

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: P157633

Luminaire Tested: **VST-F11-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157633
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-F11-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24199.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 282.7
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

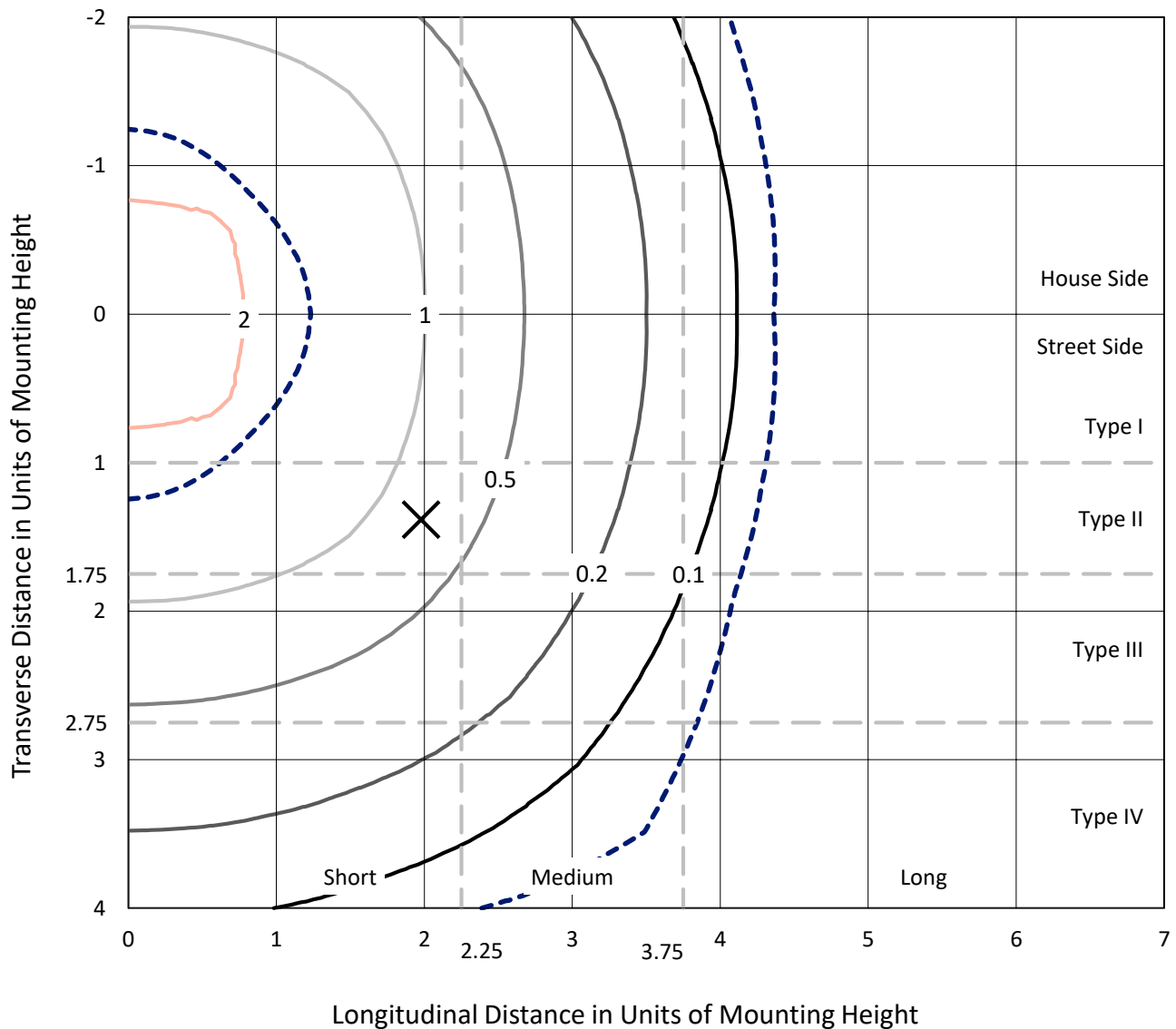


REPORT NUMBER: P157633

CATALOG NUMBER: VST-F11-LED-E-U-5WQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

