

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: P157592

Luminaire Tested: **VST-E07-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157592
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-E07-LED-E-U-5WQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (147) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22679.4 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 172.5
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

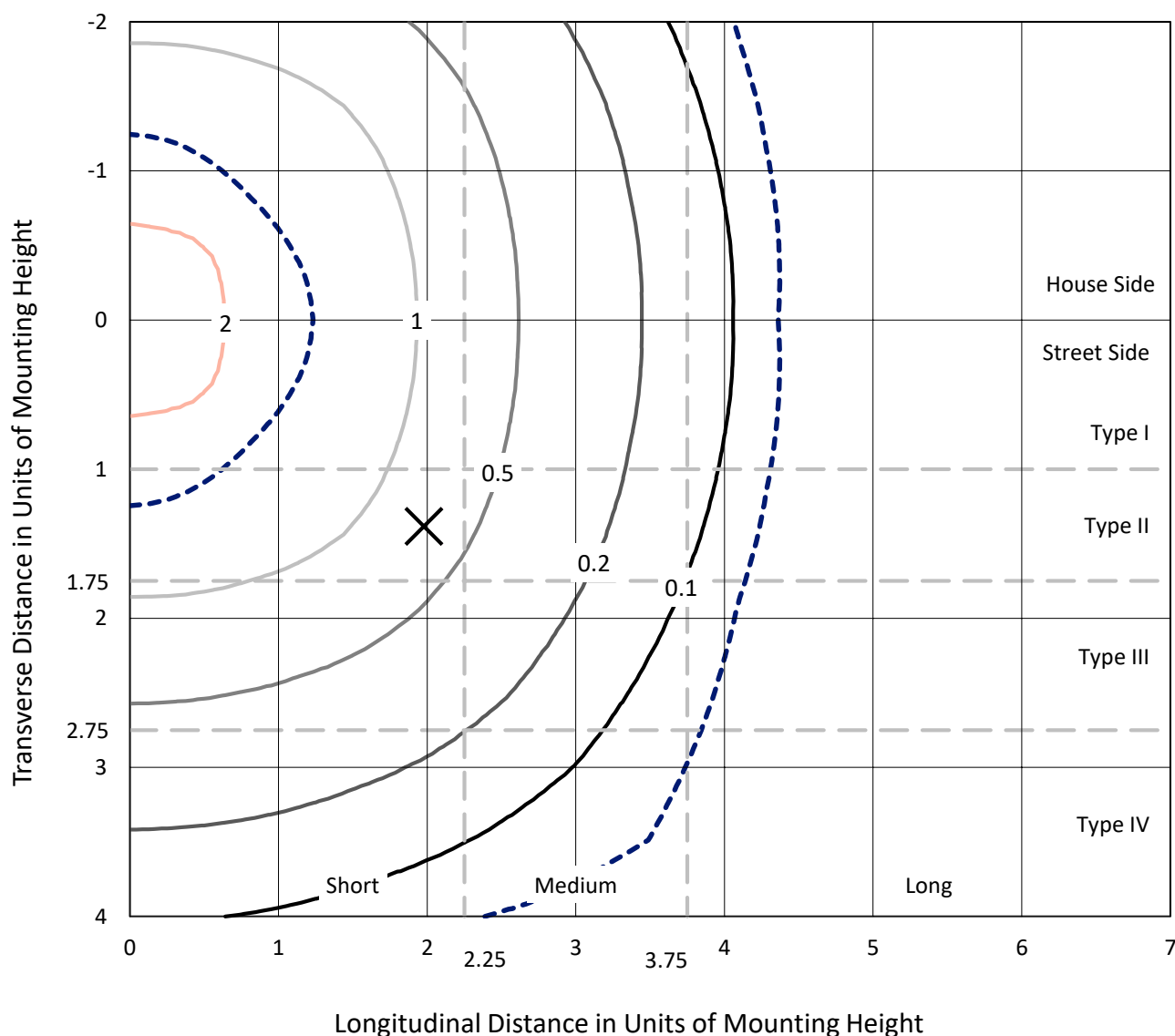


REPORT NUMBER: P157592

CATALOG NUMBER: VST-E07-LED-E-U-5WQ-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

