

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: P236705

Luminaire Tested: **ARCH-L-AF72-120-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236705
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-AF72-120-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16540.8 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

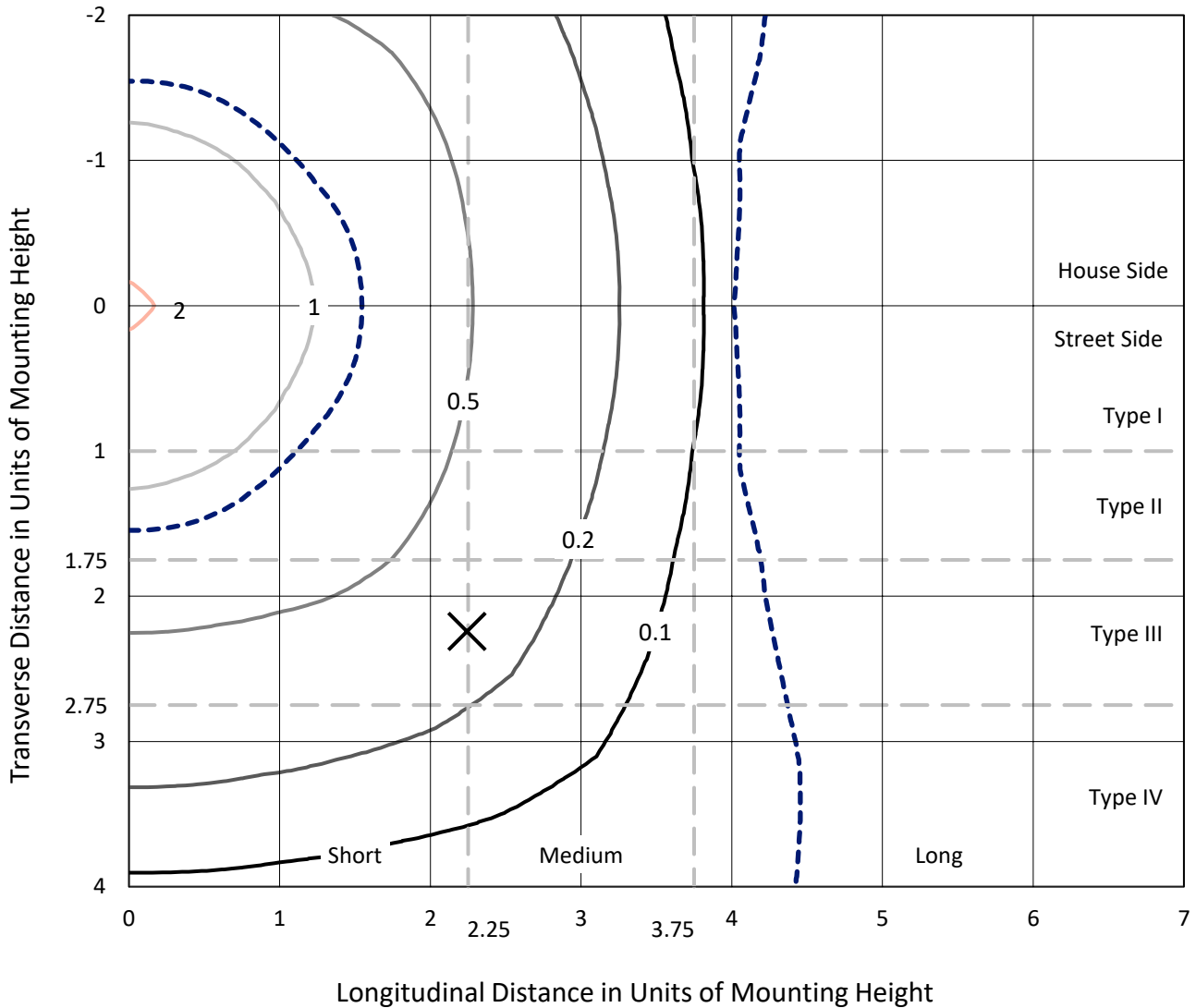
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

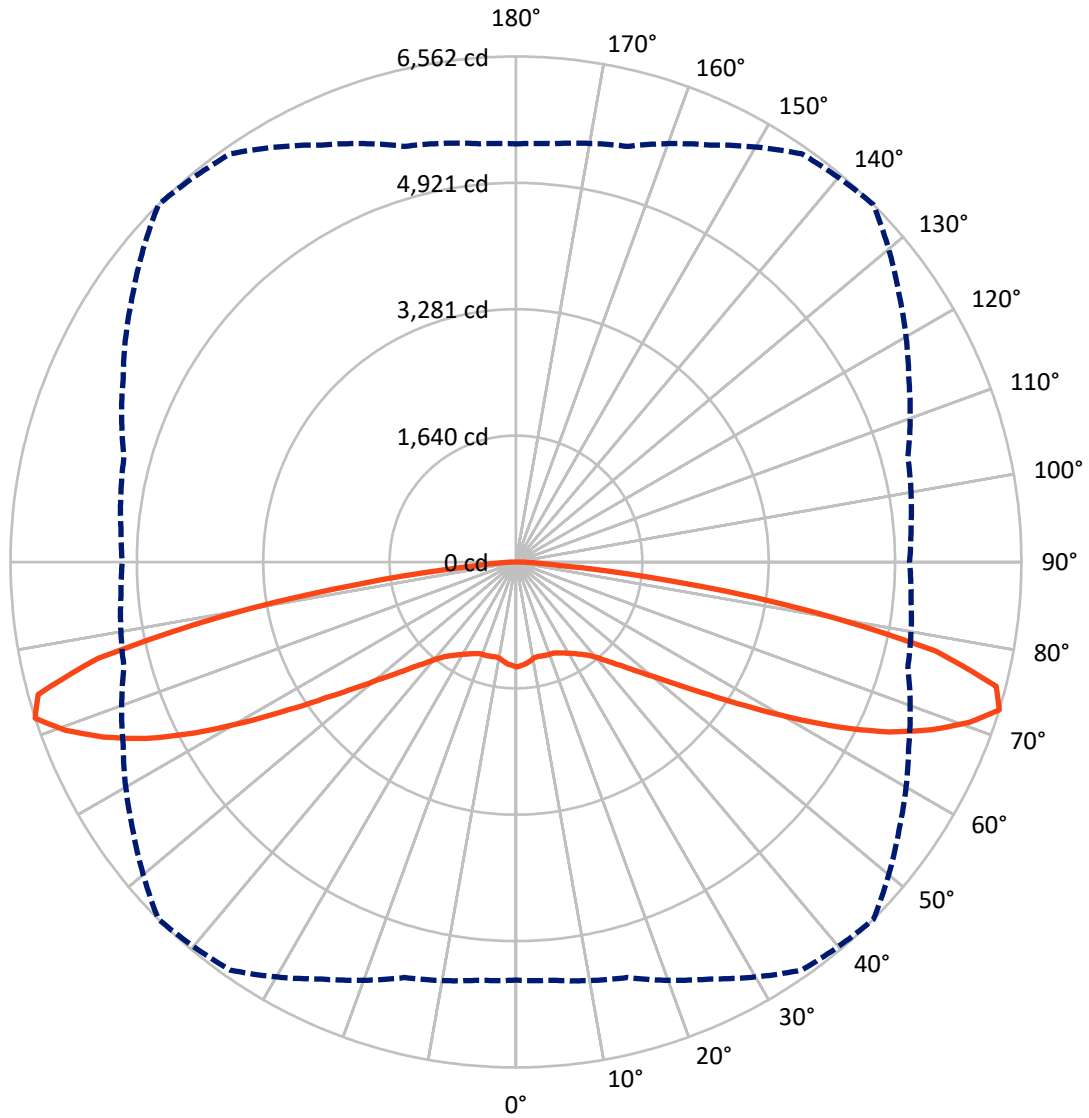
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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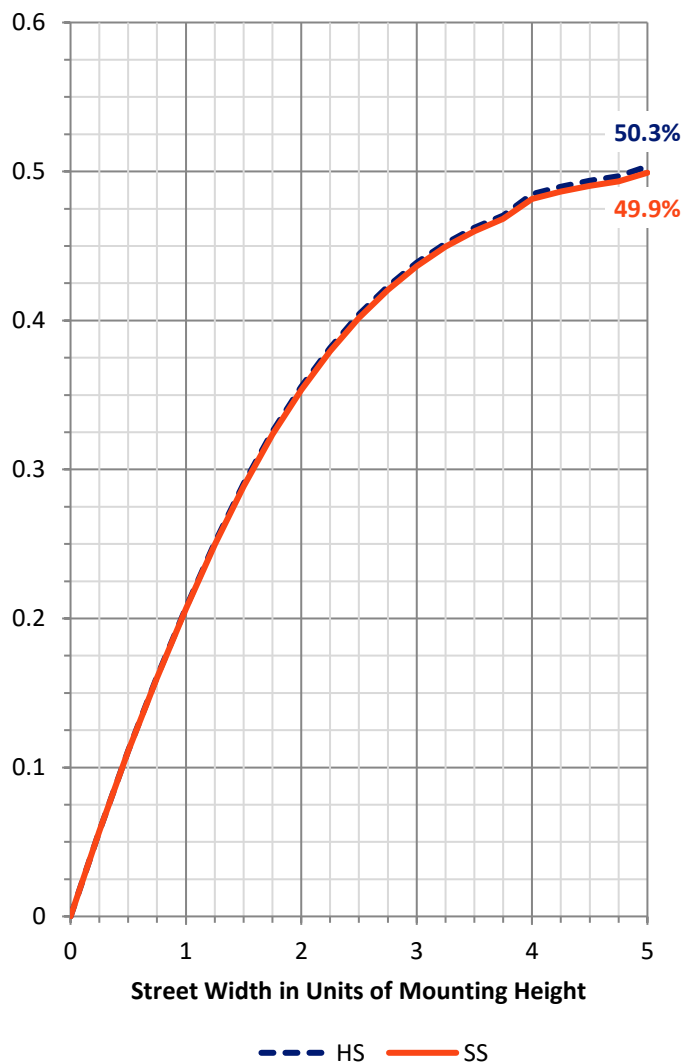
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8270.4	0.0	8270.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8270.4	0.0	8270.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16540.8	0.0	16540.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	0.8
