

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: P157538

Luminaire Tested: **VST-E02-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157538
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-E02-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5329.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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



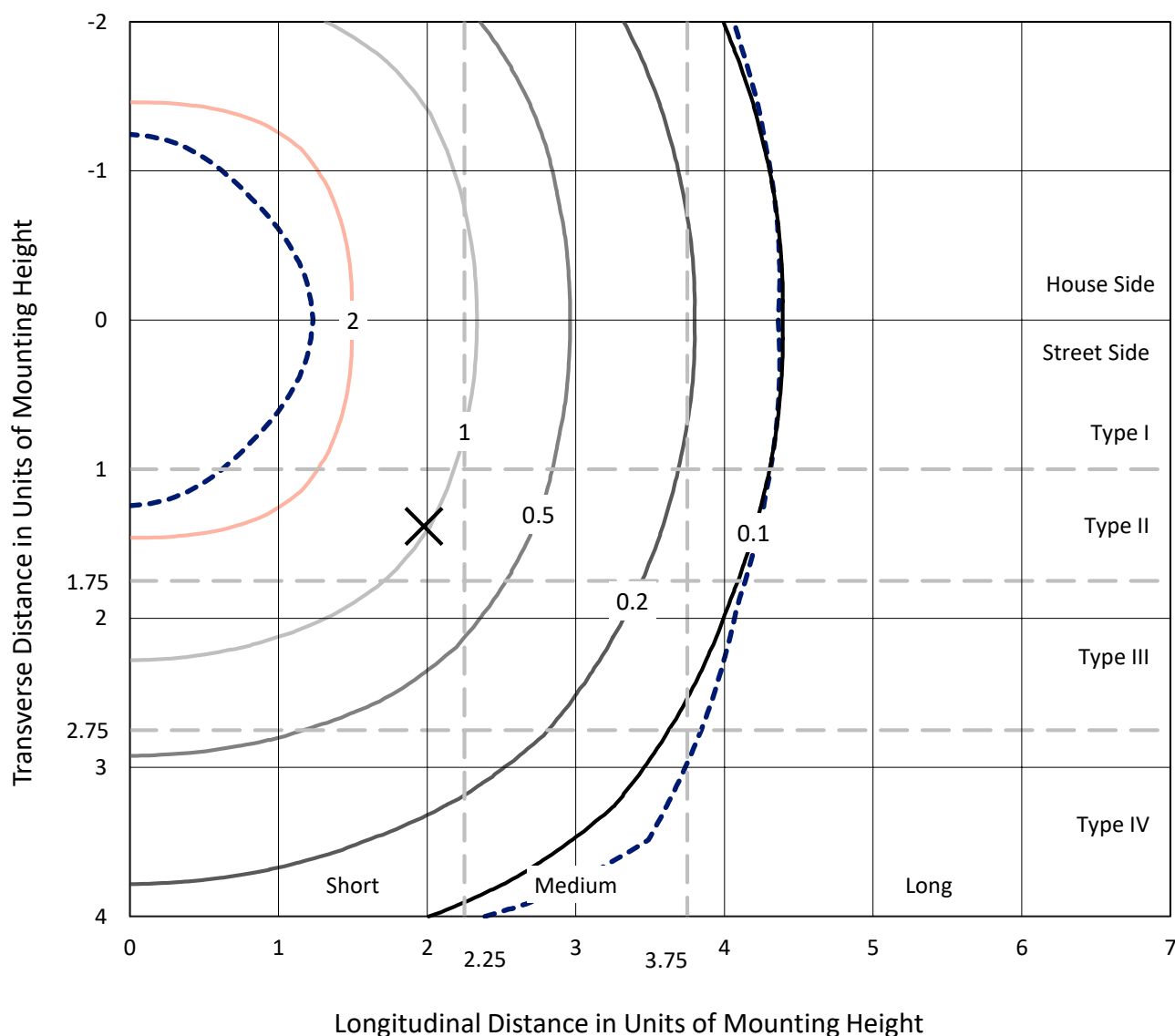
REPORT NUMBER: P157538

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

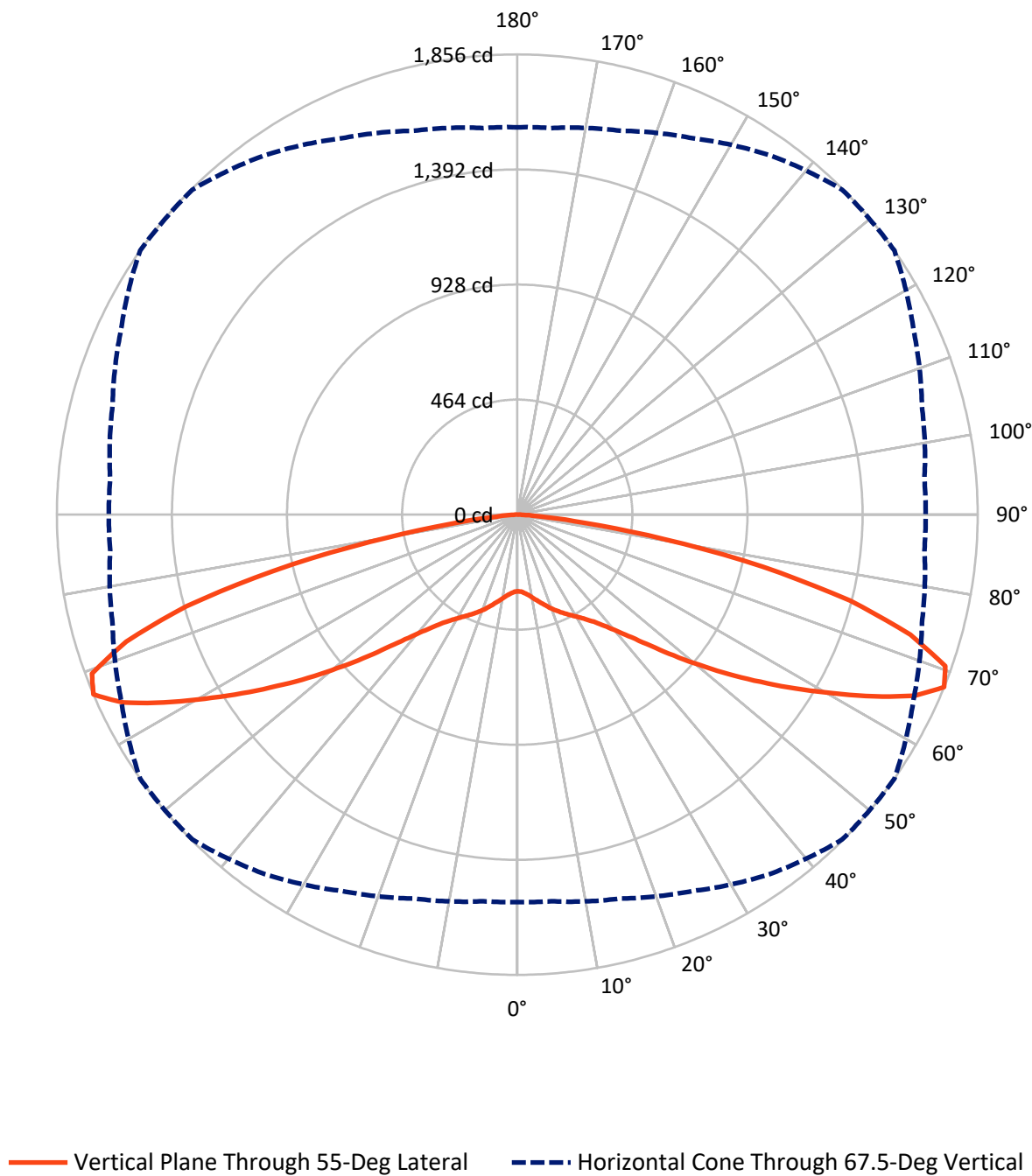


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157538

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P157538

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2664.9	0.0	2664.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2664.9	0.0	2664.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5329.8	0.0	5329.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	0.6
10°-20°	106.0	2.0
20°-30°	203.9	3.8
30°-40°	334.0	6.3
40°-50°	580.7	10.9
50°-60°	1036.5	19.4
60°-70°	1600.3	30.0
70°-80°	1295.4	24.3
80°-90°	141.9	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°	5329.8	100.0
0°-180°	5329.8	100.0

