

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: P157541

Luminaire Tested: **VST-E02-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157541
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6479.9 lumens
Efficiency: N/A
Efficacy: 124.4 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

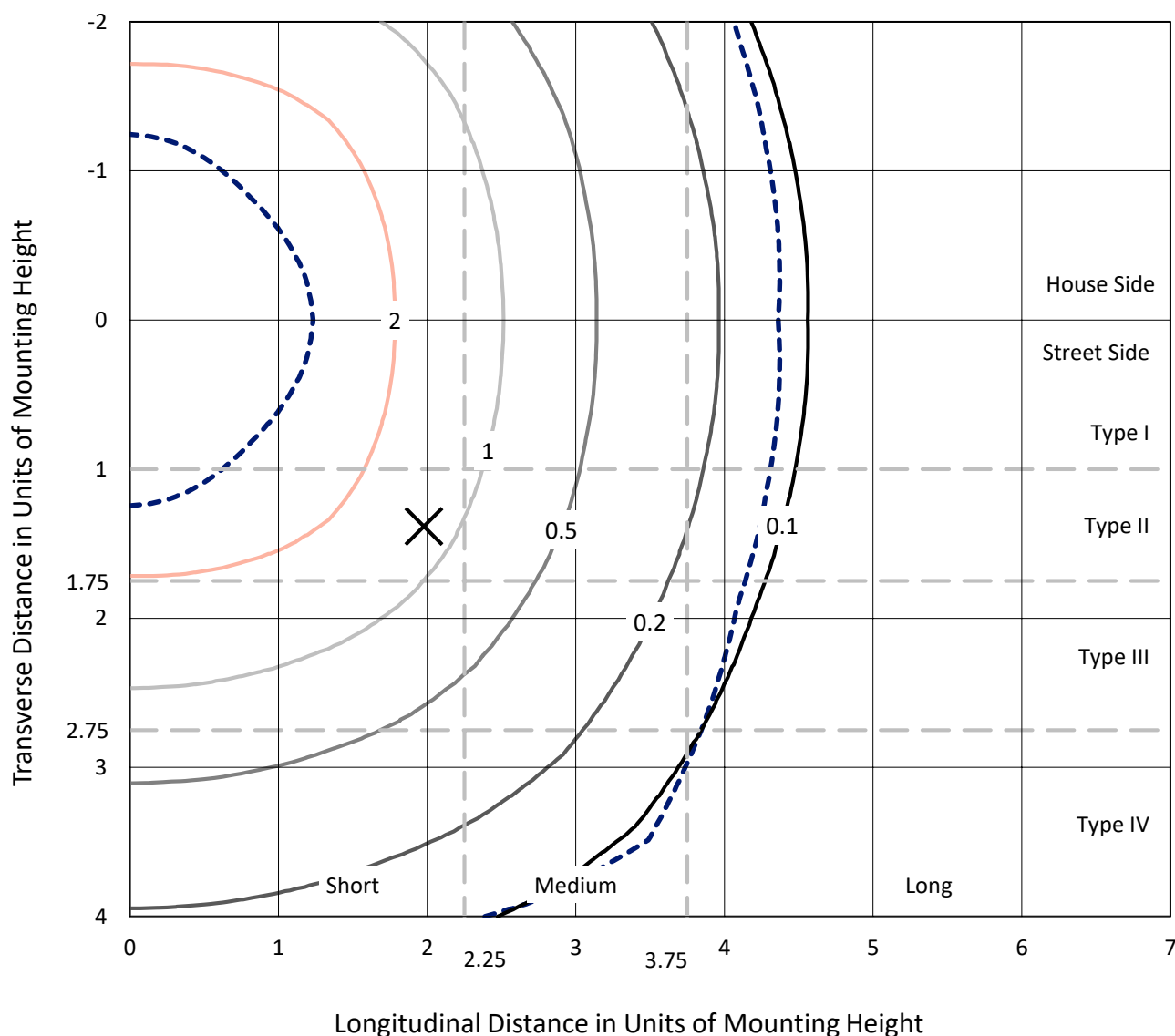


REPORT NUMBER: P157541

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

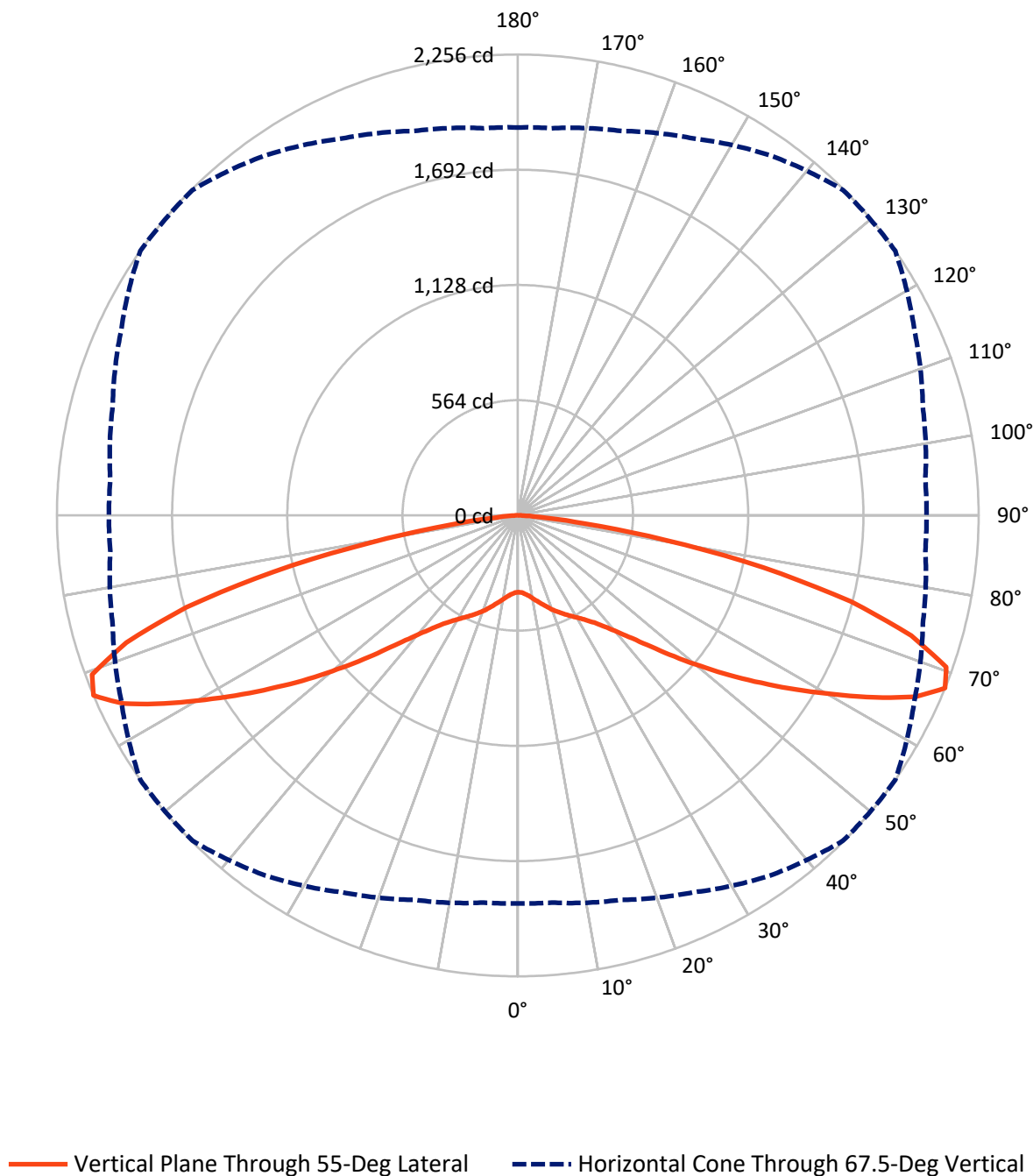


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157541

CATALOG NUMBER: VST-E02-LED-E-U-5WQ-7050

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.9	0.0	3239.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3239.9	0.0	3239.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6479.9	0.0	6479.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.6
10°-20°	128.9	2.0
20°-30°	247.9	3.8
30°-40°	406.1	6.3
40°-50°	706.0	10.9
50°-60°	1260.1	19.4
60°-70°	1945.6	30.0
70°-80°	1575.0	24.3
80°-90°	172.5	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°	6479.9	100.0
0°-180°	6479.9	100.0

