

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: P157558

Luminaire Tested: **VST-E04-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157558
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10659.6 lumens
Efficiency: N/A
Efficacy: 109.7 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



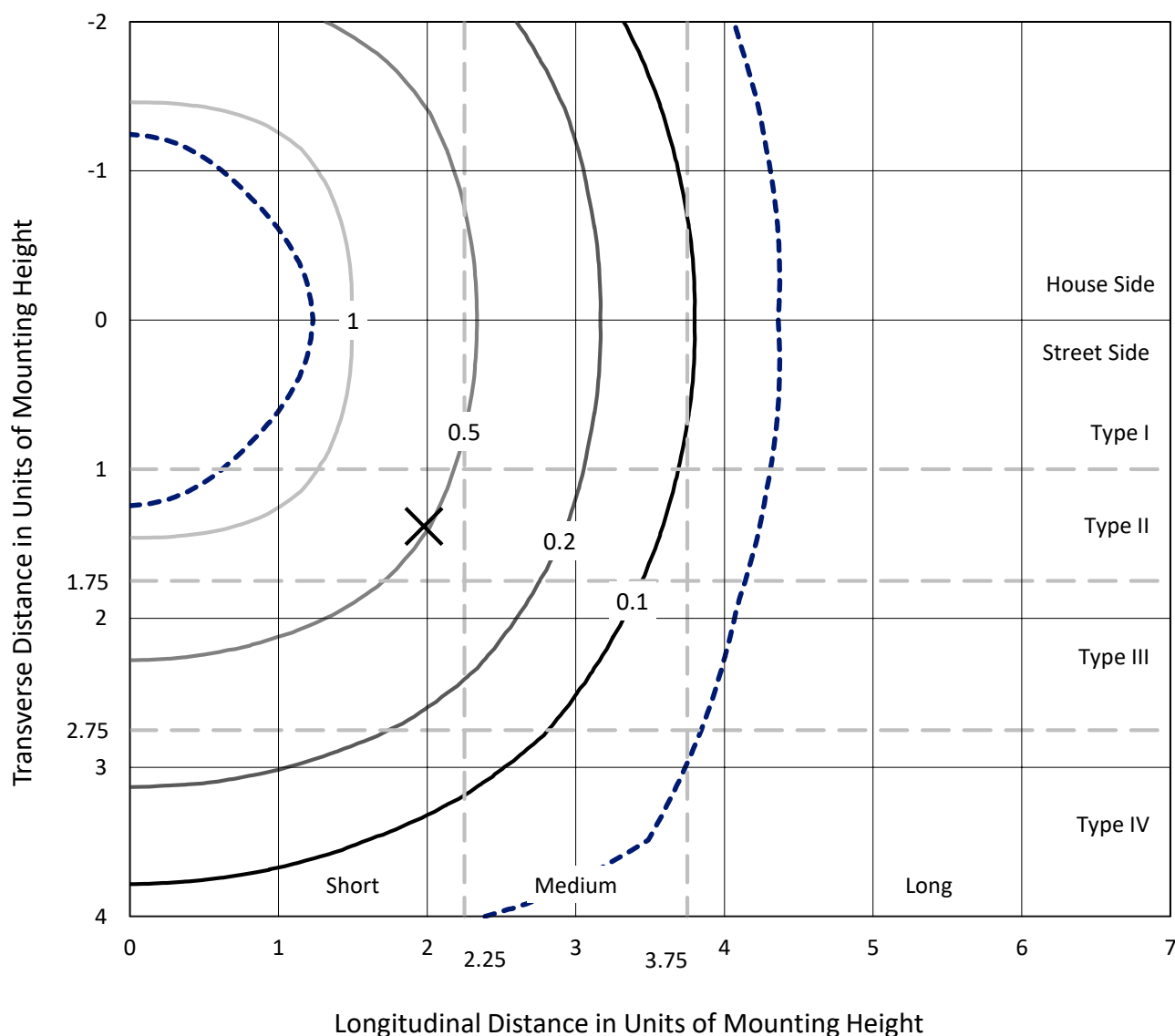
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

