

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: P157608

Luminaire Tested: **VST-E09-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157608
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-E09-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (189) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

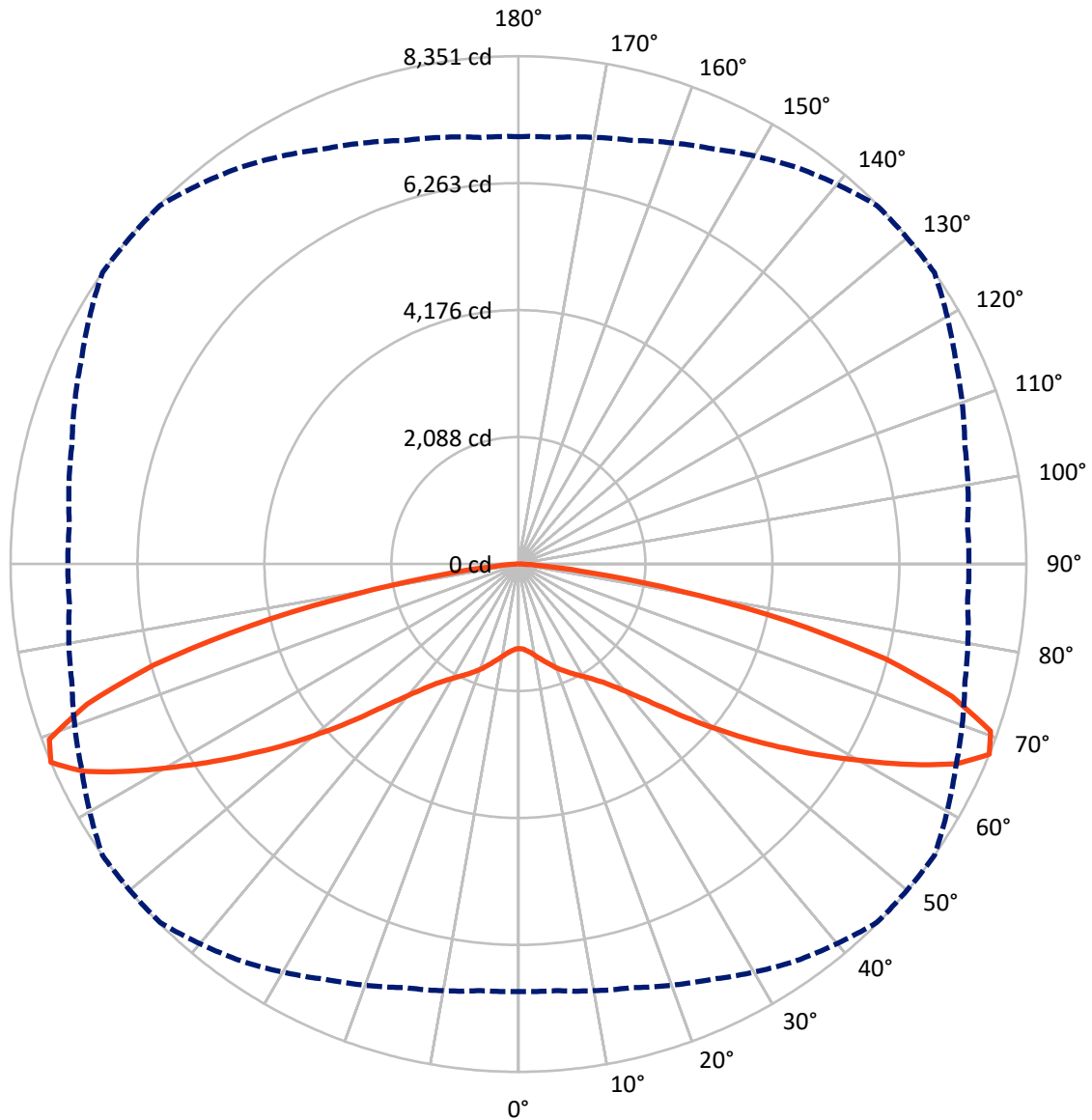
Lumens per Lamp: N/A
Luminaire Lumens: 23984.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 225.7
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



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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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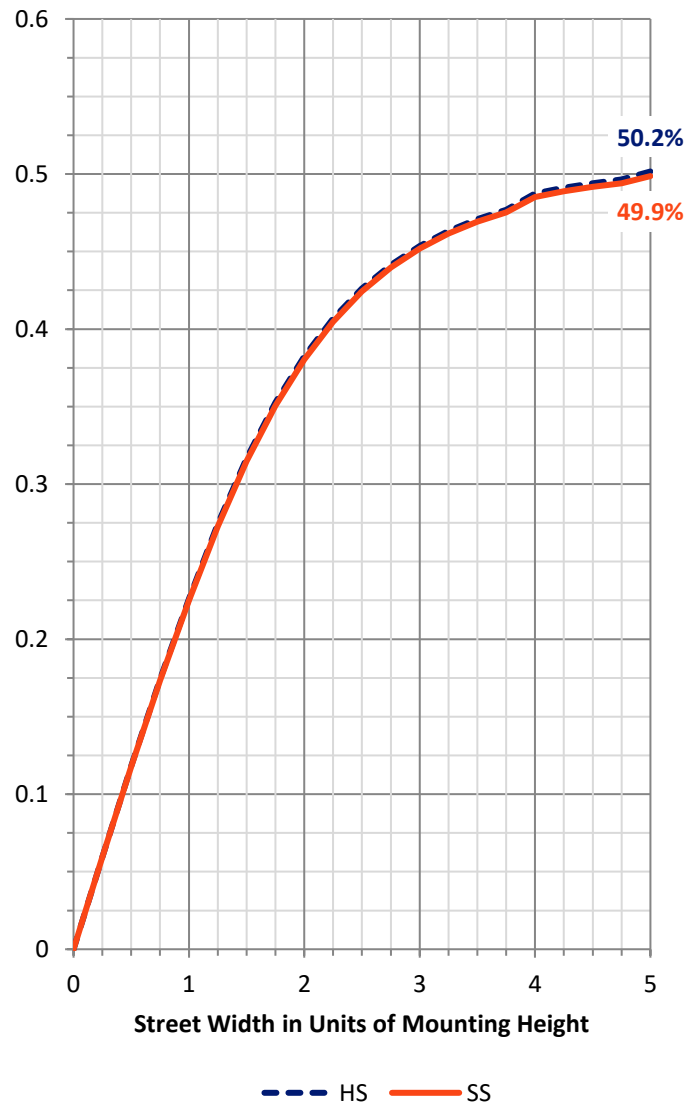
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11992.0	0.0	11992.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11992.0	0.0	11992.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23984.1	0.0	23984.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	0.6
10°-20°	477.2	2.0
20°-30°	917.6	3.8
30°-40°	1503.1	6.3
40°-50°	2613.1	10.9
50°-60°	4664.2	19.4
60°-70°	7201.2	30.0
70°-80°	5829.4	24.3
