

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: P236706

Luminaire Tested: **ARCH-L-AF72-130-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236706
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-AF72-130-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17728.4 lumens
Efficiency: N/A
Efficacy: 133.3 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

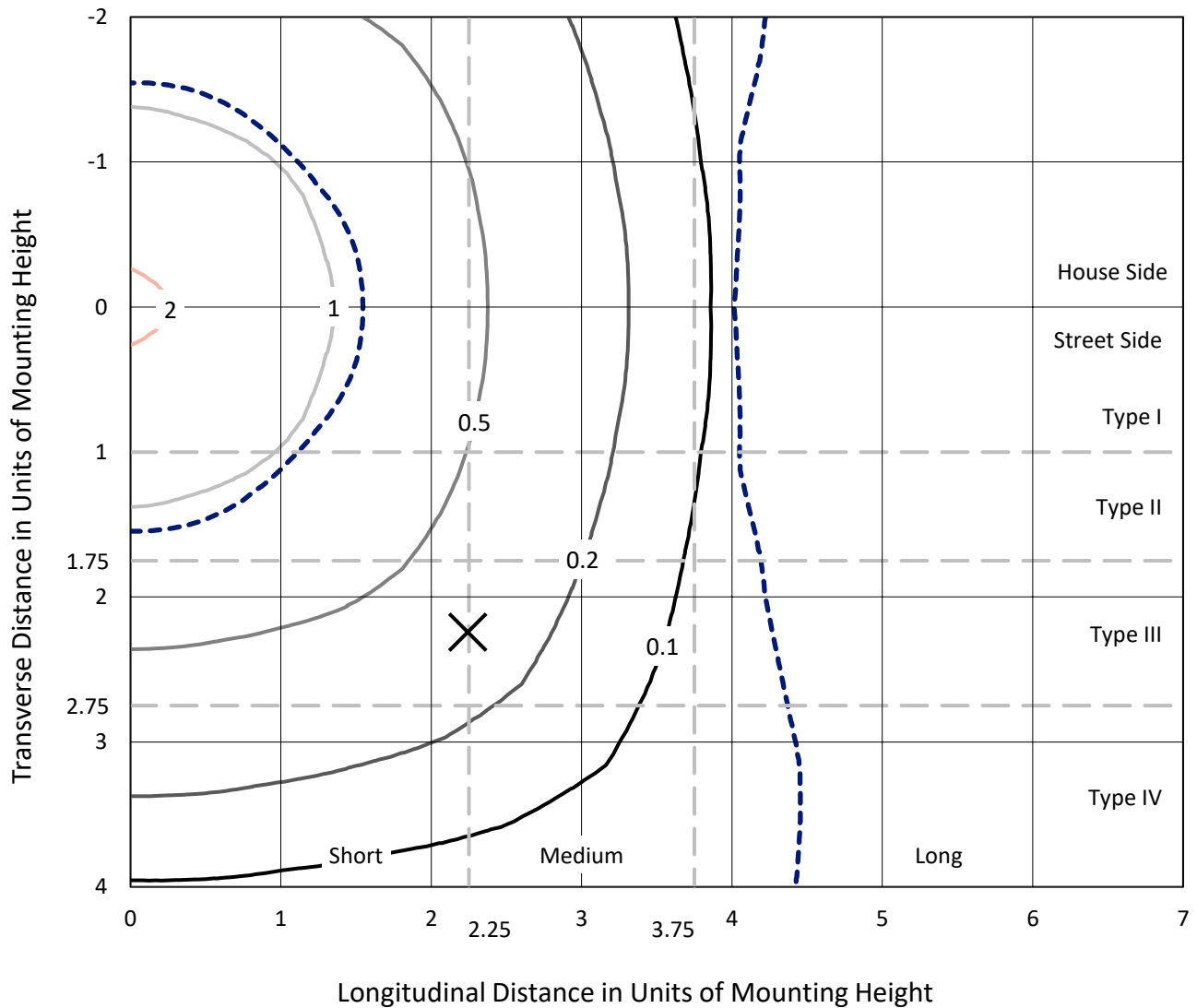
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