10°-20°	361.9	2.2
20°-30°	605.7	3.7
30°-40°	930.6	5.6
40°-50°	1540.9	9.3
50°-60°	2739.5	16.6
60°-70°	4792.7	29.0
70°-80°	4876.2	29.5
80°-90°	567.8	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°	16540.8	100.0
0°-180°	16540.8	100.0

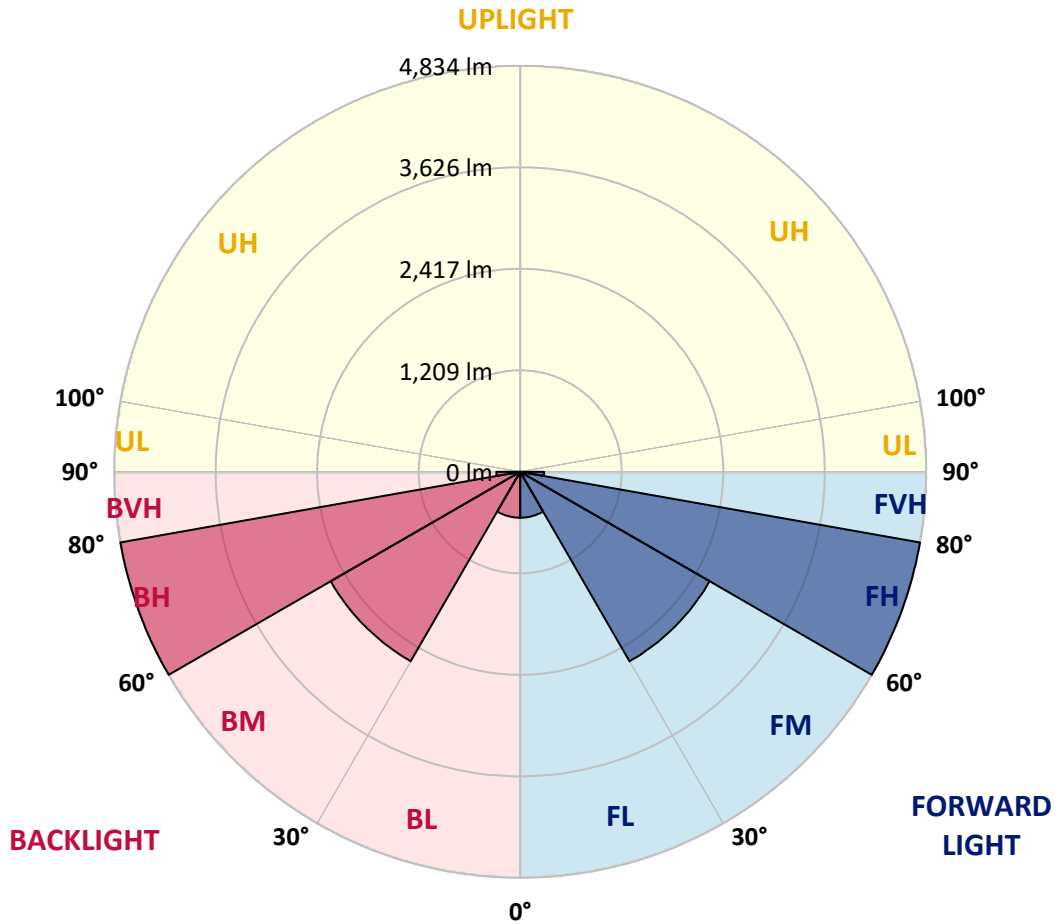


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.5	3.3			
FM (30°-60°)	2605.5	15.8			
FH (60°-80°)	4834.4	29.2			G2/5000
FVH (80°-90°)	283.9	1.7			G3/500
BL (0°-30°)	546.5	3.3	B2/1000		
BM (30°-60°)	2605.5	15.8	B3/5000		
BH (60°-80°)	4834.4	29.2	B4/5000		G2/5000
BVH (80°-90°)	283.9	1.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1350.8	1353.9	1347.6	1347.6	1347.6	1344.4	1347.6	1344.4	1347.6	1350.8	1350.8
5°	1338.2	1338.2	1331.9	1331.9	1331.9	1328.7	1331.9	1331.9	1335.0	1338.2	1338.2
7.5°	1309.8	1309.8	1306.6	1303.6	1300.4	1300.4	1303.6	1303.6	1306.6	1309.8	1309.8