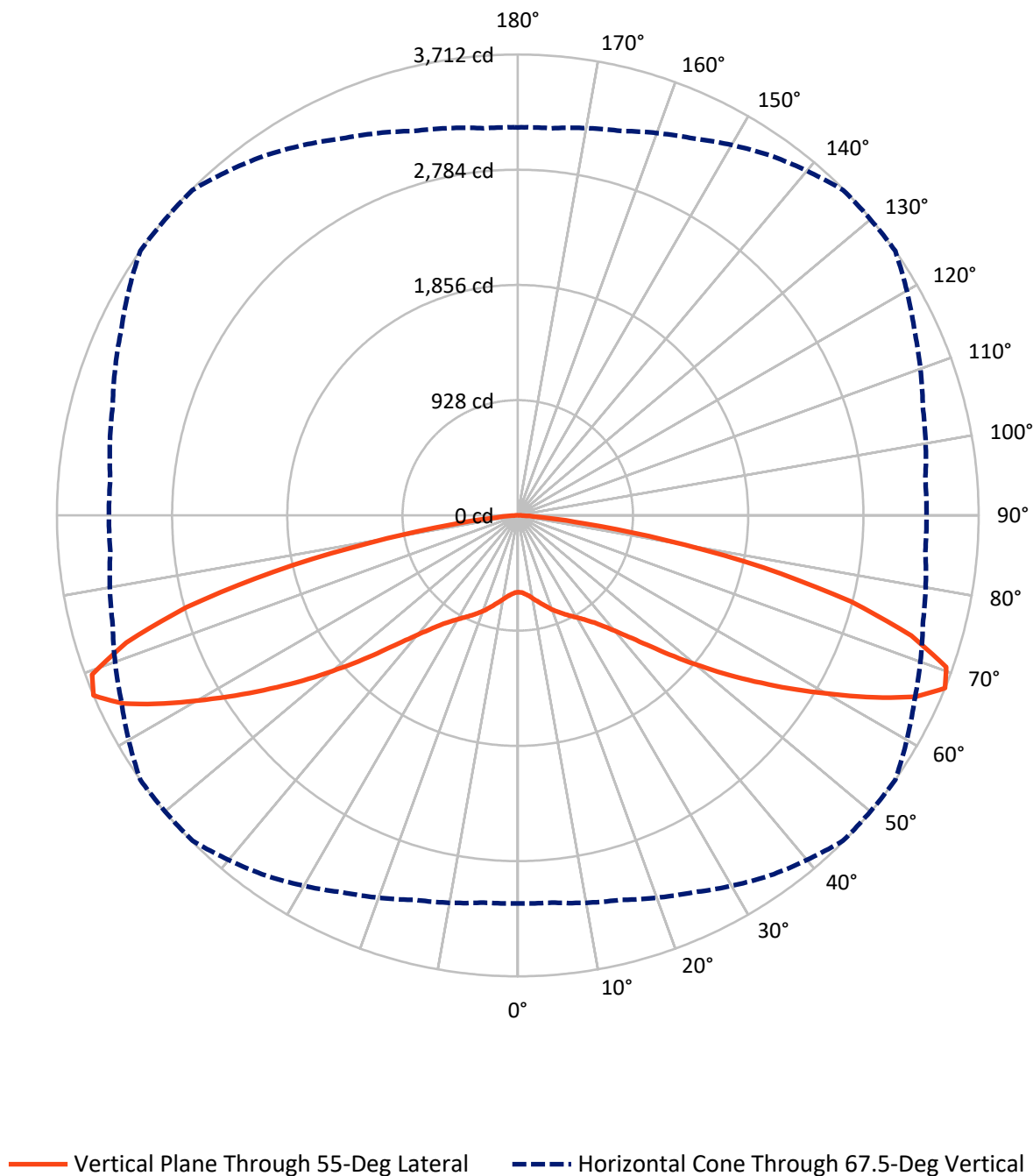


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5329.8	0.0	5329.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5329.8	0.0	5329.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10659.6	0.0	10659.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	0.6
10°-20°	212.1	2.0
20°-30°	407.8	3.8
30°-40°	668.1	6.3
40°-50°	1161.4	10.9
50°-60°	2073.0	19.4
60°-70°	3200.5	30.0
70°-80°	2590.8	24.3
80°-90°	283.8	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°	10659.6	100.0
0°-180°	10659.6	100.0