Coefficient of Utilization



REPORT NUMBER: P157541

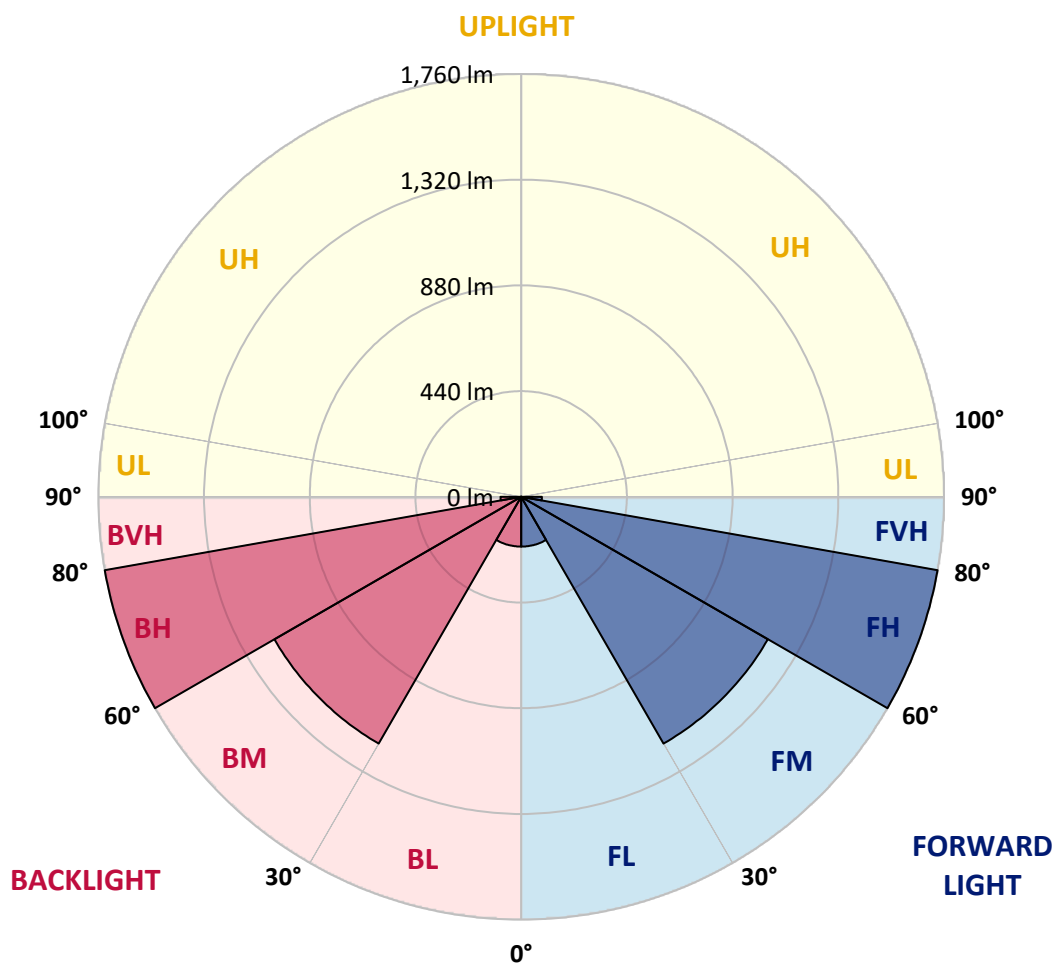
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.3	3.2			
FM	(30°-60°)	1186.1	18.3			
FH	(60°-80°)	1760.3	27.2			G1/1800
FVH	(80°-90°)	86.3	1.3			G1/100
BL	(0°-30°)	207.3	3.2	B1/500		
BM	(30°-60°)	1186.1	18.3	B2/2500		
BH	(60°-80°)	1760.3	27.2	B3/2500		G1/1800
BVH	(80°-90°)	86.3	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: P157541

