

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: P157615

Luminaire Tested: **VST-F09-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157615
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-F09-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23459.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 234.8
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



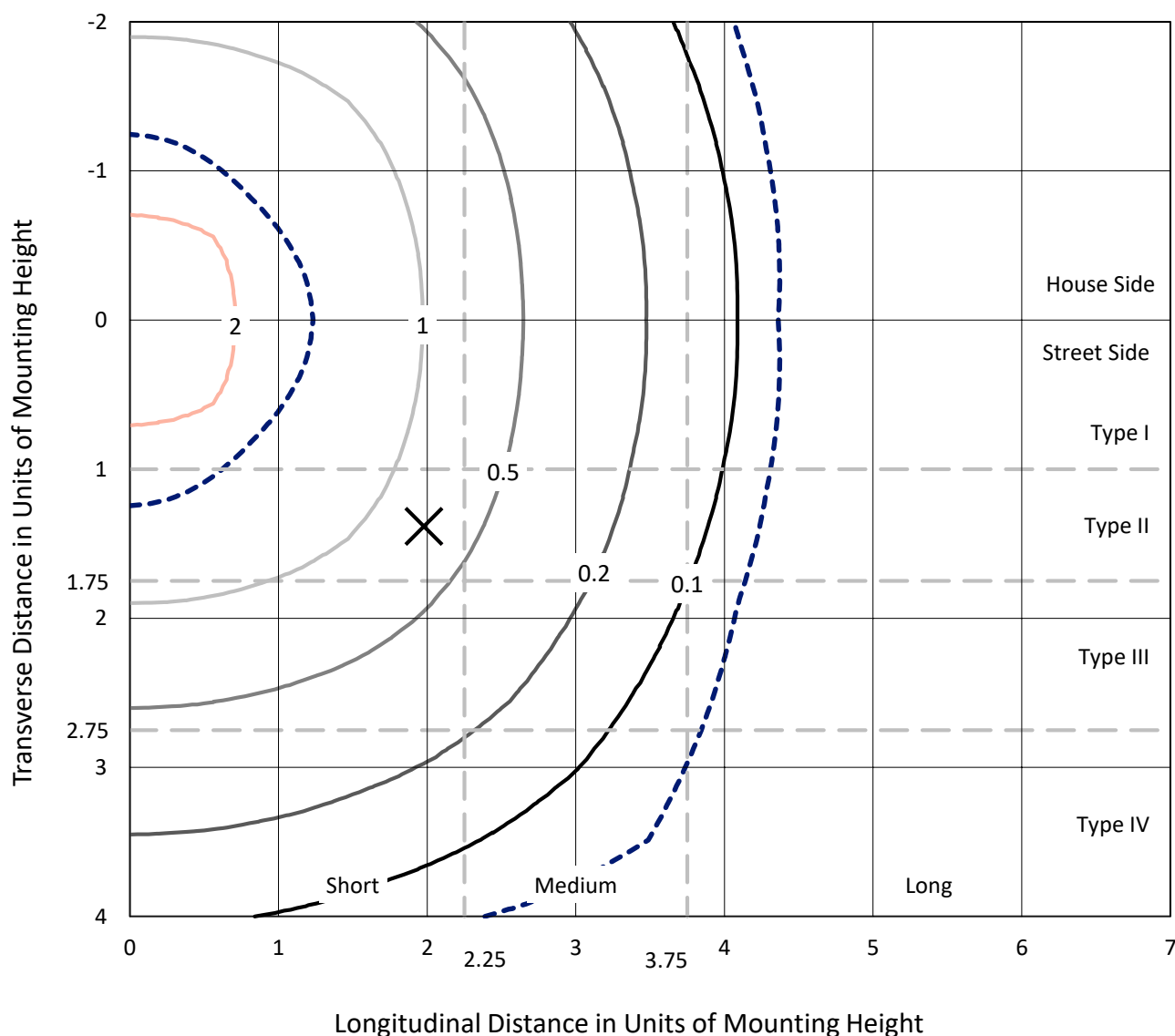
REPORT NUMBER: P157615

CATALOG NUMBER: VST-F09-LED-E-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



