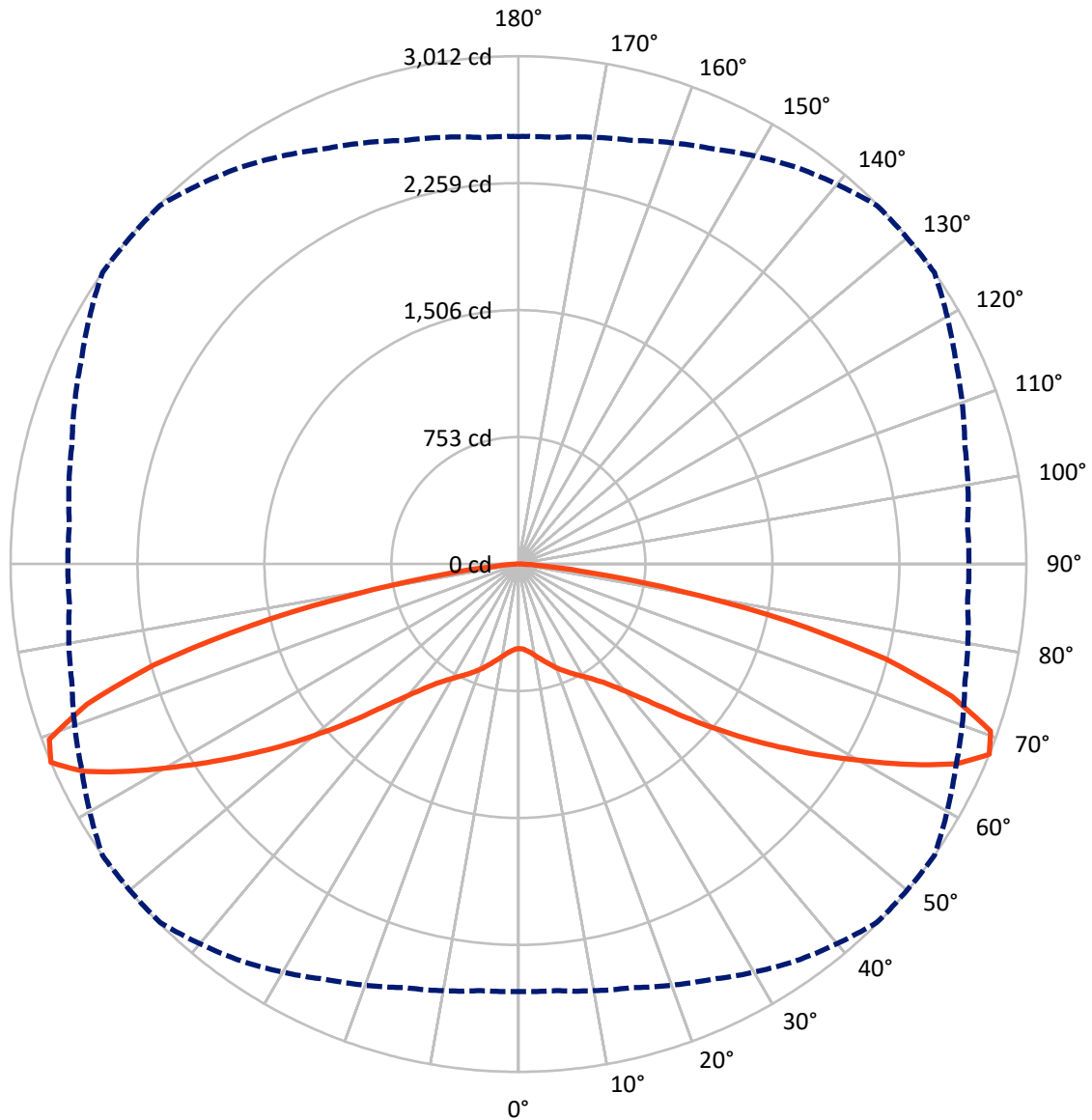
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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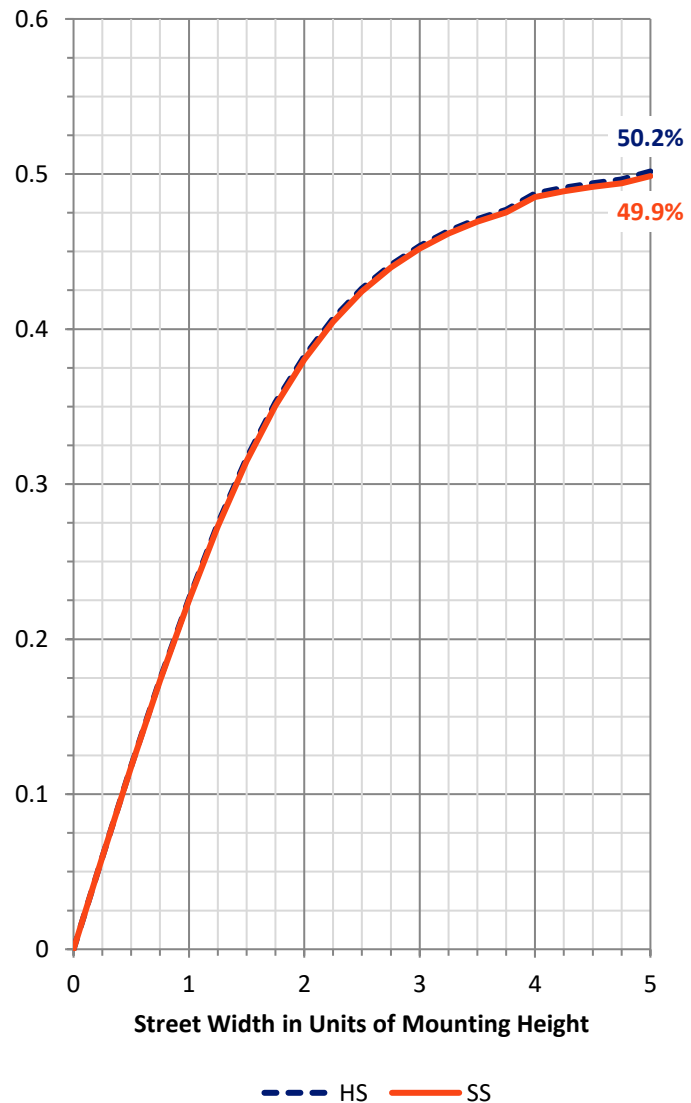
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4325.9	0.0	4325.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4325.9	0.0	4325.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8651.7	0.0	8651.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	0.6
10°-20°	172.1	2.0
20°-30°	331.0	3.8
30°-40°	542.2	6.3
40°-50°	942.6	10.9
50°-60°	1682.5	19.4
60°-70°	2597.7	30.0
70°-80°	2102.8	24.3
80°-90°	230.4	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°	8651.7	100.0
0°-180°	8651.7	100.0



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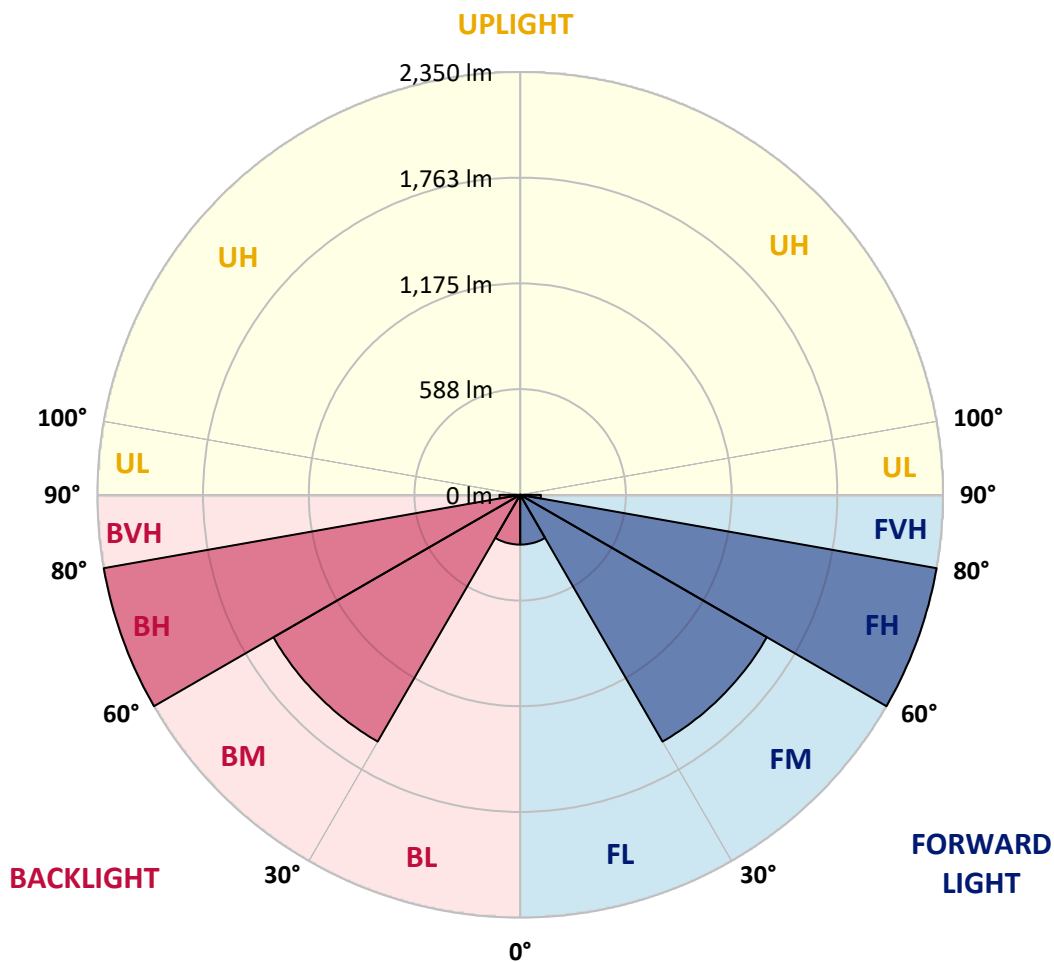
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.8	3.2			
FM	(30°-60°)	1583.7	18.3			
FH	(60°-80°)	2350.3	27.2			G2/5000
FVH	(80°-90°)	115.2	1.3			G2/225
BL	(0°-30°)	276.8	3.2	B1/500		
BM	(30°-60°)	1583.7	18.3	B2/2500		
BH	(60°-80°)	2350.3	27.2	B3/2500		G2/5000
BVH	(80°-90°)	115.2	1.3			G2/225
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°	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0
2.5°	505.3	505.8	505.3	505.3	504.7	504.7	504.7	505.3	505.3	506.3	505.8
