

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: P236709

Luminaire Tested: **ARCH-L-AF72-160-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-160-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20915.5 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

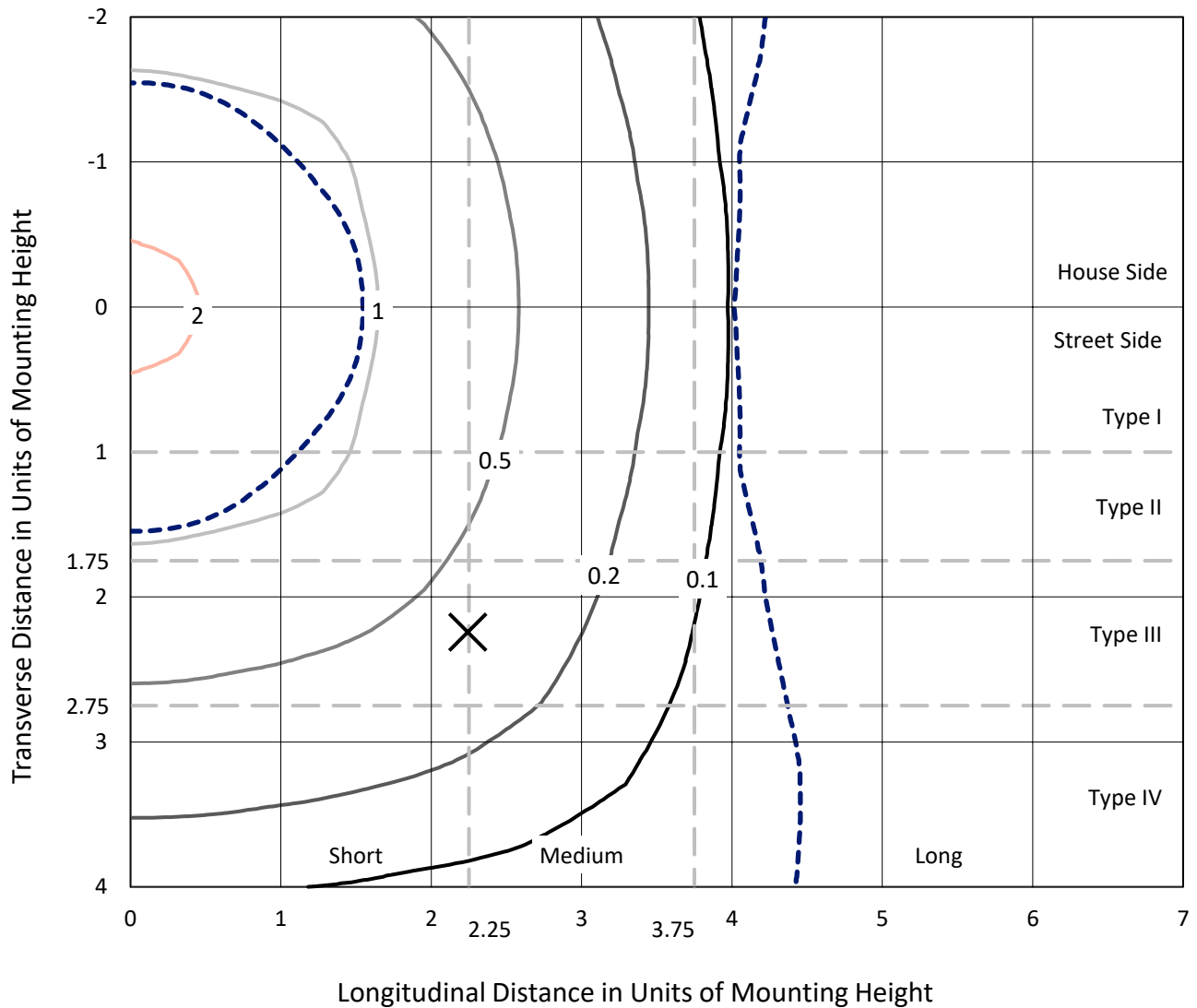
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

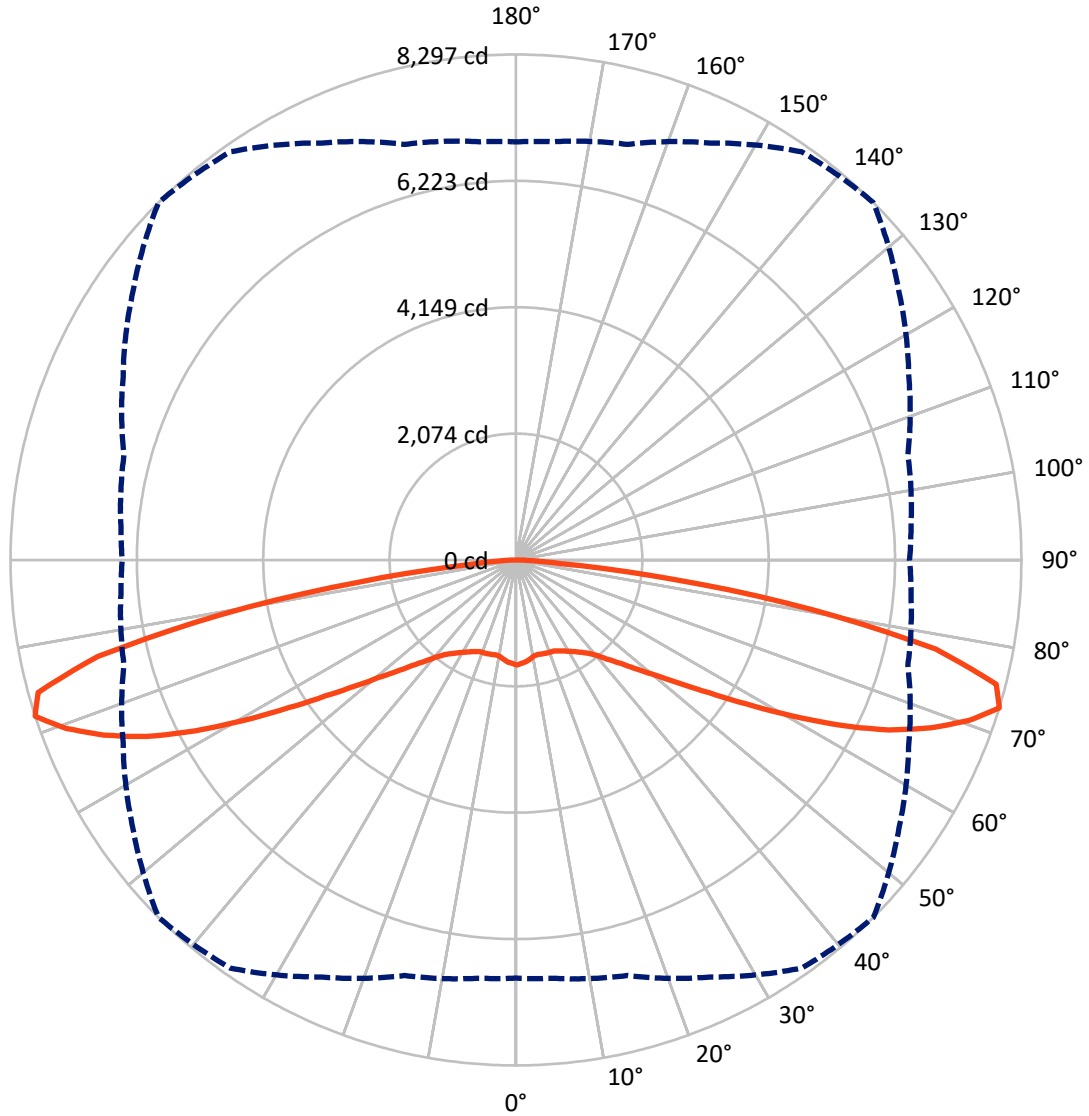
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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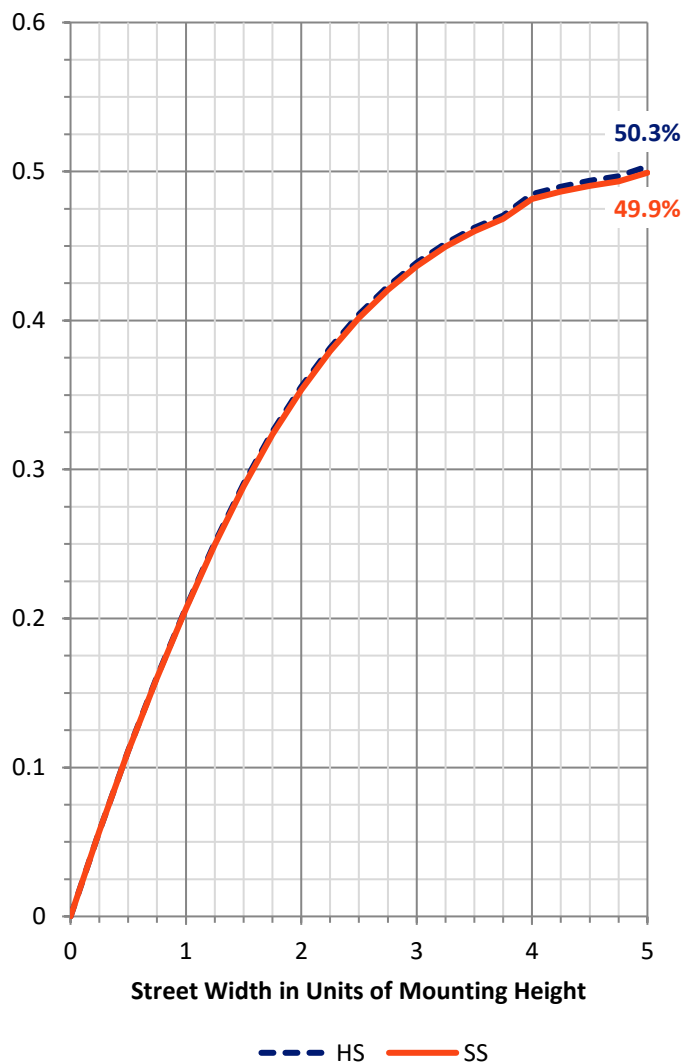
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10457.7	0.0	10457.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10457.7	0.0	10457.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20915.5	0.0	20915.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	0.8
10°-20°	457.7	2.2
20°-30°	765.9	3.7
30°-40°	1176.8	5.6
40°-50°	1948.5	9.3