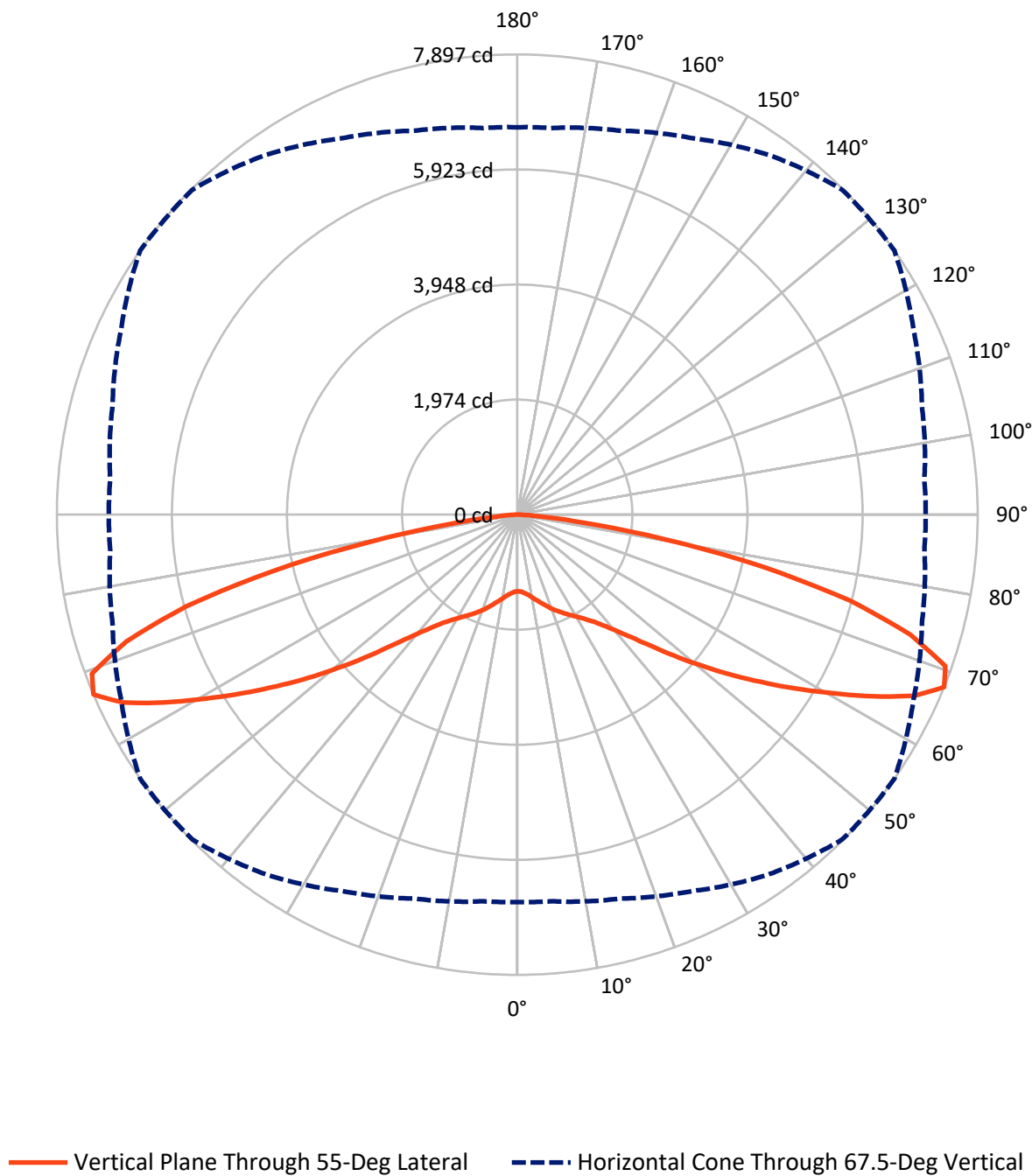


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157592

CATALOG NUMBER: VST-E07-LED-E-U-5WQ-7060

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11339.7	0.0	11339.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11339.7	0.0	11339.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22679.4	0.0	22679.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	0.6
10°-20°	451.2	2.0
20°-30°	867.7	3.8
30°-40°	1421.4	6.3
40°-50°	2471.0	10.9
50°-60°	4410.5	19.4
60°-70°	6809.5	30.0
70°-80°	5512.3	24.3
80°-90°	603.8	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°	22679.4	100.0
0°-180°	22679.4	100.0

