

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: P157614

Luminaire Tested: **VST-F09-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157614
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) 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: 21426.6 lumens
Efficiency: N/A
Efficacy: 91.3 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



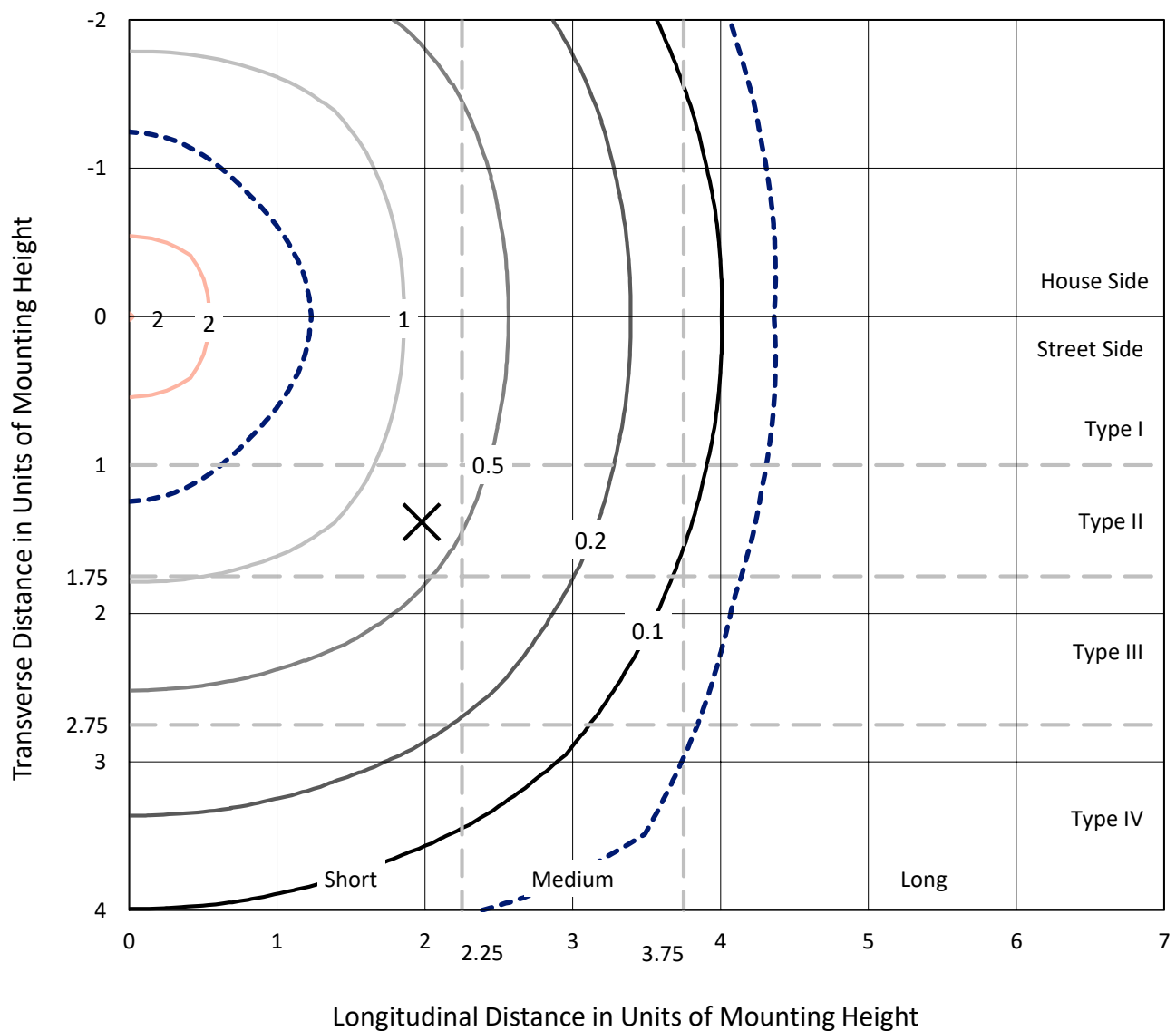
REPORT NUMBER: P157614

CATALOG NUMBER: VST-F09-LED-E-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



