

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: P157565

Luminaire Tested: **VST-F04-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157565
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-F04-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10426.3 lumens
Efficiency: N/A
Efficacy: 102.0 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): 102.2
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

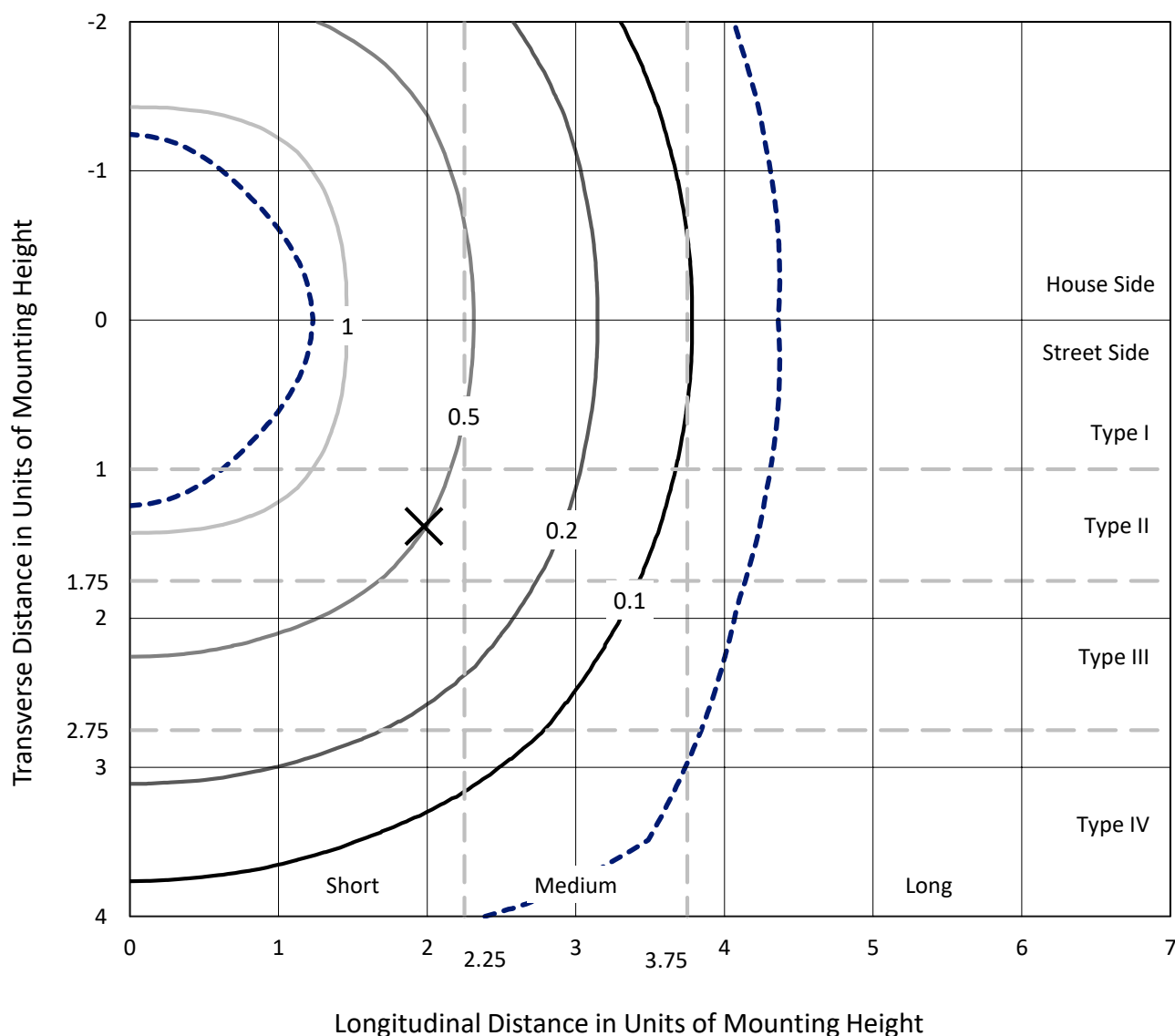


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