80°-90°	638.6	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°	23984.1	100.0
0°-180°	23984.1	100.0



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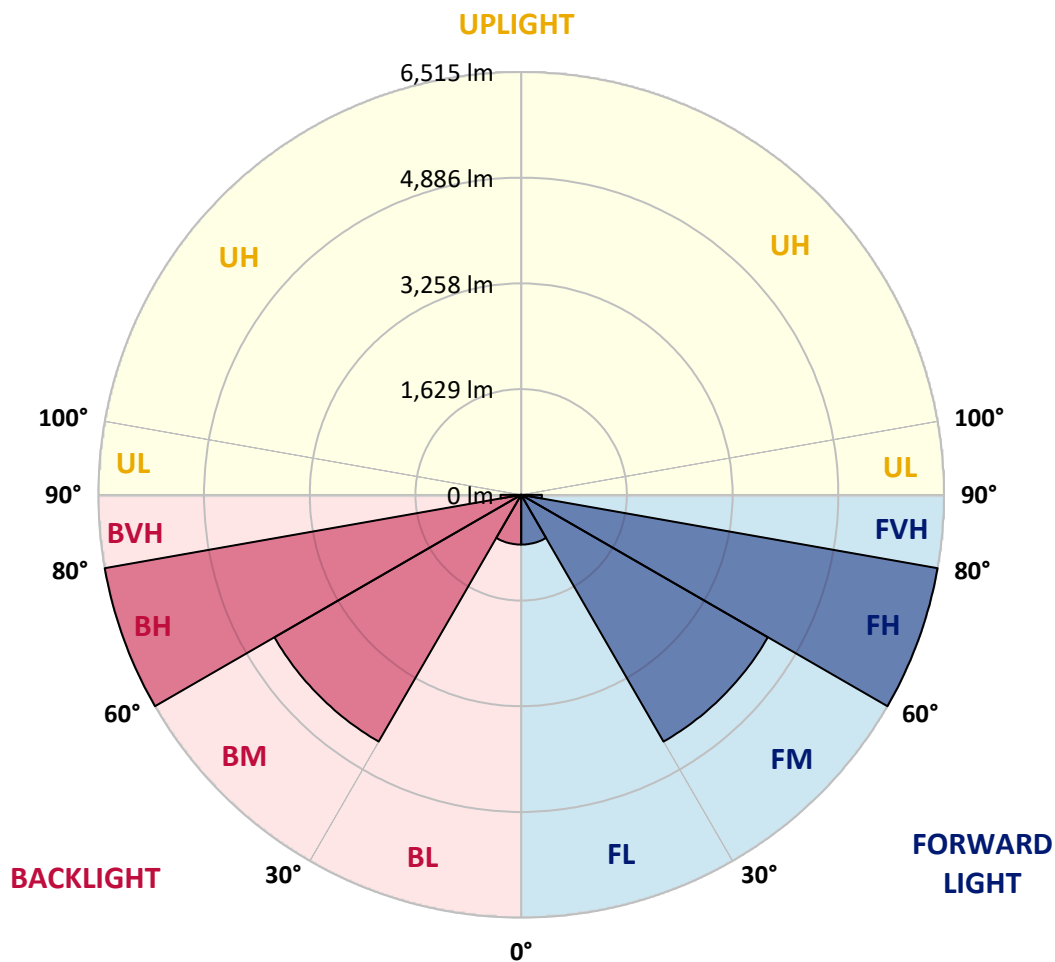
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	767.2	3.2			
FM	(30°-60°)	4390.2	18.3			
FH	(60°-80°)	6515.3	27.2			G3/7500
FVH	(80°-90°)	319.3	1.3			G3/500
BL	(0°-30°)	767.2	3.2	B2/1000		
BM	(30°-60°)	4390.2	18.3	B3/5000		
BH	(60°-80°)	6515.3	27.2	B5		G3/7500
BVH	(80°-90°)	319.3	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°	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6	1391.6
2.5°	1400.7	1402.2	1400.7	1400.7	1399.2	1399.2	1399.2	1400.7	1400.7	1403.7	1402.2
5°	1429.6	1431.1	1428.0	1431.1	1431.1	1432.6	1431.1	1429.6	1431.1	1432.6	1428.0
7.5°	1470.6	1473.6	1472.1	1473.6	1475.1	1473.6	1473.6	1472.1	1475.1	1473.6	1470.6
10°	1523.7	1526.8	1525.3	1528.3	1529.8	1531.3	1531.3	1528.3	1526.8	1526.8	1525.3
12.5°	1587.5	1587.5	1587.5	1592.1	1595.1	1598.2	1596.7	1593.6	1589.1	1590.6	1584.5
15°	1657.4	1660.5	1660.5	1662.0	1669.6	1671.1	1669.6	1665.0	1663.5	1660.5	1657.4
17.5°	1734.9	1736.4	1737.9	1739.5	1748.6	1753.1	1747.1	1739.5	1739.5	1737.9	1737.9