Coefficient of Utilization



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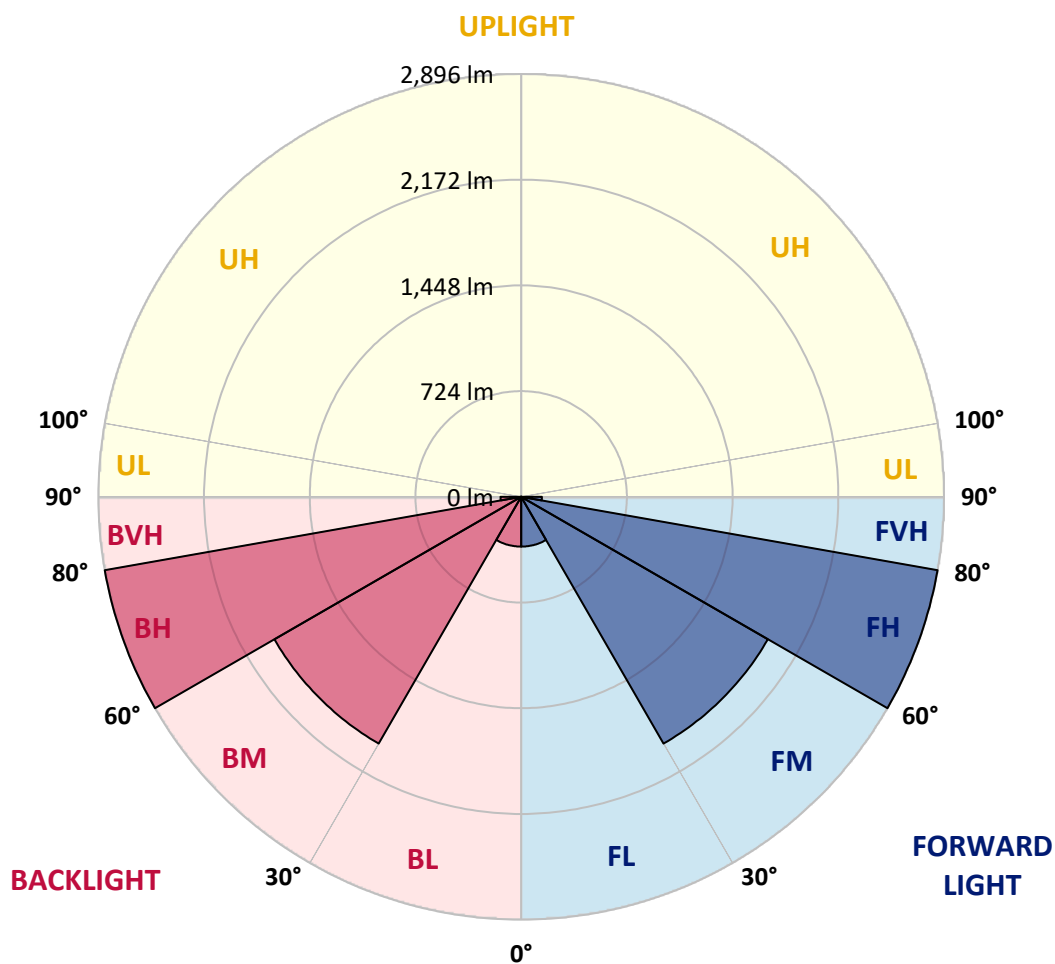
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.0	3.2			
FM	(30°-60°)	1951.2	18.3			
FH	(60°-80°)	2895.7	27.2			G2/5000
FVH	(80°-90°)	141.9	1.3			G2/225
BL	(0°-30°)	341.0	3.2	B1/500		
BM	(30°-60°)	1951.2	18.3	B2/2500		
BH	(60°-80°)	2895.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	141.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.5
2.5°	622.5	623.2	622.5	622.5	621.9	621.9	621.9	622.5	622.5	623.9	623.2
5°	635.4	636.0	634.7	636.0	636.0	636.7	636.0	635.4	636.0	636.7	634.7
7.5°	653.6	654.9	654.3	654.9	655.6	654.9	654.9	654.3	655.6	654.9	653.6
10°	677.2	678.6	677.9	679.2	679.9	680.6	680.6	679.2	678.6	678.6	677.9
12.5°	705.6	705.6	705.6	707.6	709.0	710.3	709.6	708.3	706.3	706.9	704.2
15°	736.6	738.0	738.0	738.7	742.0	742.7	742.0	740.0	739.3	738.0	736.6
17.5°	771.1	771.7	772.4	773.1	777.1	779.2	776.5	773.1	773.1	772.4	772.4
20°	806.9	806.2	807.5	808.9	811.6	813.6	812.9	809.6	806.9	808.9	808.2
22.5°	839.9	840.6	841.3	843.3	848.0	848.7	846.7	844.0	840.6	841.3	841.3
25°	871.0	871.7	873.0	875.7	881.1	884.5	881.8	877.8	873.0	873.0	873.7
27.5°	902.7	903.4	904.1	908.8	915.6	919.6	917.6	910.8	905.4	904.1	902.1
30°	937.8	937.8	939.2	945.3	954.0	958.8	956.1	948.0	939.9	938.5	938.5
32.5°	982.4	979.7	981.7	989.8	999.3	1004.7	1002.7	993.2	983.1	981.1	981.1
35°	1035.7	1034.4	1035.7	1045.2	1056.7	1064.8	1060.1	1051.3	1040.5	1038.4	1037.1
37.5°	1099.2	1099.9	1103.9	1114.7	1130.3	1140.4	1135.7	1121.5	1108.7	1108.7	1108.7