10°	1294.0	1290.9	1284.7	1275.2	1272.0	1268.9	1275.2	1281.5	1290.9	1300.4	1297.2
12.5°	1287.7	1284.7	1272.0	1262.6	1256.3	1259.4	1265.8	1272.0	1287.7	1297.2	1294.0
15°	1294.0	1287.7	1272.0	1256.3	1259.4	1265.8	1272.0	1272.0	1290.9	1300.4	1300.4
17.5°	1294.0	1290.9	1272.0	1259.4	1262.6	1272.0	1275.2	1272.0	1287.7	1303.6	1303.6
20°	1297.2	1297.2	1272.0	1262.6	1265.8	1275.2	1278.4	1275.2	1287.7	1306.6	1306.6
22.5°	1303.6	1300.4	1275.2	1268.9	1275.2	1281.5	1284.7	1281.5	1294.0	1309.8	1313.0
25°	1316.1	1309.8	1287.7	1284.7	1297.2	1306.6	1306.6	1300.4	1306.6	1322.4	1322.4
27.5°	1331.9	1328.7	1303.6	1303.6	1319.3	1338.2	1328.7	1316.1	1322.4	1338.2	1338.2
30°	1360.2	1357.0	1331.9	1331.9	1353.9	1375.9	1353.9	1338.2	1347.6	1363.3	1366.5
32.5°	1401.1	1401.1	1379.1	1372.9	1410.5	1420.1	1410.5	1379.1	1385.4	1407.5	1407.5
35°	1470.4	1464.1	1442.0	1439.0	1476.6	1473.6	1470.4	1442.0	1448.3	1473.6	1473.6