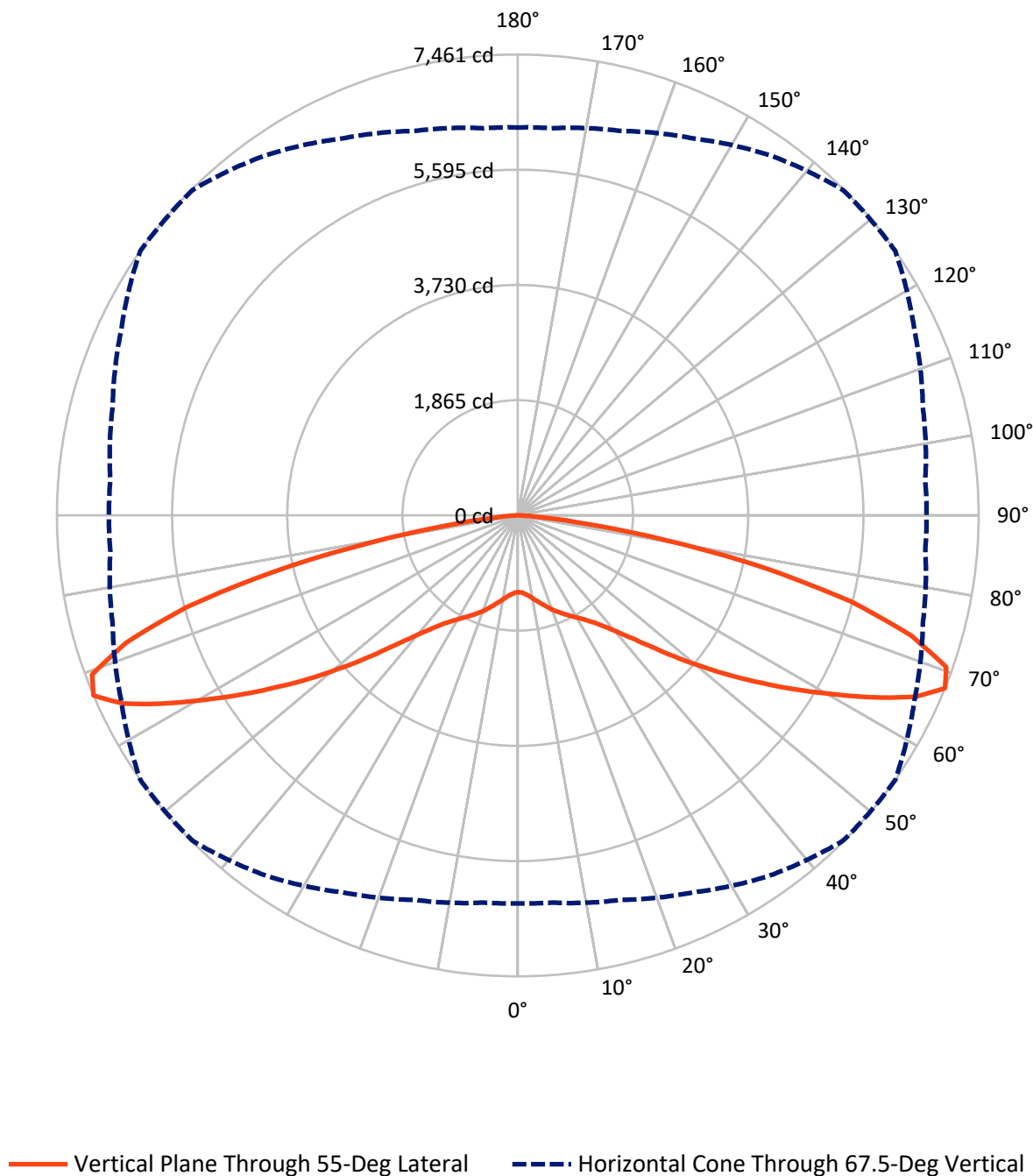
Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type V - Short - Semi-Cutoff

REPORT NUMBER: P157614

CATALOG NUMBER: VST-F09-LED-E-U-5WQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157614

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10713.3	0.0	10713.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10713.3	0.0	10713.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	21426.6	0.0	21426.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	0.6
10°-20°	426.3	2.0
20°-30°	819.7	3.8
30°-40°	1342.8	6.3
40°-50°	2334.5	10.9
50°-60°	4166.8	19.4
60°-70°	6433.3	30.0
70°-80°	5207.8	24.3
80°-90°	570.5	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°	21426.6	100.0
0°-180°	21426.6	100.0