40°	1179.6	1180.9	1189.0	1205.2	1227.5	1236.3	1230.9	1213.3	1198.5	1193.1	1194.4
42.5°	1288.9	1288.3	1301.1	1321.4	1347.7	1360.5	1351.7	1332.8	1311.2	1302.4	1303.1
45°	1417.9	1427.4	1440.9	1466.5	1499.6	1521.9	1506.4	1485.4	1453.0	1440.2	1439.5
47.5°	1573.9	1584.0	1600.9	1643.4	1683.3	1710.3	1698.1	1663.7	1617.1	1598.9	1592.1
50°	1751.4	1764.3	1785.9	1840.6	1897.3	1927.7	1906.1	1860.8	1810.9	1783.2	1776.4
52.5°	1951.3	1955.4	1987.8	2053.9	2124.2	2161.3	2137.0	2083.0	2018.8	1993.2	1974.3
55°	2172.8	2176.1	2213.3	2288.2	2367.9	2411.8	2380.7	2312.5	2253.1	2208.6	2212.6
57.5°	2378.0	2388.2	2442.8	2530.6	2624.5	2677.8	2644.1	2571.8	2509.7	2459.1	2465.1
60°	2597.5	2608.3	2665.7	2770.3	2897.3	2968.1	2924.3	2846.6	2782.5	2734.5	2728.5
62.5°	2830.4	2836.5	2899.3	2993.1	3155.2	3269.3	3227.4	3141.7	3066.7	3019.5	3014.7
65°	3045.8	3053.9	3107.2	3209.9	3376.6	3543.4	3519.8	3400.9	3299.7	3231.5	3222.0
67.5°	3124.1	3129.5	3204.5	3348.3	3540.0	3704.8	3711.5	3524.5	3377.3	3294.3	3292.2
70°	3032.3	3036.3	3132.2	3303.0	3547.5	3684.5	3660.2	3472.5	3291.6	3189.6	3179.5
72.5°	2826.4	2827.0	2914.8	3060.0	3305.1	3417.2	3313.8	3210.5	3023.5	2947.2	2927.0
75°	2451.6	2452.3	2513.1	2609.6	2784.5	2887.8	2770.3	2675.8	2565.7	2520.5	2496.9
77.5°	1686.0	1696.1	1758.9	1870.3	2062.0	2176.1	2022.2	1850.7	1783.9	1745.4	1722.4
80°	811.6	827.1	899.4	1009.4	1209.9	1392.2	1202.5	991.2	860.9	754.9	773.8
82.5°	216.7	219.4	281.6	404.4	563.8	661.7	537.5	376.1	237.0	159.3	145.8
85°	57.4	60.8	85.1	116.8	177.6	226.2	172.8	110.1	83.7	62.1	56.7
87.5°	15.5	18.2	29.7	35.8	44.6	35.8	44.6	38.5	37.1	19.6	14.2
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)