50°-60°	3464.0	16.6
60°-70°	6060.2	29.0
70°-80°	6165.8	29.5
80°-90°	718.0	3.4
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°	20915.5	100.0
0°-180°	20915.5	100.0

Coefficient of Utilization



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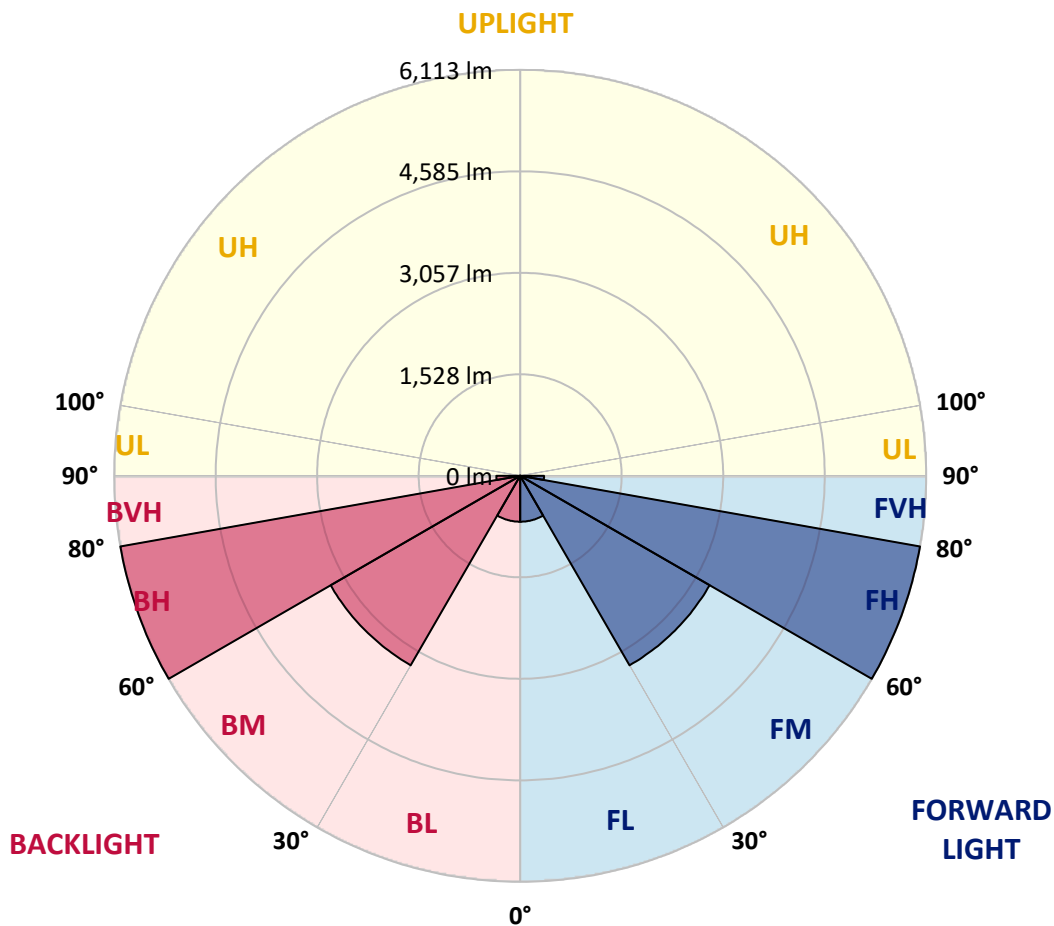
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.1	3.3			
FM (30°-60°)	3294.6	15.8			
FH (60°-80°)	6113.0	29.2			G3/7500
FVH (80°-90°)	359.0	1.7			G3/500
BL (0°-30°)	691.1	3.3	B2/1000		
BM (30°-60°)	3294.6	15.8	B3/5000		
BH (60°-80°)	6113.0	29.2	B5		G3/7500
BVH (80°-90°)	359.0	1.7			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°	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9
2.5°	1708.0	1712.0	1704.0	1704.0	1704.0	1700.1	1704.0	1700.1	1704.0	1708.0	1708.0
5°	1692.1	1692.1	1684.1	1684.1	1684.1	1680.1	1684.1	1684.1	1688.0	1692.1	1692.1