Coefficient of Utilization



REPORT NUMBER: P157614

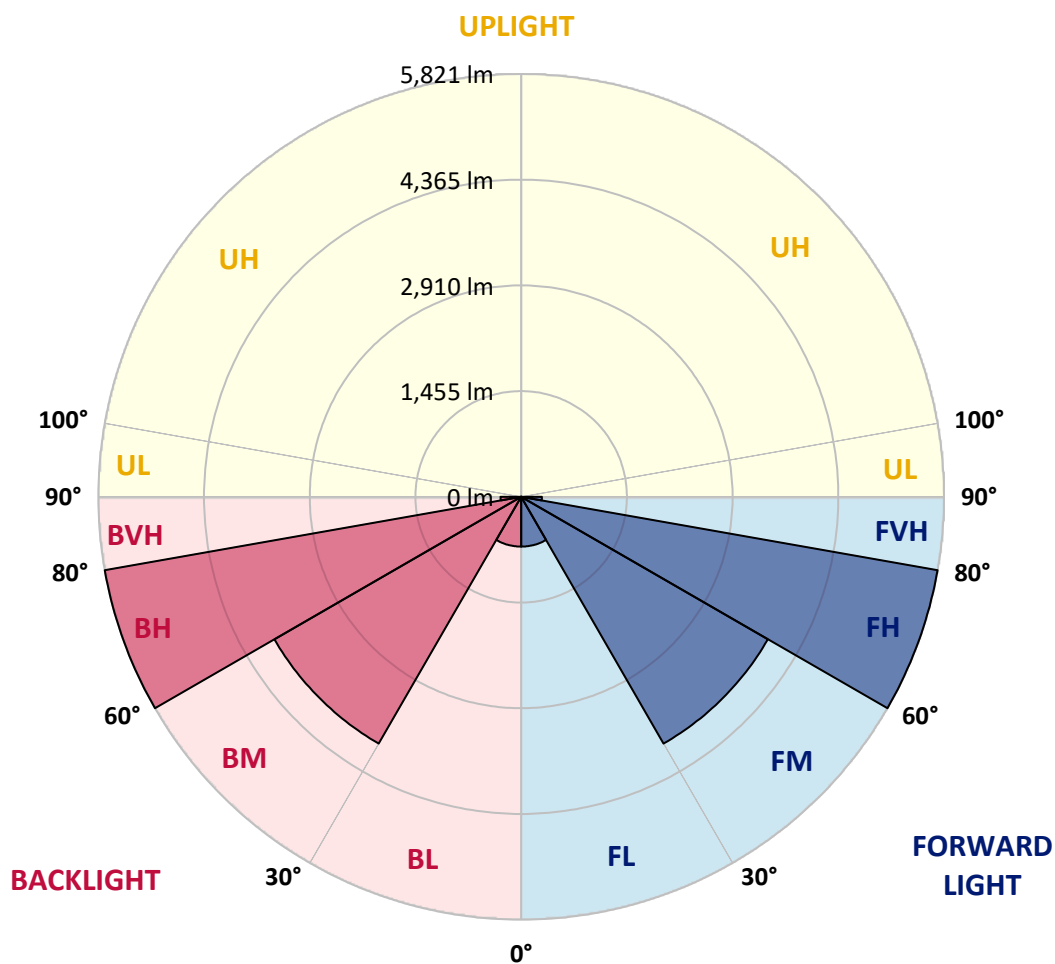
CATALOG NUMBER: VST-F09-LED-E-U-5WQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.4	3.2			
FM	(30°-60°)	3922.1	18.3			
FH	(60°-80°)	5820.6	27.2			G3/7500
FVH	(80°-90°)	285.2	1.3			G3/500
BL	(0°-30°)	685.4	3.2	B2/1000		
BM	(30°-60°)	3922.1	18.3	B3/5000		
BH	(60°-80°)	5820.6	27.2	B5		G3/7500
BVH	(80°-90°)	285.2	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: P157614