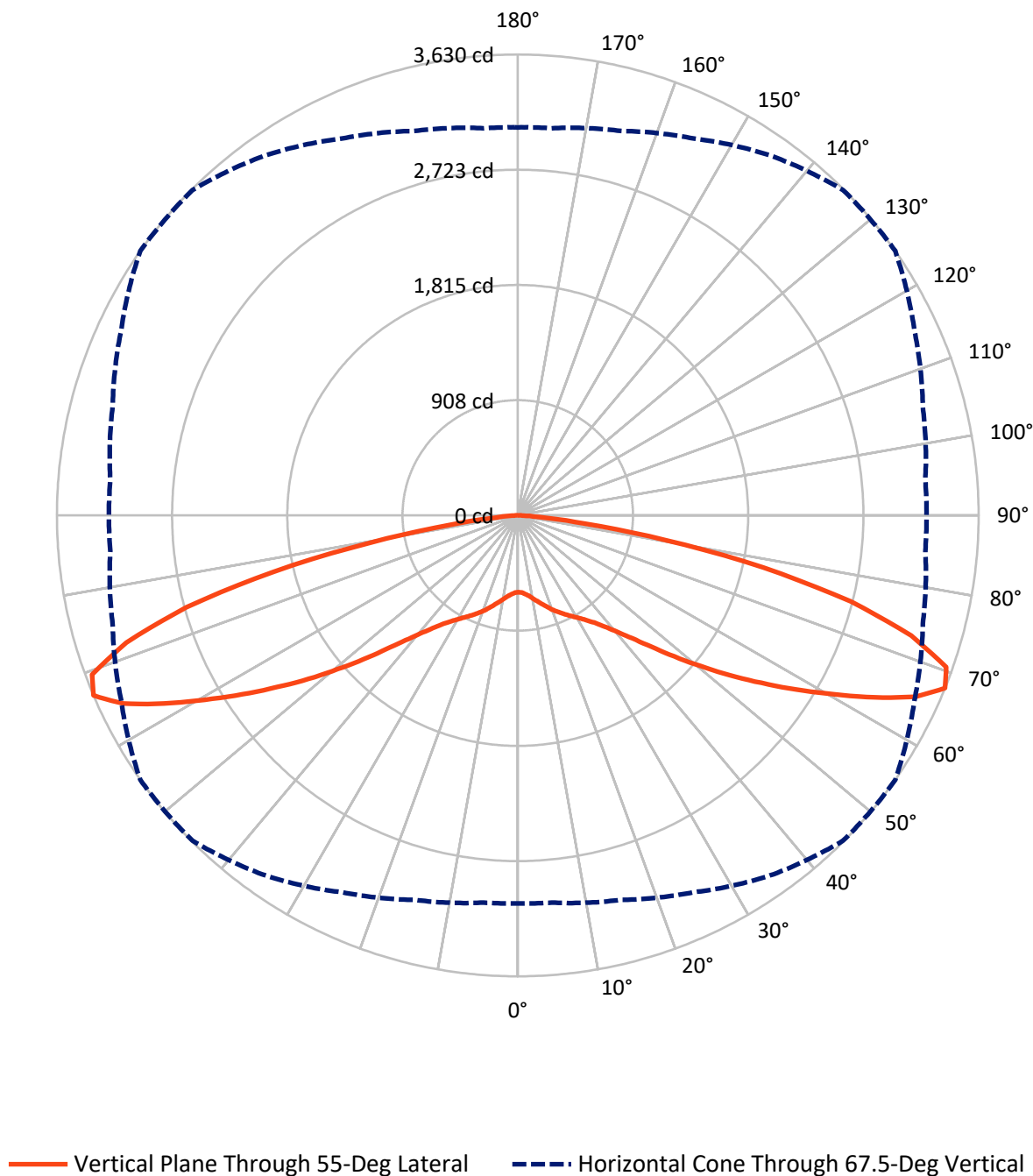


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5213.2	0.0	5213.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5213.2	0.0	5213.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10426.3	0.0	10426.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	0.6
10°-20°	207.4	2.0
20°-30°	398.9	3.8
30°-40°	653.4	6.3
40°-50°	1136.0	10.9
50°-60°	2027.6	19.4
60°-70°	3130.5	30.0
70°-80°	2534.2	24.3
80°-90°	277.6	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°	10426.3	100.0
0°-180°	10426.3	100.0