7.5°	1656.3	1656.3	1652.2	1648.2	1644.3	1644.3	1648.2	1648.2	1652.2	1656.3	1656.3
10°	1636.3	1632.4	1624.3	1612.4	1608.6	1604.5	1612.4	1620.5	1632.4	1644.3	1640.3
12.5°	1628.4	1624.3	1608.6	1596.5	1588.5	1592.6	1600.5	1608.6	1628.4	1640.3	1636.3
15°	1636.3	1628.4	1608.6	1588.5	1592.6	1600.5	1608.6	1608.6	1632.4	1644.3	1644.3
17.5°	1636.3	1632.4	1608.6	1592.6	1596.5	1608.6	1612.4	1608.6	1628.4	1648.2	1648.2
20°	1640.3	1640.3	1608.6	1596.5	1600.5	1612.4	1616.4	1612.4	1628.4	1652.2	1652.2
22.5°	1648.2	1644.3	1612.4	1604.5	1612.4	1620.5	1624.3	1620.5	1636.3	1656.3	1660.2
25°	1664.2	1656.3	1628.4	1624.3	1640.3	1652.2	1652.2	1644.3	1652.2	1672.2	1672.2
27.5°	1684.1	1680.1	1648.2	1648.2	1668.2	1692.1	1680.1	1664.2	1672.2	1692.1	1692.1
30°	1720.0	1715.9	1684.1	1684.1	1712.0	1739.9	1712.0	1692.1	1704.0	1723.9	1727.9
32.5°	1771.7	1771.7	1743.8	1735.9	1783.6	1795.5	1783.6	1743.8	1751.8	1779.7	1779.7