20°	1815.4	1813.9	1816.9	1820.0	1826.1	1830.6	1829.1	1821.5	1815.4	1820.0	1818.5
22.5°	1889.9	1891.4	1892.9	1897.5	1908.1	1909.6	1905.1	1899.0	1891.4	1892.9	1892.9
25°	1959.7	1961.3	1964.3	1970.4	1982.5	1990.1	1984.1	1974.9	1964.3	1964.3	1965.8
27.5°	2031.1	2032.7	2034.2	2044.8	2060.0	2069.1	2064.6	2049.4	2037.2	2034.2	2029.6
30°	2110.1	2110.1	2113.2	2126.9	2146.6	2157.2	2151.2	2132.9	2114.7	2111.7	2111.7
32.5°	2210.4	2204.3	2208.9	2227.1	2248.4	2260.5	2256.0	2234.7	2211.9	2207.4	2207.4
35°	2330.4	2327.4	2330.4	2351.7	2377.5	2395.8	2385.1	2365.4	2341.1	2336.5	2333.5
37.5°	2473.2	2474.8	2483.9	2508.2	2543.1	2565.9	2555.3	2523.4	2494.5	2494.5	2494.5
40°	2654.0	2657.1	2675.3	2711.7	2761.9	2781.6	2769.5	2730.0	2696.6	2684.4	2687.4
42.5°	2900.1	2898.6	2927.5	2973.0	3032.3	3061.2	3041.4	2998.9	2950.3	2930.5	2932.0
45°	3190.3	3211.6	3241.9	3299.7	3374.1	3424.2	3389.3	3342.2	3269.3	3240.4	3238.9
47.5°	3541.2	3564.0	3602.0	3697.7	3787.3	3848.1	3820.7	3743.3	3638.4	3597.4	3582.2
50°	3940.8	3969.6	4018.2	4141.3	4268.9	4337.3	4288.7	4186.9	4074.5	4012.2	3997.0
52.5°	4390.4	4399.6	4472.5	4621.4	4779.4	4862.9	4808.2	4686.7	4542.4	4484.6	4442.1