Coefficient of Utilization



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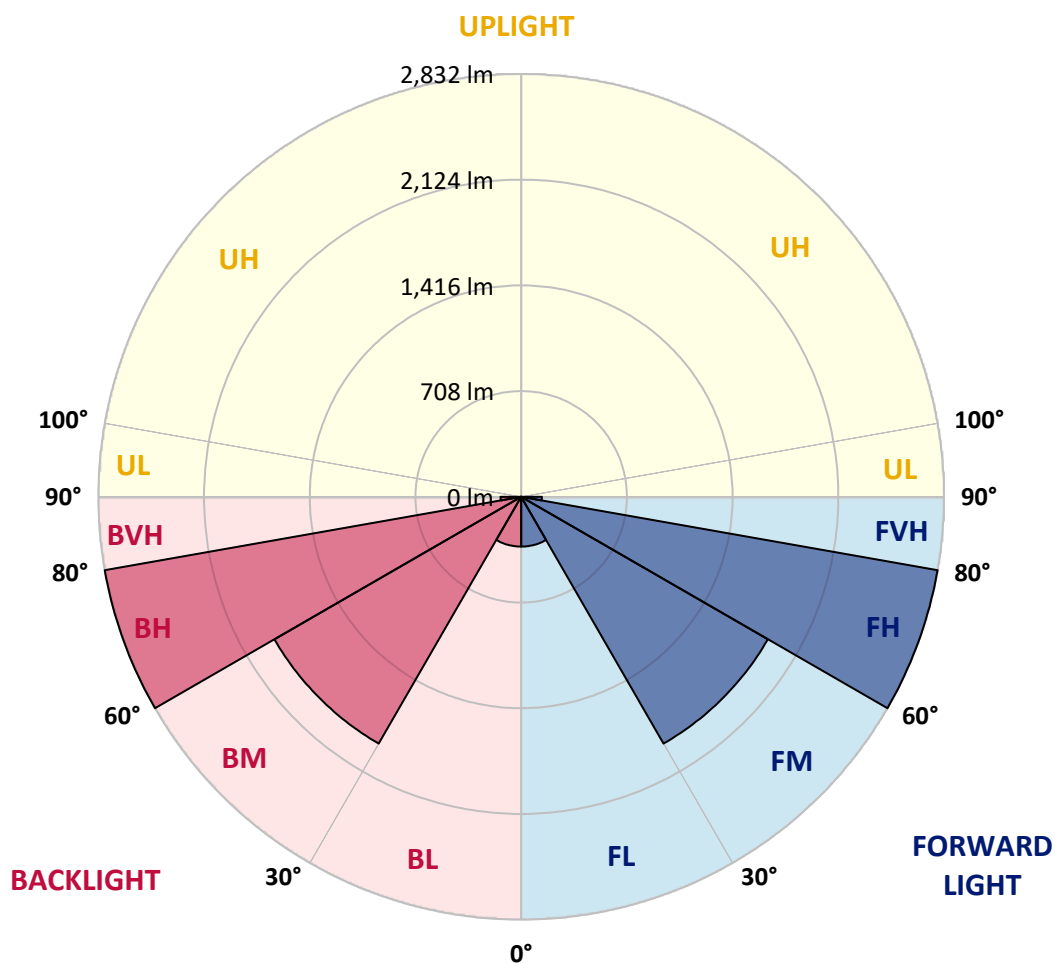
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.5	3.2			
FM	(30°-60°)	1908.5	18.3			
FH	(60°-80°)	2832.3	27.2			G2/5000
FVH	(80°-90°)	138.8	1.3			G2/225
BL	(0°-30°)	333.5	3.2	B1/500		
BM	(30°-60°)	1908.5	18.3	B2/2500		
BH	(60°-80°)	2832.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	138.8	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°	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9
2.5°	608.9	609.6	608.9	608.9	608.2	608.2	608.2	608.9	608.9	610.2	609.6
5°	621.5	622.1	620.8	622.1	622.1	622.8	622.1	621.5	622.1	622.8	620.8
7.5°	639.3	640.6	639.9	640.6	641.3	640.6	640.6	639.9	641.3	640.6	639.3
10°	662.4	663.7	663.1	664.4	665.0	665.7	665.7	664.4	663.7	663.7	663.1
12.5°	690.1	690.1	690.1	692.1	693.4	694.8	694.1	692.8	690.8	691.5	688.8
15°	720.5	721.8	721.8	722.5	725.8	726.5	725.8	723.8	723.2	721.8	720.5
17.5°	754.2	754.9	755.5	756.2	760.1	762.1	759.5	756.2	756.2	755.5	755.5
20°	789.2	788.5	789.9	791.2	793.8	795.8	795.1	791.8	789.2	791.2	790.5
22.5°	821.6	822.2	822.9	824.9	829.5	830.1	828.2	825.5	822.2	822.9	822.9
25°	851.9	852.6	853.9	856.6	861.8	865.2	862.5	858.5	853.9	853.9	854.6
27.5°	883.0	883.6	884.3	888.9	895.5	899.5	897.5	890.9	885.6	884.3	882.3
30°	917.3	917.3	918.6	924.6	933.2	937.8	935.2	927.2	919.3	918.0	918.0
32.5°	960.9	958.3	960.3	968.2	977.4	982.7	980.7	971.5	961.6	959.6	959.6
35°	1013.1	1011.8	1013.1	1022.3	1033.6	1041.5	1036.9	1028.3	1017.7	1015.7	1014.4
37.5°	1075.2	1075.8	1079.8	1090.4	1105.5	1115.4	1110.8	1097.0	1084.4	1084.4	1084.4