Coefficient of Utilization



REPORT NUMBER: P157538

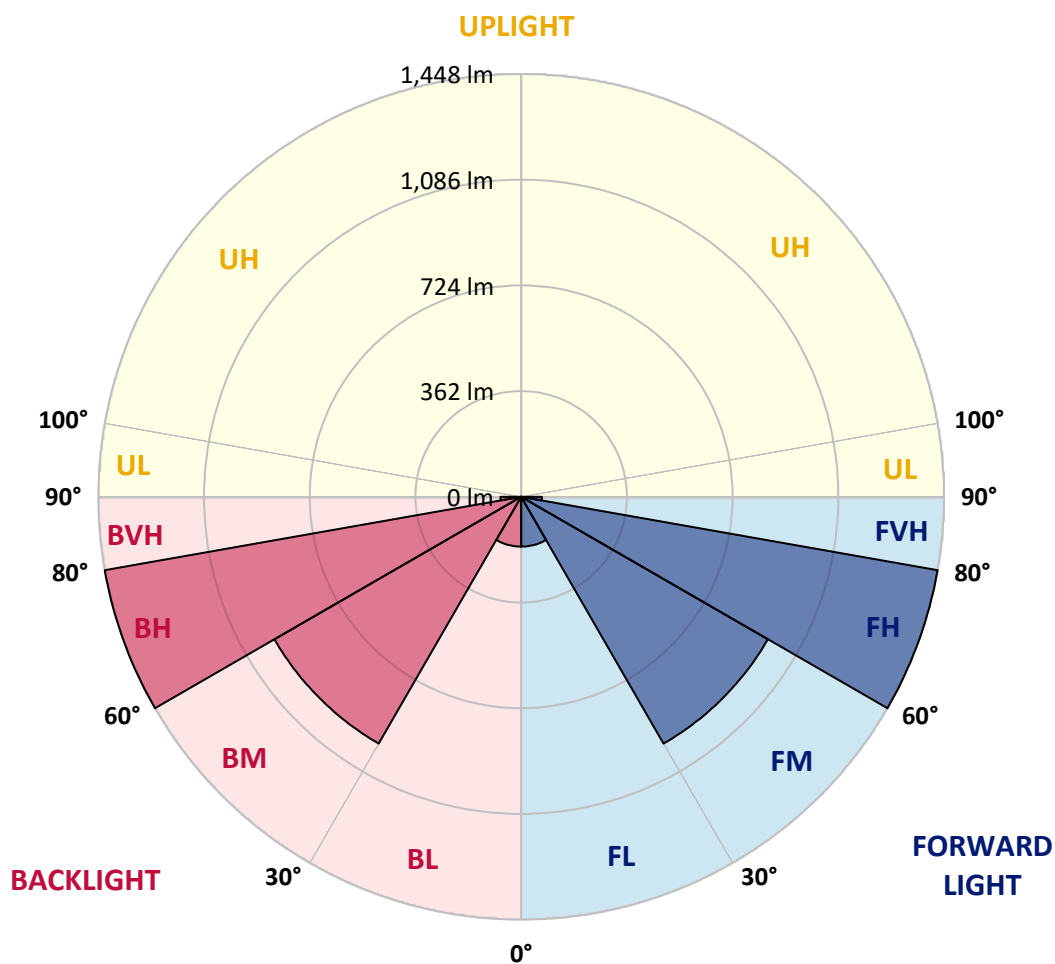
CATALOG NUMBER: VST-E02-LED-E-U-5WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.5	3.2			
FM	(30°-60°)	975.6	18.3			
FH	(60°-80°)	1447.8	27.2			G1/1800
FVH	(80°-90°)	71.0	1.3			G1/100
BL	(0°-30°)	170.5	3.2	B1/500		
BM	(30°-60°)	975.6	18.3	B1/1000		
BH	(60°-80°)	1447.8	27.2	B3/2500		G1/1800
BVH	(80°-90°)	71.0	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P157538