55°	4888.7	4896.3	4979.9	5148.5	5327.8	5426.5	5356.6	5203.2	5069.5	4969.2	4978.4
57.5°	5350.6	5373.4	5496.4	5693.9	5905.1	6025.1	5949.1	5786.6	5646.8	5532.9	5546.5
60°	5844.3	5868.6	5997.7	6233.2	6518.8	6678.3	6579.6	6404.9	6260.6	6152.7	6139.0
62.5°	6368.4	6382.1	6523.4	6734.5	7099.1	7355.9	7261.7	7068.8	6900.1	6793.8	6783.2
65°	6853.0	6871.3	6991.3	7222.2	7597.4	7972.7	7919.5	7652.1	7424.3	7270.8	7249.5
67.5°	7029.3	7041.4	7210.0	7533.6	7965.1	8335.8	8351.0	7930.1	7599.0	7412.1	7407.5
70°	6822.7	6831.8	7047.5	7431.8	7981.8	8290.2	8235.5	7813.2	7406.0	7176.6	7153.8
72.5°	6359.3	6360.8	6558.3	6884.9	7436.4	7688.6	7456.2	7223.7	6802.9	6631.2	6585.7
75°	5516.2	5517.7	5654.4	5871.6	6265.1	6497.5	6233.2	6020.5	5772.9	5671.1	5617.9
77.5°	3793.4	3816.2	3957.5	4208.1	4639.6	4896.3	4550.0	4164.1	4013.7	3927.1	3875.4
80°	1826.1	1861.0	2023.6	2271.2	2722.4	3132.6	2705.7	2230.2	1937.0	1698.4	1741.0
82.5°	487.7	493.7	633.5	910.0	1268.5	1488.8	1209.3	846.2	533.2	358.5	328.1
85°	129.1	136.7	191.4	262.8	399.5	508.9	388.9	247.6	188.4	139.8	127.6
87.5°	34.9	41.0	66.8	80.5	100.3	80.5	100.3	86.6	83.6	44.1	31.9
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)