35°	1859.3	1851.3	1823.4	1819.5	1867.2	1863.3	1859.3	1823.4	1831.4	1863.3	1863.3
37.5°	1974.8	1970.8	1946.9	1935.0	1958.8	1942.8	1950.9	1935.0	1954.8	1978.6	1982.7
40°	2122.1	2118.1	2098.3	2082.3	2090.2	2066.3	2074.3	2082.3	2102.1	2118.1	2122.1
42.5°	2305.2	2305.2	2285.2	2257.4	2245.5	2233.6	2233.6	2249.4	2269.4	2289.3	2289.3
45°	2532.1	2532.1	2508.3	2480.4	2444.5	2424.7	2432.6	2448.5	2472.4	2496.3	2504.2
47.5°	2798.9	2798.9	2767.0	2739.1	2703.3	2679.5	2679.5	2687.4	2723.3	2743.2	2755.1
50°	3097.5	3085.6	3053.7	3025.8	3005.9	2974.0	2978.1	2974.0	3005.9	3033.8	3041.8
52.5°	3408.1	3404.1	3372.2	3364.2	3376.2	3360.3	3360.3	3320.4	3332.4	3348.4	3344.3
55°	3794.2	3782.2	3754.3	3770.3	3818.1	3842.0	3834.0	3770.3	3734.5	3742.4	3738.6
57.5°	4216.2	4204.3	4196.3	4244.0	4351.6	4451.1	4431.2	4283.9	4216.2	4220.2	4224.2
60°	4646.2	4646.2	4670.1	4789.6	5020.5	5183.7	5124.0	4877.2	4757.7	4733.8	4725.9