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2
2.5°	311.3	311.6	311.3	311.3	310.9	310.9	310.9	311.3	311.3	311.9	311.6
5°	317.7	318.0	317.3	318.0	318.0	318.4	318.0	317.7	318.0	318.4	317.3
7.5°	326.8	327.5	327.1	327.5	327.8	327.5	327.5	327.1	327.8	327.5	326.8
10°	338.6	339.3	338.9	339.6	340.0	340.3	340.3	339.6	339.3	339.3	338.9
12.5°	352.8	352.8	352.8	353.8	354.5	355.1	354.8	354.1	353.1	353.5	352.1
15°	368.3	369.0	369.0	369.4	371.0	371.3	371.0	370.0	369.7	369.0	368.3
17.5°	385.6	385.9	386.2	386.5	388.6	389.6	388.3	386.5	386.5	386.2	386.2
20°	403.4	403.1	403.7	404.5	405.8	406.8	406.4	404.8	403.4	404.5	404.1
22.5°	419.9	420.3	420.7	421.7	424.0	424.4	423.4	422.0	420.3	420.7	420.7
25°	435.5	435.8	436.5	437.9	440.6	442.3	440.9	438.9	436.5	436.5	436.9
27.5°	451.4	451.7	452.0	454.4	457.8	459.8	458.8	455.4	452.7	452.0	451.0
30°	468.9	468.9	469.6	472.6	477.0	479.4	478.0	474.0	469.9	469.3	469.3
32.5°	491.2	489.8	490.9	494.9	499.6	502.3	501.4	496.6	491.5	490.5	490.5
35°	517.9	517.2	517.9	522.6	528.4	532.4	530.0	525.7	520.3	519.2	518.5
37.5°	549.6	550.0	552.0	557.4	565.1	570.2	567.8	560.8	554.3	554.3	554.3
40°	589.8	590.5	594.5	602.6	613.7	618.1	615.4	606.7	599.2	596.5	597.2
42.5°	644.5	644.2	650.5	660.7	673.9	680.3	675.8	666.4	655.6	651.2	651.5
45°	709.0	713.7	720.4	733.3	749.8	760.9	753.2	742.7	726.5	720.1	719.8
47.5°	787.0	792.0	800.5	821.7	841.6	855.1	849.1	831.8	808.6	799.4	796.1
50°	875.7	882.1	892.9	920.3	948.7	963.8	953.0	930.4	905.5	891.6	888.2
52.5°	975.7	977.7	993.9	1027.0	1062.1	1080.7	1068.5	1041.5	1009.4	996.6	987.1
55°	1086.4	1088.1	1106.6	1144.1	1184.0	1205.9	1190.3	1156.3	1126.6	1104.3	1106.3
57.5°	1189.0	1194.1	1221.4	1265.3	1312.3	1338.9	1322.0	1285.9	1254.8	1229.5	1232.6
60°	1298.8	1304.2	1332.8	1385.2	1448.6	1484.1	1462.1	1423.3	1391.2	1367.3	1364.2
62.5°	1415.2	1418.2	1449.7	1496.6	1577.6	1634.6	1613.7	1570.9	1533.4	1509.7	1507.4
65°	1522.9	1526.9	1553.6	1604.9	1688.3	1771.7	1759.9	1700.5	1649.8	1615.7	1611.0
67.5°	1562.0	1564.7	1602.2	1674.1	1770.0	1852.4	1855.7	1762.3	1688.6	1647.1	1646.1
70°	1516.1	1518.2	1566.1	1651.5	1773.7	1842.2	1830.1	1736.3	1645.8	1594.8	1589.8
72.5°	1413.2	1413.5	1457.4	1530.0	1652.5	1708.6	1656.9	1605.3	1511.8	1473.6	1463.5
75°	1225.8	1226.2	1256.5	1304.8	1392.2	1443.9	1385.2	1337.9	1282.9	1260.2	1248.4
77.5°	843.0	848.0	879.4	935.2	1031.0	1088.1	1011.1	925.4	891.9	872.7	861.2
80°	405.8	413.6	449.7	504.7	605.0	696.1	601.3	495.6	430.4	377.5	386.9
82.5°	108.4	109.7	140.8	202.2	281.9	330.8	268.7	188.0	118.5	79.7	72.9
85°	28.7	30.4	42.5	58.4	88.8	113.1	86.4	55.0	41.9	31.1	28.4
87.5°	7.7	9.1	14.9	17.9	22.3	17.9	22.3	19.3	18.5	9.8	7.1
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)