Coefficient of Utilization



REPORT NUMBER: P157592

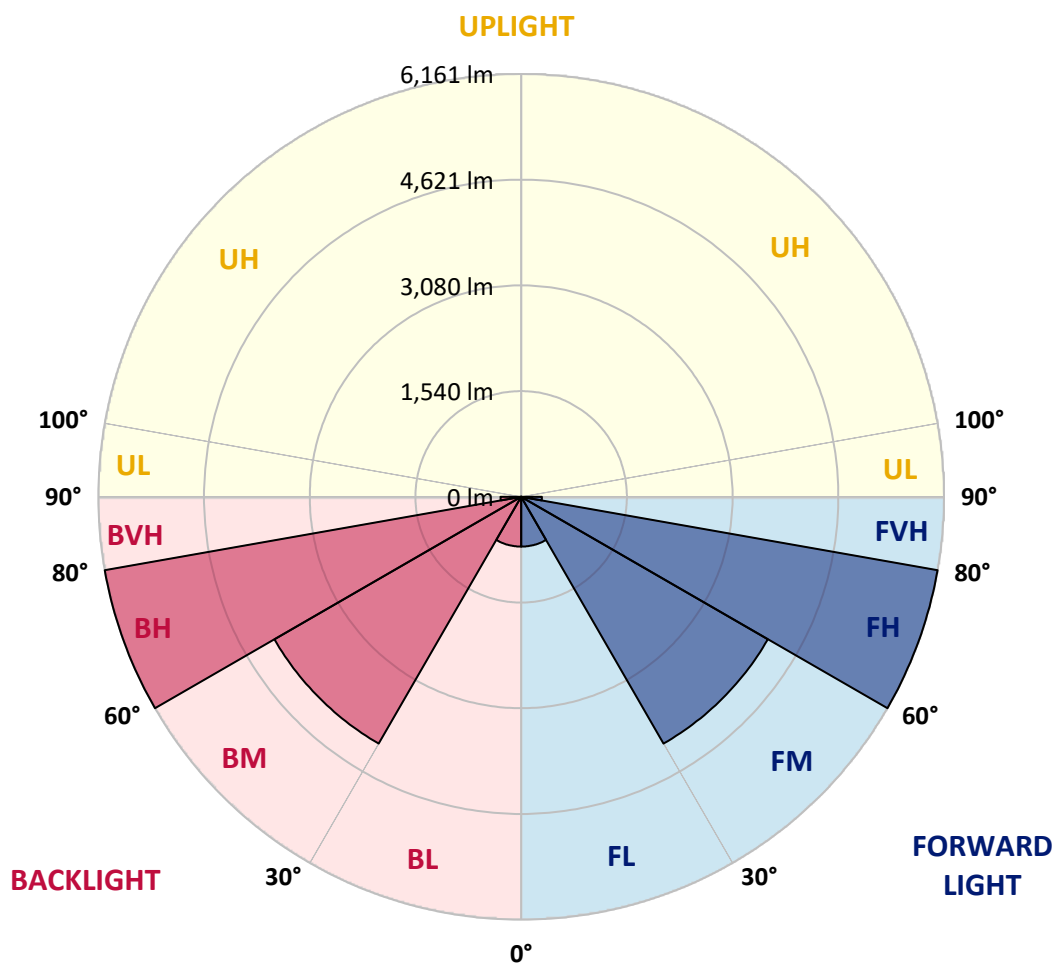
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	725.5	3.2			
FM	(30°-60°)	4151.4	18.3			
FH	(60°-80°)	6160.9	27.2			G3/7500
FVH	(80°-90°)	301.9	1.3			G3/500
BL	(0°-30°)	725.5	3.2	B2/1000		
BM	(30°-60°)	4151.4	18.3	B3/5000		
BH	(60°-80°)	6160.9	27.2	B5		G3/7500
BVH	(80°-90°)	301.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9	1315.9
2.5°	1324.5	1325.9	1324.5	1324.5	1323.1	1323.1	1323.1	1324.5	1324.5	1327.4	1325.9
5°	1351.8	1353.2	1350.4	1353.2	1353.2	1354.7	1353.2	1351.8	1353.2	1354.7	1350.4
7.5°	1390.6	1393.5	1392.0	1393.5	1394.9	1393.5	1393.5	1392.0	1394.9	1393.5	1390.6
10°	1440.9	1443.7	1442.3	1445.2	1446.6	1448.0	1448.0	1445.2	1443.7	1443.7	1442.3
12.5°	1501.2	1501.2	1501.2	1505.5	1508.4	1511.2	1509.8	1506.9	1502.6	1504.1	1498.3
15°	1567.3	1570.1	1570.1	1571.6	1578.8	1580.2	1578.8	1574.5	1573.0	1570.1	1567.3
17.5°	1640.5	1642.0	1643.4	1644.8	1653.5	1657.8	1652.0	1644.8	1644.8	1643.4	1643.4
20°	1716.7	1715.2	1718.1	1721.0	1726.7	1731.0	1729.6	1722.4	1716.7	1721.0	1719.5
22.5°	1787.1	1788.5	1789.9	1794.2	1804.3	1805.7	1801.4	1795.7	1788.5	1789.9	1789.9
25°	1853.1	1854.6	1857.5	1863.2	1874.7	1881.9	1876.1	1867.5	1857.5	1857.5	1858.9
27.5°	1920.7	1922.1	1923.5	1933.6	1948.0	1956.6	1952.3	1937.9	1926.4	1923.5	1919.2
30°	1995.4	1995.4	1998.2	2011.2	2029.8	2039.9	2034.2	2016.9	1999.7	1996.8	1996.8
32.5°	2090.2	2084.4	2088.7	2106.0	2126.1	2137.6	2133.3	2113.2	2091.6	2087.3	2087.3
35°	2203.7	2200.8	2203.7	2223.8	2248.2	2265.4	2255.4	2236.7	2213.7	2209.4	2206.5
37.5°	2338.7	2340.1	2348.8	2371.7	2404.8	2426.3	2416.3	2386.1	2358.8	2358.8	2358.8