40°	1153.8	1155.1	1163.0	1178.8	1200.6	1209.2	1203.9	1186.8	1172.2	1167.0	1168.3
42.5°	1260.7	1260.1	1272.6	1292.4	1318.2	1330.7	1322.2	1303.7	1282.5	1274.0	1274.6
45°	1386.9	1396.1	1409.3	1434.4	1466.8	1488.6	1473.4	1452.9	1421.2	1408.7	1408.0
47.5°	1539.4	1549.3	1565.9	1607.5	1646.4	1672.8	1661.0	1627.3	1581.7	1563.9	1557.3
50°	1713.1	1725.7	1746.8	1800.3	1855.8	1885.5	1864.4	1820.1	1771.2	1744.2	1737.6
52.5°	1908.6	1912.6	1944.3	2009.0	2077.7	2114.0	2090.2	2037.4	1974.7	1949.6	1931.1
55°	2125.2	2128.5	2164.9	2238.2	2316.1	2359.0	2328.6	2261.9	2203.8	2160.2	2164.2
57.5°	2326.0	2335.9	2389.4	2475.3	2567.1	2619.2	2586.2	2515.5	2454.8	2405.2	2411.2
60°	2540.6	2551.2	2607.3	2709.7	2833.9	2903.2	2860.3	2784.3	2721.6	2674.7	2668.8
62.5°	2768.5	2774.4	2835.8	2927.6	3086.1	3197.8	3156.8	3072.9	2999.6	2953.4	2948.8
65°	2979.2	2987.1	3039.3	3139.6	3302.8	3465.9	3442.8	3326.5	3227.5	3160.8	3151.5
67.5°	3055.8	3061.0	3134.4	3275.0	3462.6	3623.7	3630.3	3447.4	3303.4	3222.2	3220.2
70°	2965.9	2969.9	3063.7	3230.8	3469.8	3603.9	3580.1	3396.5	3219.5	3119.8	3109.9
72.5°	2764.5	2765.2	2851.0	2993.0	3232.8	3342.4	3241.3	3140.3	2957.4	2882.7	2862.9
75°	2398.0	2398.6	2458.1	2552.5	2723.6	2824.6	2709.7	2617.2	2509.6	2465.3	2442.2
77.5°	1649.1	1659.0	1720.4	1829.4	2016.9	2128.5	1978.0	1810.2	1744.8	1707.2	1684.7
80°	793.8	809.0	879.7	987.3	1183.5	1361.8	1176.2	969.5	842.0	738.3	756.8
82.5°	212.0	214.6	275.4	395.6	551.5	647.2	525.7	367.9	231.8	155.9	142.7
85°	56.1	59.4	83.2	114.3	173.7	221.2	169.1	107.6	81.9	60.8	55.5
87.5°	15.2	17.8	29.1	35.0	43.6	35.0	43.6	37.6	36.3	19.2	13.9
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)