37.5°	1561.8	1558.6	1539.7	1530.1	1549.1	1536.5	1542.8	1530.1	1545.9	1564.8	1568.0
40°	1678.2	1675.1	1659.3	1646.7	1653.0	1634.1	1640.4	1646.7	1662.5	1675.1	1678.2
42.5°	1823.0	1823.0	1807.2	1785.3	1775.8	1766.4	1766.4	1779.0	1794.7	1810.4	1810.4
45°	2002.5	2002.5	1983.6	1961.5	1933.3	1917.5	1923.8	1936.4	1955.3	1974.2	1980.5
47.5°	2213.5	2213.5	2188.3	2166.3	2137.8	2119.0	2119.0	2125.3	2153.6	2169.4	2178.8
50°	2449.6	2440.2	2414.9	2392.9	2377.2	2352.1	2355.2	2352.1	2377.2	2399.3	2405.6
52.5°	2695.2	2692.0	2666.9	2660.6	2670.0	2657.4	2657.4	2625.9	2635.4	2648.0	2644.8
55°	3000.6	2991.2	2969.1	2981.6	3019.5	3038.4	3032.1	2981.6	2953.4	2959.8	2956.5
57.5°	3334.4	3324.9	3318.6	3356.5	3441.4	3520.2	3504.4	3387.9	3334.4	3337.6	3340.7
60°	3674.4	3674.4	3693.3	3787.8	3970.4	4099.5	4052.2	3857.1	3762.6	3743.7	3737.4