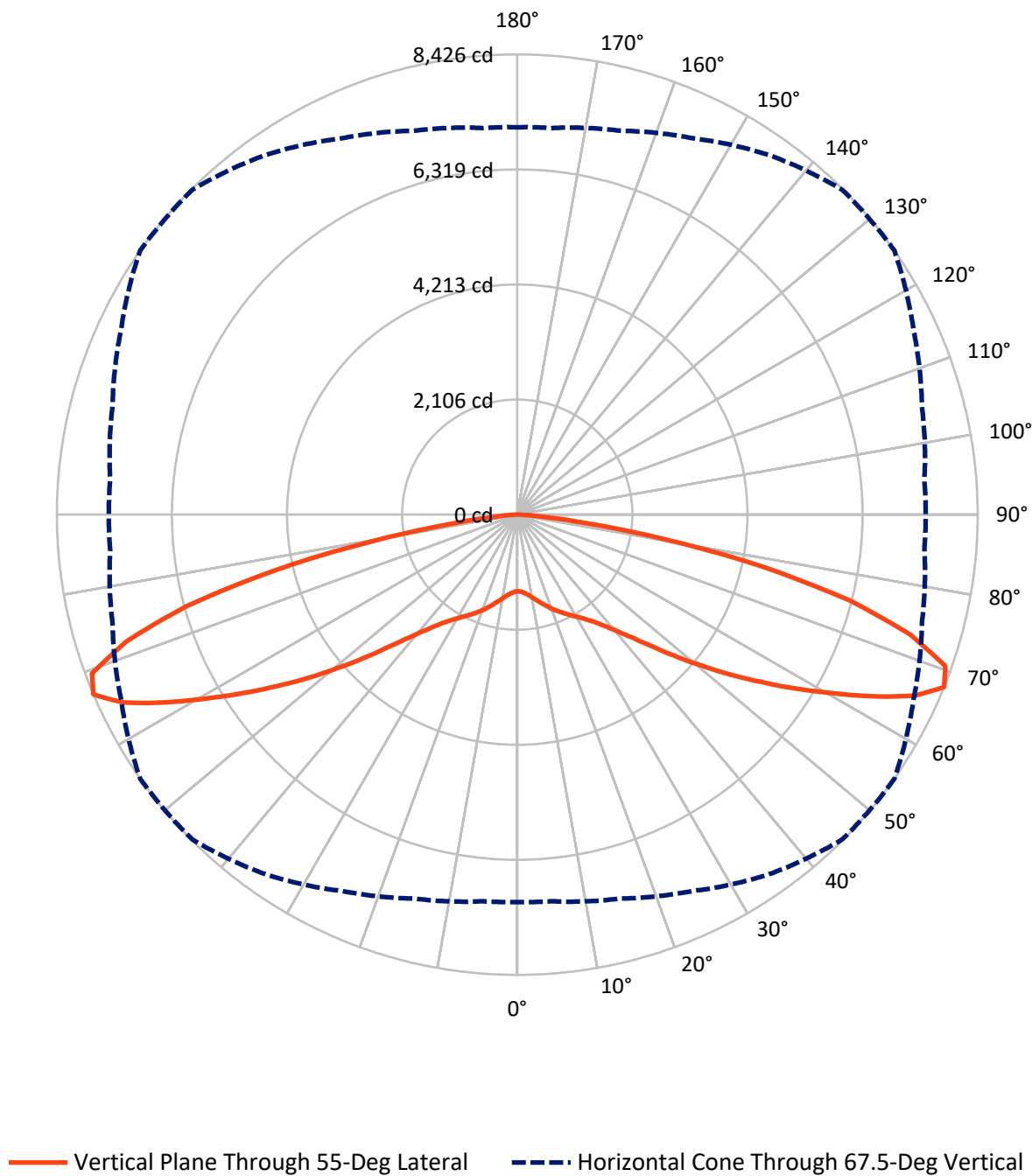


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157633

CATALOG NUMBER: VST-F11-LED-E-U-5WQ-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P157633

CATALOG NUMBER: VST-F11-LED-E-U-5WQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12099.7	0.0	12099.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12099.7	0.0	12099.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24199.3	0.0	24199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	0.6
10°-20°	481.5	2.0
20°-30°	925.8	3.8
30°-40°	1516.6	6.3
40°-50°	2636.5	10.9
50°-60°	4706.0	19.4
60°-70°	7265.9	30.0
70°-80°	5881.7	24.3
80°-90°	644.3	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°	24199.3	100.0
0°-180°	24199.3	100.0