62.5°	5088.2	5100.1	5151.9	5351.0	5705.3	5976.1	5824.7	5474.3	5295.1	5247.4	5231.5
65°	5601.7	5613.7	5689.3	5936.2	6406.0	6728.5	6469.7	6139.3	5888.4	5788.9	5772.9
67.5°	6346.3	6354.2	6413.9	6652.8	7094.7	7353.5	7086.8	6792.2	6521.4	6406.0	6398.0
70°	7015.1	7023.0	7074.9	7389.4	7795.4	7887.1	7592.4	7218.2	6935.6	6843.9	6828.0
72.5°	6863.8	6891.7	7062.9	7552.6	8177.7	8297.1	7676.0	7114.6	6660.8	6509.4	6461.7
75°	5757.0	5800.8	6071.5	6808.1	7803.4	8141.9	7182.3	6151.2	5474.3	5183.7	5108.1
77.5°	3360.3	3523.5	3989.3	4932.8	6354.2	7043.0	5916.3	4502.9	3364.2	2886.5	2727.2
80°	919.8	1007.3	1345.7	2269.4	3985.3	4932.8	3774.4	2066.3	1114.8	836.1	776.4
82.5°	290.6	386.2	489.7	653.0	1564.7	2599.9	1401.5	609.1	477.8	394.2	350.4
85°	155.2	167.1	274.7	318.5	469.9	728.5	434.0	318.5	286.7	211.0	199.1
87.5°	79.6	83.6	155.2	155.2	207.0	171.2	187.2	171.2	163.3	103.5	91.6
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)