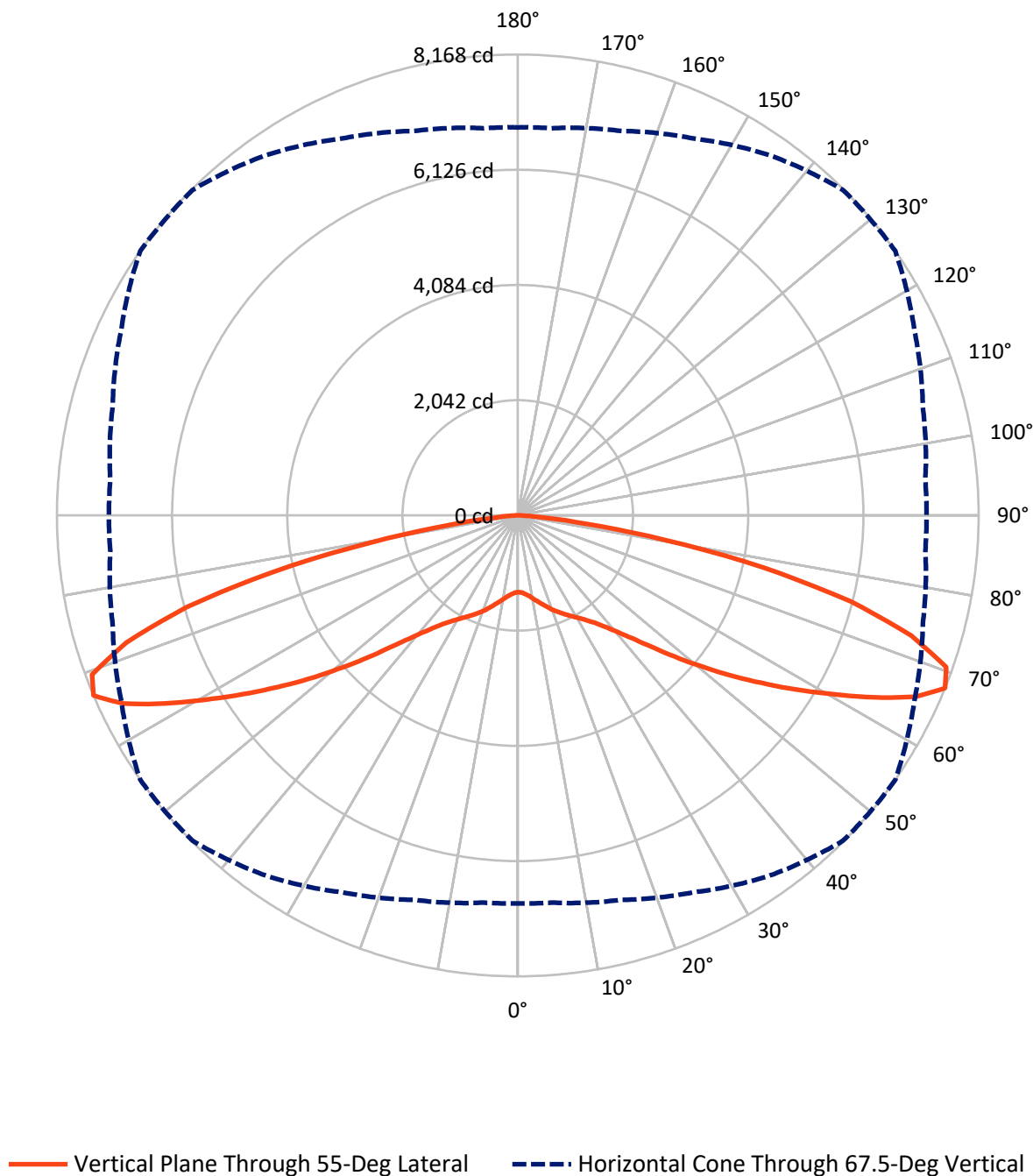
Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type V - Short - Semi-Cutoff

REPORT NUMBER: P157615

CATALOG NUMBER: VST-F09-LED-E-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P157615

CATALOG NUMBER: VST-F09-LED-E-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11729.7	0.0	11729.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11729.7	0.0	11729.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23459.3	0.0	23459.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	0.6
10°-20°	466.8	2.0
20°-30°	897.5	3.8
30°-40°	1470.2	6.3
40°-50°	2555.9	10.9
50°-60°	4562.1	19.4
60°-70°	7043.7	30.0
70°-80°	5701.9	24.3
80°-90°	624.6	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°	23459.3	100.0
0°-180°	23459.3	100.0