Coefficient of Utilization



REPORT NUMBER: P157633

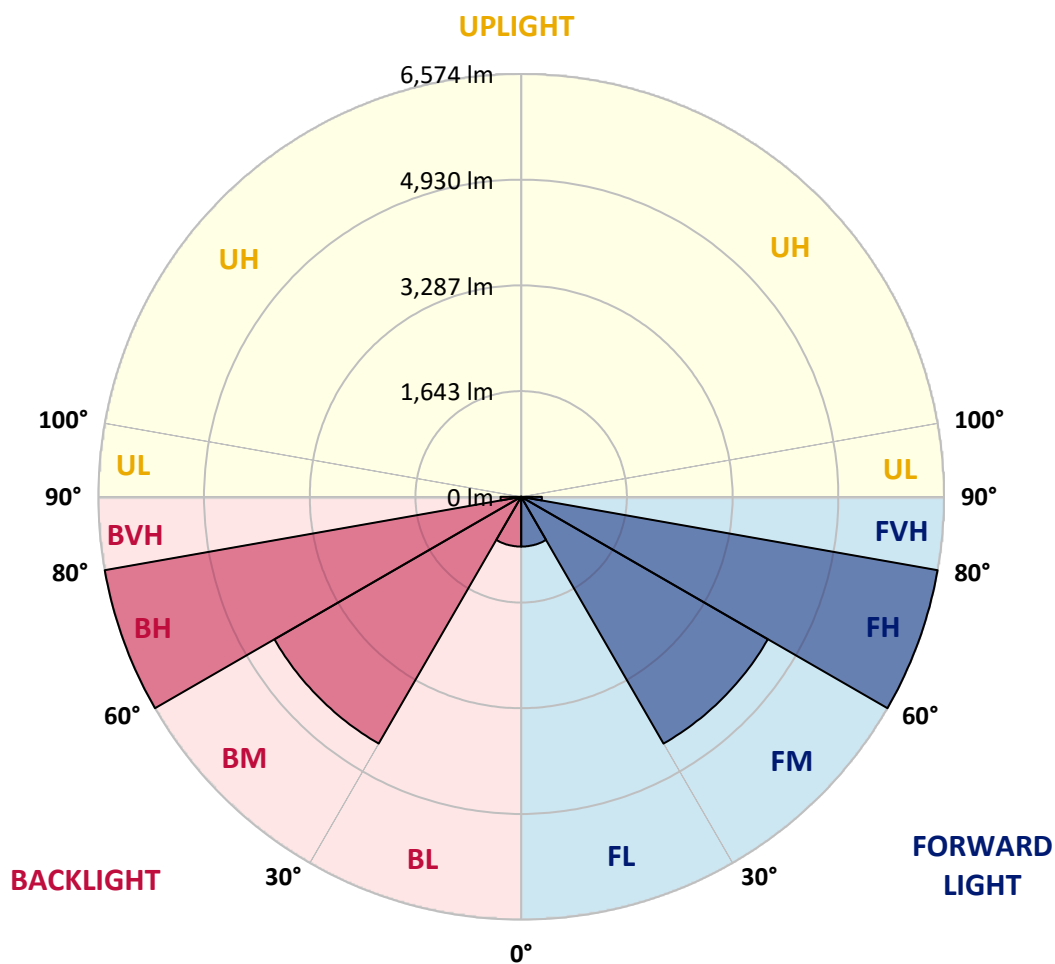
CATALOG NUMBER: VST-F11-LED-E-U-5WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.1	3.2			
FM	(30°-60°)	4429.6	18.3			
FH	(60°-80°)	6573.8	27.2			G3/7500
FVH	(80°-90°)	322.1	1.3			G3/500
BL	(0°-30°)	774.1	3.2	B2/1000		
BM	(30°-60°)	4429.6	18.3	B3/5000		
BH	(60°-80°)	6573.8	27.2	B5		G3/7500
BVH	(80°-90°)	322.1	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: P157633