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2
2.5°	1251.3	1252.7	1251.3	1251.3	1250.0	1250.0	1250.0	1251.3	1251.3	1254.0	1252.7
5°	1277.1	1278.5	1275.8	1278.5	1278.5	1279.8	1278.5	1277.1	1278.5	1279.8	1275.8
7.5°	1313.8	1316.5	1315.1	1316.5	1317.8	1316.5	1316.5	1315.1	1317.8	1316.5	1313.8
10°	1361.3	1364.0	1362.6	1365.3	1366.7	1368.0	1368.0	1365.3	1364.0	1364.0	1362.6
12.5°	1418.3	1418.3	1418.3	1422.3	1425.0	1427.8	1426.4	1423.7	1419.6	1421.0	1415.5
15°	1480.7	1483.4	1483.4	1484.8	1491.5	1492.9	1491.5	1487.5	1486.1	1483.4	1480.7
17.5°	1549.9	1551.3	1552.6	1554.0	1562.1	1566.2	1560.8	1554.0	1554.0	1552.6	1552.6
20°	1621.8	1620.5	1623.2	1625.9	1631.3	1635.4	1634.1	1627.3	1621.8	1625.9	1624.6
22.5°	1688.3	1689.7	1691.1	1695.1	1704.6	1706.0	1701.9	1696.5	1689.7	1691.1	1691.1
25°	1750.8	1752.1	1754.8	1760.3	1771.1	1777.9	1772.5	1764.3	1754.8	1754.8	1756.2
27.5°	1814.6	1815.9	1817.3	1826.8	1840.3	1848.5	1844.4	1830.8	1820.0	1817.3	1813.2
30°	1885.1	1885.1	1887.8	1900.1	1917.7	1927.2	1921.8	1905.5	1889.2	1886.5	1886.5
32.5°	1974.7	1969.3	1973.4	1989.6	2008.6	2019.5	2015.4	1996.4	1976.1	1972.0	1972.0
35°	2081.9	2079.2	2081.9	2100.9	2124.0	2140.3	2130.8	2113.1	2091.4	2087.4	2084.6
37.5°	2209.5	2210.9	2219.0	2240.7	2271.9	2292.3	2282.8	2254.3	2228.5	2228.5	2228.5
40°	2371.0	2373.7	2390.0	2422.6	2467.4	2485.0	2474.2	2438.9	2409.0	2398.2	2400.9
42.5°	2590.9	2589.5	2615.3	2656.0	2708.9	2734.7	2717.1	2679.1	2635.7	2618.0	2619.4
45°	2850.1	2869.1	2896.2	2947.8	3014.3	3059.1	3027.9	2985.8	2920.7	2894.9	2893.5
47.5°	3163.6	3184.0	3217.9	3303.4	3383.5	3437.8	3413.3	3344.1	3250.5	3213.8	3200.2
50°	3520.5	3546.3	3589.8	3699.7	3813.7	3874.8	3831.3	3740.4	3640.0	3584.3	3570.8
52.5°	3922.3	3930.4	3995.6	4128.6	4269.7	4344.4	4295.5	4186.9	4058.0	4006.4	3968.4
55°	4367.4	4374.2	4448.9	4599.5	4759.7	4847.9	4785.4	4648.4	4528.9	4439.4	4447.5
57.5°	4780.0	4800.4	4910.3	5086.7	5275.4	5382.6	5314.7	5169.5	5044.7	4942.9	4955.1
60°	5221.1	5242.8	5358.2	5568.5	5823.7	5966.2	5878.0	5721.9	5593.0	5496.6	5484.4
62.5°	5689.3	5701.5	5827.8	6016.4	6342.1	6571.5	6487.4	6315.0	6164.3	6069.3	6059.8
65°	6122.3	6138.6	6245.8	6452.1	6787.3	7122.5	7075.0	6836.2	6632.6	6495.5	6476.5
67.5°	6279.7	6290.6	6441.2	6730.3	7115.7	7446.9	7460.5	7084.5	6788.7	6621.7	6617.6
70°	6095.1	6103.3	6296.0	6639.4	7130.7	7406.2	7357.3	6980.0	6616.3	6411.4	6391.0
72.5°	5681.2	5682.5	5859.0	6150.8	6643.4	6868.7	6661.1	6453.4	6077.5	5924.1	5883.4
75°	4928.0	4929.3	5051.5	5245.5	5597.0	5804.7	5568.5	5378.5	5157.3	5066.4	5018.9
77.5°	3388.9	3409.3	3535.5	3759.4	4144.9	4374.2	4064.8	3720.1	3585.7	3508.3	3462.2
80°	1631.3	1662.6	1807.8	2029.0	2432.1	2798.5	2417.2	1992.4	1730.4	1517.3	1555.3
82.5°	435.7	441.1	565.9	813.0	1133.3	1330.0	1080.3	756.0	476.4	320.3	293.2
85°	115.4	122.1	171.0	234.8	356.9	454.7	347.4	221.2	168.3	124.9	114.0
87.5°	31.2	36.6	59.7	71.9	89.6	71.9	89.6	77.4	74.6	39.4	28.5
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)