Coefficient of Utilization



REPORT NUMBER: P157615

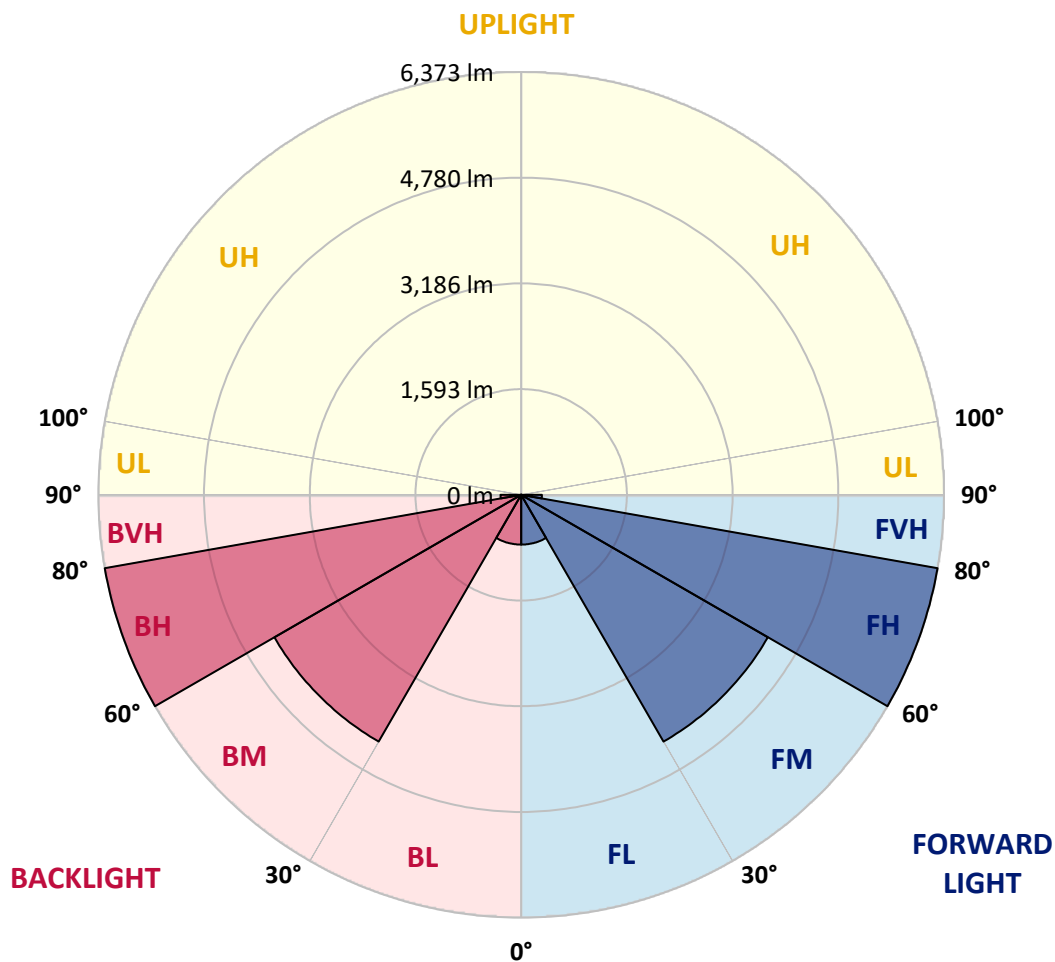
CATALOG NUMBER: VST-F09-LED-E-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.4	3.2			
FM	(30°-60°)	4294.2	18.3			
FH	(60°-80°)	6372.8	27.2			G3/7500
FVH	(80°-90°)	312.3	1.3			G3/500
BL	(0°-30°)	750.4	3.2	B2/1000		
BM	(30°-60°)	4294.2	18.3	B3/5000		
BH	(60°-80°)	6372.8	27.2	B5		G3/7500
BVH	(80°-90°)	312.3	1.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P157615