5°	515.7	516.2	515.1	516.2	516.2	516.8	516.2	515.7	516.2	516.8	515.1
7.5°	530.5	531.5	531.0	531.5	532.1	531.5	531.5	531.0	532.1	531.5	530.5
10°	549.7	550.7	550.2	551.3	551.8	552.4	552.4	551.3	550.7	550.7	550.2
12.5°	572.7	572.7	572.7	574.3	575.4	576.5	575.9	574.9	573.2	573.8	571.6
15°	597.9	599.0	599.0	599.5	602.3	602.8	602.3	600.6	600.1	599.0	597.9
17.5°	625.8	626.4	626.9	627.5	630.8	632.4	630.2	627.5	627.5	626.9	626.9
20°	654.9	654.3	655.4	656.5	658.7	660.4	659.8	657.1	654.9	656.5	656.0
22.5°	681.7	682.3	682.8	684.5	688.3	688.9	687.2	685.0	682.3	682.8	682.8
25°	706.9	707.5	708.6	710.8	715.1	717.9	715.7	712.4	708.6	708.6	709.1
27.5°	732.7	733.3	733.8	737.6	743.1	746.4	744.7	739.3	734.9	733.8	732.1
30°	761.2	761.2	762.3	767.2	774.4	778.2	776.0	769.4	762.8	761.8	761.8
32.5°	797.3	795.2	796.8	803.4	811.1	815.5	813.8	806.1	797.9	796.3	796.3
35°	840.7	839.6	840.7	848.3	857.6	864.2	860.4	853.3	844.5	842.8	841.7
37.5°	892.1	892.7	896.0	904.7	917.3	925.6	921.8	910.3	899.8	899.8	899.8
40°	957.4	958.4	965.0	978.2	996.3	1003.4	999.0	984.8	972.7	968.3	969.4
42.5°	1046.2	1045.6	1056.0	1072.4	1093.8	1104.2	1097.1	1081.8	1064.2	1057.1	1057.7
45°	1150.8	1158.5	1169.5	1190.3	1217.2	1235.2	1222.6	1205.6	1179.3	1168.9	1168.4
47.5°	1277.4	1285.6	1299.4	1333.9	1366.2	1388.1	1378.3	1350.3	1312.5	1297.7	1292.2