CATALOG NUMBER: VST-F11-LED-E-U-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1413.3	1414.8	1413.3	1413.3	1411.7	1411.7	1411.7	1413.3	1413.3	1416.3	1414.8
5°	1442.4	1443.9	1440.8	1443.9	1443.9	1445.4	1443.9	1442.4	1443.9	1445.4	1440.8
7.5°	1483.8	1486.8	1485.3	1486.8	1488.4	1486.8	1486.8	1485.3	1488.4	1486.8	1483.8
10°	1537.4	1540.5	1538.9	1542.0	1543.5	1545.1	1545.1	1542.0	1540.5	1540.5	1538.9
12.5°	1601.8	1601.8	1601.8	1606.4	1609.5	1612.5	1611.0	1607.9	1603.3	1604.9	1598.7
15°	1672.3	1675.4	1675.4	1676.9	1684.6	1686.1	1684.6	1680.0	1678.4	1675.4	1672.3
17.5°	1750.5	1752.0	1753.5	1755.1	1764.3	1768.9	1762.7	1755.1	1755.1	1753.5	1753.5
20°	1831.7	1830.2	1833.3	1836.3	1842.4	1847.0	1845.5	1837.8	1831.7	1836.3	1834.8
22.5°	1906.8	1908.4	1909.9	1914.5	1925.2	1926.8	1922.2	1916.0	1908.4	1909.9	1909.9
25°	1977.3	1978.9	1981.9	1988.1	2000.3	2008.0	2001.9	1992.7	1981.9	1981.9	1983.5
27.5°	2049.4	2050.9	2052.4	2063.2	2078.5	2087.7	2083.1	2067.8	2055.5	2052.4	2047.8
30°	2129.1	2129.1	2132.2	2145.9	2165.9	2176.6	2170.5	2152.1	2133.7	2130.6	2130.6
32.5°	2230.3	2224.1	2228.7	2247.1	2268.6	2280.8	2276.2	2254.8	2231.8	2227.2	2227.2
35°	2351.3	2348.3	2351.3	2372.8	2398.9	2417.3	2406.5	2386.6	2362.1	2357.5	2354.4
37.5°	2495.4	2497.0	2506.2	2530.7	2565.9	2588.9	2578.2	2546.0	2516.9	2516.9	2516.9
40°	2677.8	2680.9	2699.3	2736.1	2786.7	2806.6	2794.3	2754.5	2720.8	2708.5	2711.6
42.5°	2926.1	2924.6	2953.7	2999.7	3059.5	3088.6	3068.7	3025.8	2976.7	2956.8	2958.3
45°	3218.9	3240.4	3271.0	3329.3	3404.4	3455.0	3419.7	3372.2	3298.6	3269.5	3268.0
47.5°	3573.0	3596.0	3634.3	3730.9	3821.3	3882.6	3855.0	3776.9	3671.1	3629.7	3614.4
50°	3976.1	4005.3	4054.3	4178.5	4307.2	4376.2	4327.1	4224.4	4111.0	4048.2	4032.8
52.5°	4429.8	4439.0	4512.6	4662.8	4822.2	4906.6	4851.4	4728.7	4583.1	4524.9	4482.0
55°	4932.6	4940.3	5024.6	5194.7	5375.6	5475.2	5404.7	5249.9	5115.0	5013.8	5023.0
57.5°	5398.6	5421.6	5545.7	5745.0	5958.1	6079.2	6002.5	5838.5	5697.5	5582.5	5596.3
60°	5896.8	5921.3	6051.6	6289.2	6577.3	6738.3	6638.6	6462.4	6316.7	6207.9	6194.1
62.5°	6425.6	6439.4	6581.9	6795.0	7162.9	7421.9	7326.9	7132.2	6962.1	6854.8	6844.0
65°	6914.5	6932.9	7054.0	7287.0	7665.6	8044.2	7990.6	7720.8	7490.9	7336.1	7314.6
67.5°	7092.3	7104.6	7274.8	7601.2	8036.6	8410.6	8425.9	8001.3	7667.2	7478.6	7474.0
70°	6883.9	6893.1	7110.7	7498.5	8053.4	8364.6	8309.4	7883.3	7472.5	7241.0	7218.0
72.5°	6416.4	6417.9	6617.2	6946.7	7503.1	7757.6	7523.1	7288.6	6864.0	6690.8	6644.8
75°	5565.7	5567.2	5705.1	5924.3	6321.3	6555.9	6289.2	6074.6	5824.7	5722.0	5668.4
77.5°	3827.4	3850.4	3993.0	4245.9	4681.2	4940.3	4590.8	4201.5	4049.7	3962.3	3910.2
80°	1842.4	1877.7	2041.7	2291.6	2746.8	3160.7	2729.9	2250.2	1954.3	1713.7	1756.6
82.5°	492.0	498.2	639.2	918.2	1279.9	1502.2	1220.1	853.8	538.0	361.7	331.1
85°	130.3	138.0	193.1	265.2	403.1	513.5	392.4	249.8	190.1	141.0	128.8
87.5°	35.3	41.4	67.4	81.2	101.2	81.2	101.2	87.4	84.3	44.5	32.2
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)