CATALOG NUMBER: VST-F09-LED-E-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1	1361.1
2.5°	1370.0	1371.5	1370.0	1370.0	1368.6	1368.6	1368.6	1370.0	1370.0	1373.0	1371.5
5°	1398.3	1399.8	1396.8	1399.8	1399.8	1401.2	1399.8	1398.3	1399.8	1401.2	1396.8
7.5°	1438.4	1441.4	1439.9	1441.4	1442.9	1441.4	1441.4	1439.9	1442.9	1441.4	1438.4
10°	1490.4	1493.4	1491.9	1494.9	1496.3	1497.8	1497.8	1494.9	1493.4	1493.4	1491.9
12.5°	1552.8	1552.8	1552.8	1557.3	1560.2	1563.2	1561.7	1558.8	1554.3	1555.8	1549.8
15°	1621.2	1624.1	1624.1	1625.6	1633.1	1634.5	1633.1	1628.6	1627.1	1624.1	1621.2
17.5°	1696.9	1698.4	1699.9	1701.4	1710.3	1714.8	1708.8	1701.4	1701.4	1699.9	1699.9
20°	1775.7	1774.2	1777.2	1780.2	1786.1	1790.6	1789.1	1781.6	1775.7	1780.2	1778.7
22.5°	1848.5	1850.0	1851.5	1855.9	1866.3	1867.8	1863.4	1857.4	1850.0	1851.5	1851.5
25°	1916.9	1918.4	1921.3	1927.3	1939.2	1946.6	1940.6	1931.7	1921.3	1921.3	1922.8
27.5°	1986.7	1988.2	1989.7	2000.1	2014.9	2023.9	2019.4	2004.5	1992.7	1989.7	1985.2
30°	2064.0	2064.0	2066.9	2080.3	2099.6	2110.0	2104.1	2086.3	2068.4	2065.5	2065.5
32.5°	2162.0	2156.1	2160.6	2178.4	2199.2	2211.1	2206.6	2185.8	2163.5	2159.1	2159.1
35°	2279.4	2276.5	2279.4	2300.2	2325.5	2343.3	2332.9	2313.6	2289.8	2285.4	2282.4
37.5°	2419.1	2420.6	2429.5	2453.3	2487.5	2509.8	2499.4	2468.2	2439.9	2439.9	2439.9
40°	2595.9	2598.9	2616.7	2652.4	2701.4	2720.8	2708.9	2670.2	2637.6	2625.7	2628.6
42.5°	2836.7	2835.2	2863.4	2908.0	2965.9	2994.2	2974.9	2933.3	2885.7	2866.4	2867.9
45°	3120.5	3141.3	3171.0	3227.5	3300.3	3349.3	3315.1	3269.1	3197.8	3169.5	3168.0
47.5°	3463.7	3486.0	3523.2	3616.8	3704.5	3763.9	3737.2	3661.4	3558.8	3518.7	3503.9
50°	3854.5	3882.8	3930.3	4050.7	4175.5	4242.4	4194.8	4095.3	3985.3	3924.4	3909.5
52.5°	4294.4	4303.3	4374.6	4520.2	4674.8	4756.5	4703.0	4584.1	4443.0	4386.5	4344.9
55°	4781.8	4789.2	4870.9	5035.9	5211.2	5307.8	5239.4	5089.4	4958.6	4860.5	4869.4
57.5°	5233.5	5255.8	5376.1	5569.3	5775.9	5893.3	5819.0	5660.0	5523.3	5411.8	5425.2
60°	5716.4	5740.2	5866.5	6096.8	6376.2	6532.2	6435.6	6264.7	6123.6	6018.1	6004.7
62.5°	6229.1	6242.5	6380.6	6587.2	6943.8	7194.9	7102.8	6914.1	6749.2	6645.1	6634.7
65°	6703.1	6720.9	6838.3	7064.2	7431.2	7798.2	7746.2	7484.7	7261.8	7111.7	7090.9
67.5°	6875.5	6887.4	7052.3	7368.8	7790.8	8153.4	8168.2	7756.6	7432.7	7249.9	7245.5
70°	6673.4	6682.3	6893.3	7269.2	7807.2	8108.8	8055.3	7642.2	7244.0	7019.6	6997.3
72.5°	6220.2	6221.7	6414.8	6734.3	7273.7	7520.4	7293.0	7065.7	6654.1	6486.1	6441.6
75°	5395.5	5397.0	5530.7	5743.2	6128.0	6355.4	6096.8	5888.8	5646.6	5547.0	5495.0
77.5°	3710.4	3732.7	3870.9	4116.1	4538.1	4789.2	4450.4	4073.0	3925.9	3841.2	3790.6
80°	1786.1	1820.3	1979.3	2221.5	2662.8	3064.0	2646.5	2181.4	1894.6	1661.3	1702.9
82.5°	477.0	482.9	619.6	890.1	1240.8	1456.2	1182.8	827.7	521.6	350.7	321.0
85°	126.3	133.7	187.2	257.1	390.8	497.8	380.4	242.2	184.3	136.7	124.8
87.5°	34.2	40.1	65.4	78.8	98.1	78.8	98.1	84.7	81.7	43.1	31.2
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)