50°	1421.5	1432.0	1449.5	1493.9	1539.9	1564.6	1547.0	1510.3	1469.8	1447.3	1441.8
52.5°	1583.8	1587.1	1613.3	1667.0	1724.0	1754.2	1734.5	1690.6	1638.5	1617.7	1602.4
55°	1763.5	1766.2	1796.4	1857.2	1921.9	1957.5	1932.3	1876.9	1828.7	1792.6	1795.8
57.5°	1930.1	1938.3	1982.7	2053.9	2130.1	2173.4	2146.0	2087.4	2036.9	1995.8	2000.8
60°	2108.2	2117.0	2163.5	2248.5	2351.5	2409.1	2373.4	2310.4	2258.3	2219.5	2214.5
62.5°	2297.3	2302.2	2353.1	2429.3	2560.9	2653.4	2619.5	2549.9	2489.0	2450.7	2446.9
65°	2472.1	2478.7	2521.9	2605.3	2740.6	2876.0	2856.8	2760.3	2678.1	2622.8	2615.1
67.5°	2535.7	2540.0	2600.9	2717.6	2873.2	3007.0	3012.4	2860.6	2741.2	2673.7	2672.1
70°	2461.1	2464.4	2542.2	2680.9	2879.2	2990.5	2970.8	2818.4	2671.6	2588.8	2580.6
72.5°	2294.0	2294.5	2365.7	2483.6	2682.5	2773.5	2689.6	2605.8	2454.0	2392.1	2375.6
75°	1989.8	1990.4	2039.7	2118.1	2260.0	2343.8	2248.5	2171.8	2082.4	2045.7	2026.6
77.5°	1368.4	1376.6	1427.6	1518.0	1673.6	1766.2	1641.3	1502.1	1447.9	1416.6	1398.0
80°	658.7	671.3	730.0	819.3	982.0	1130.0	976.0	804.5	698.7	612.7	628.0
82.5°	175.9	178.1	228.5	328.3	457.6	537.1	436.2	305.2	192.4	129.4	118.4
85°	46.6	49.3	69.1	94.8	144.1	183.6	140.3	89.3	68.0	50.4	46.0
87.5°	12.6	14.8	24.1	29.0	36.2	29.0	36.2	31.3	30.1	15.9	11.5
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)