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	376.0	376.0	376.0	376.0	376.0	376.0	376.0	376.0	376.0	376.0	376.0
2.5°	378.4	378.8	378.4	378.4	378.0	378.0	378.0	378.4	378.4	379.3	378.8
5°	386.2	386.6	385.8	386.6	386.6	387.1	386.6	386.2	386.6	387.1	385.8
7.5°	397.3	398.1	397.7	398.1	398.5	398.1	398.1	397.7	398.5	398.1	397.3
10°	411.7	412.5	412.1	412.9	413.3	413.7	413.7	412.9	412.5	412.5	412.1
12.5°	428.9	428.9	428.9	430.1	431.0	431.8	431.4	430.6	429.3	429.7	428.1
15°	447.8	448.6	448.6	449.0	451.1	451.5	451.1	449.8	449.5	448.6	447.8
17.5°	468.7	469.1	469.6	470.0	472.4	473.6	472.0	470.0	470.0	469.6	469.6
20°	490.5	490.1	490.9	491.7	493.4	494.6	494.2	492.1	490.5	491.7	491.3
22.5°	510.6	511.0	511.4	512.6	515.5	515.9	514.7	513.1	511.0	511.4	511.4
25°	529.5	529.9	530.7	532.3	535.6	537.7	536.0	533.6	530.7	530.7	531.1
27.5°	548.8	549.2	549.6	552.5	556.6	559.0	557.8	553.7	550.4	549.6	548.3
30°	570.1	570.1	570.9	574.6	580.0	582.8	581.2	576.2	571.3	570.5	570.5
32.5°	597.2	595.6	596.8	601.7	607.4	610.7	609.5	603.8	597.6	596.4	596.4
35°	629.6	628.8	629.6	635.3	642.4	647.3	644.4	639.1	632.5	631.3	630.4
37.5°	668.2	668.6	671.1	677.6	687.1	693.2	690.4	681.7	673.9	673.9	673.9
40°	717.1	717.8	722.8	732.7	746.2	751.5	748.3	737.6	728.5	725.3	726.1
42.5°	783.5	783.1	790.9	803.2	819.2	827.0	821.7	810.2	797.1	791.8	792.2
45°	861.9	867.7	875.9	891.5	911.6	925.1	915.7	903.0	883.3	875.5	875.0
47.5°	956.8	962.9	973.1	999.0	1023.2	1039.7	1032.2	1011.3	983.0	971.9	967.8
50°	1064.7	1072.5	1085.6	1118.9	1153.3	1171.8	1158.7	1131.2	1100.8	1084.0	1079.9
52.5°	1186.2	1188.7	1208.3	1248.5	1291.3	1313.8	1299.1	1266.2	1227.2	1211.6	1200.1
55°	1320.8	1322.9	1345.4	1391.0	1439.4	1466.1	1447.2	1405.7	1369.6	1342.6	1345.0
57.5°	1445.6	1451.8	1485.0	1538.3	1595.4	1627.8	1607.3	1563.4	1525.6	1494.8	1498.5
60°	1579.0	1585.6	1620.4	1684.0	1761.2	1804.3	1777.6	1730.4	1691.5	1662.3	1658.6
62.5°	1720.6	1724.3	1762.4	1819.5	1918.0	1987.4	1961.9	1909.8	1864.2	1835.5	1832.6
65°	1851.5	1856.4	1888.9	1951.3	2052.6	2154.0	2139.7	2067.4	2005.9	1964.4	1958.6
67.5°	1899.1	1902.4	1948.0	2035.4	2152.0	2252.1	2256.2	2142.5	2053.0	2002.6	2001.3
70°	1843.3	1845.8	1904.0	2007.9	2156.5	2239.8	2225.0	2110.9	2000.9	1938.9	1932.8
72.5°	1718.1	1718.5	1771.9	1860.1	2009.1	2077.3	2014.4	1951.7	1838.0	1791.6	1779.2
75°	1490.3	1490.7	1527.7	1586.3	1692.7	1755.5	1684.0	1626.6	1559.7	1532.2	1517.8
77.5°	1024.9	1031.0	1069.2	1136.9	1253.5	1322.9	1229.3	1125.0	1084.4	1061.0	1047.1
80°	493.4	502.8	546.7	613.6	735.5	846.4	731.0	602.5	523.3	458.9	470.3
82.5°	131.8	133.4	171.2	245.9	342.7	402.2	326.7	228.6	144.1	96.8	88.7
85°	34.9	37.0	51.7	71.0	107.9	137.5	105.1	66.9	50.9	37.7	34.5
87.5°	9.4	11.1	18.1	21.8	27.1	21.8	27.1	23.4	22.6	11.9	8.6
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)