62.5°	4023.9	4033.3	4074.3	4231.7	4512.0	4726.0	4606.4	4329.3	4187.7	4149.8	4137.2
65°	4430.0	4439.5	4499.3	4694.6	5066.2	5321.2	5116.5	4855.2	4656.7	4578.1	4565.5
67.5°	5018.9	5025.2	5072.4	5261.3	5610.8	5815.5	5604.5	5371.5	5157.4	5066.2	5059.8
70°	5547.8	5554.0	5595.0	5843.8	6165.0	6237.4	6004.4	5708.4	5484.9	5412.4	5399.8
72.5°	5428.2	5450.2	5585.7	5972.8	6467.3	6561.7	6070.5	5626.6	5267.6	5148.0	5110.2
75°	4552.9	4587.5	4801.6	5384.1	6171.3	6438.8	5680.1	4864.6	4329.3	4099.5	4039.7
77.5°	2657.4	2786.5	3154.9	3901.1	5025.2	5569.8	4678.8	3561.1	2660.6	2282.8	2156.8
80°	727.3	796.6	1064.1	1794.7	3151.7	3901.1	2984.9	1634.1	881.6	661.2	613.9
82.5°	229.9	305.4	387.4	516.4	1237.4	2056.0	1108.3	481.8	377.8	311.7	277.1
85°	122.8	132.2	217.2	251.9	371.5	576.3	343.2	251.9	226.7	166.8	157.5
87.5°	63.0	66.1	122.8	122.8	163.8	135.4	147.9	135.4	129.2	81.8	72.4
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)