40°	2509.6	2512.5	2529.8	2564.2	2611.6	2630.3	2618.8	2581.5	2549.9	2538.4	2541.3
42.5°	2742.4	2740.9	2768.2	2811.3	2867.3	2894.6	2876.0	2835.7	2789.8	2771.1	2772.5
45°	3016.8	3036.9	3065.6	3120.2	3190.6	3238.0	3204.9	3160.4	3091.5	3064.2	3062.7
47.5°	3348.6	3370.1	3406.1	3496.6	3581.3	3638.8	3612.9	3539.7	3440.5	3401.7	3387.4
50°	3726.4	3753.7	3799.7	3916.0	4036.7	4101.3	4055.4	3959.1	3852.8	3793.9	3779.6
52.5°	4151.6	4160.2	4229.2	4370.0	4519.4	4598.4	4546.7	4431.7	4295.3	4240.7	4200.5
55°	4622.8	4630.0	4709.0	4868.5	5038.0	5131.3	5065.3	4920.2	4793.8	4698.9	4707.6
57.5°	5059.5	5081.1	5197.4	5384.2	5583.9	5697.3	5625.5	5471.8	5339.6	5231.9	5244.8
60°	5526.4	5549.4	5671.5	5894.2	6164.2	6315.1	6221.7	6056.5	5920.0	5818.0	5805.1
62.5°	6022.0	6034.9	6168.5	6368.2	6713.0	6955.8	6866.7	6684.3	6524.8	6424.2	6414.2
65°	6480.3	6497.5	6611.0	6829.3	7184.2	7539.0	7488.7	7235.9	7020.4	6875.3	6855.2
67.5°	6646.9	6658.4	6817.9	7123.8	7531.8	7882.3	7896.7	7498.8	7185.6	7008.9	7004.6
70°	6451.5	6460.2	6664.1	7027.6	7547.6	7839.2	7787.5	7388.2	7003.2	6786.3	6764.7
72.5°	6013.4	6014.8	6201.6	6510.4	7031.9	7270.4	7050.6	6830.8	6432.9	6270.5	6227.4
75°	5216.1	5217.5	5346.8	5552.3	5924.3	6144.1	5894.2	5693.0	5458.9	5362.6	5312.4
77.5°	3587.1	3608.6	3742.2	3979.2	4387.2	4630.0	4302.5	3937.6	3795.4	3713.5	3664.6
80°	1726.7	1759.8	1913.5	2147.6	2574.3	2962.2	2558.5	2108.9	1831.6	1606.1	1646.3
82.5°	461.1	466.9	599.0	860.5	1199.5	1407.8	1143.5	800.2	504.2	339.0	310.3
85°	122.1	129.3	181.0	248.5	377.8	481.2	367.8	234.2	178.1	132.2	120.7
87.5°	33.0	38.8	63.2	76.1	94.8	76.1	94.8	81.9	79.0	41.7	30.2
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)