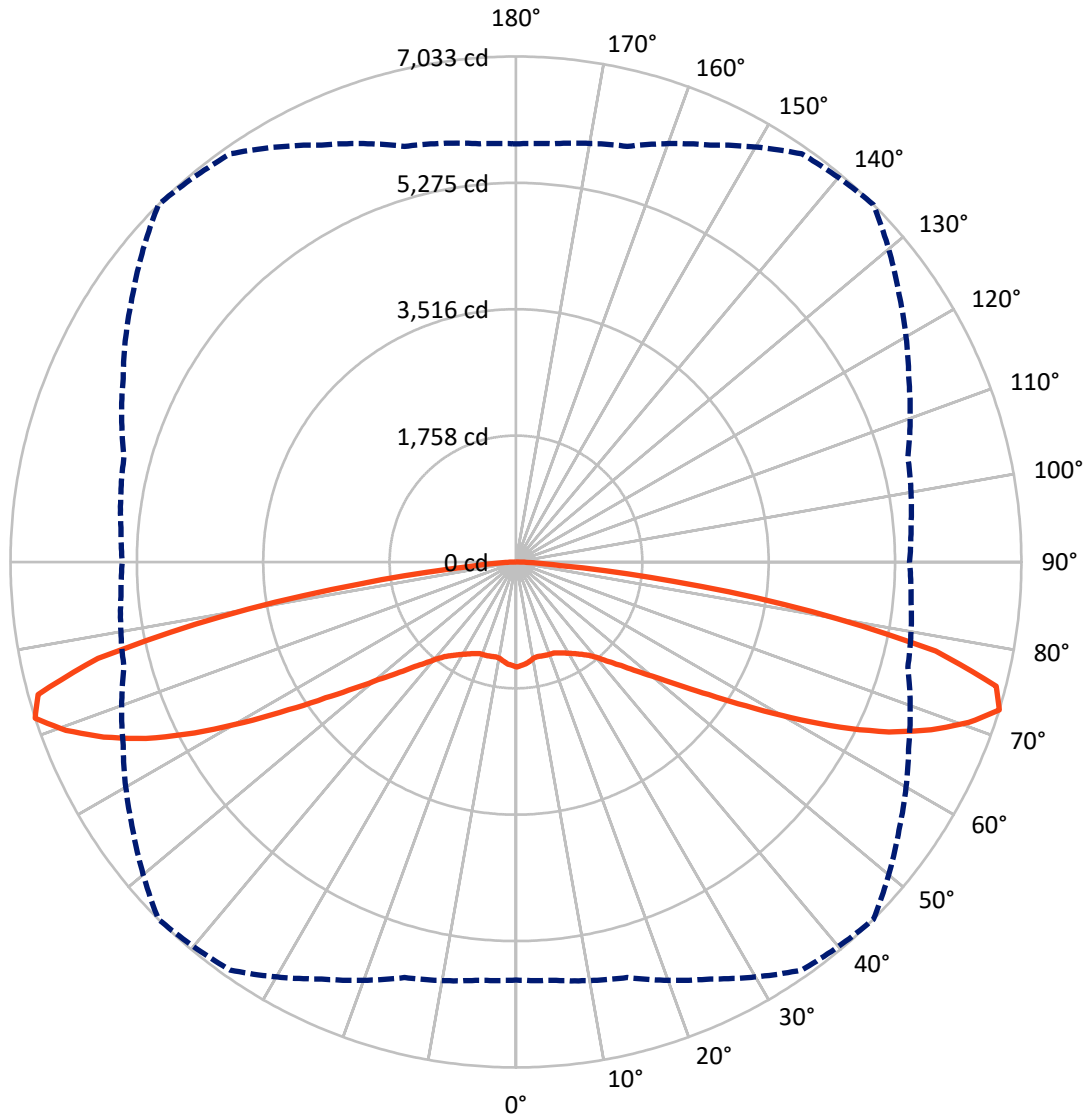
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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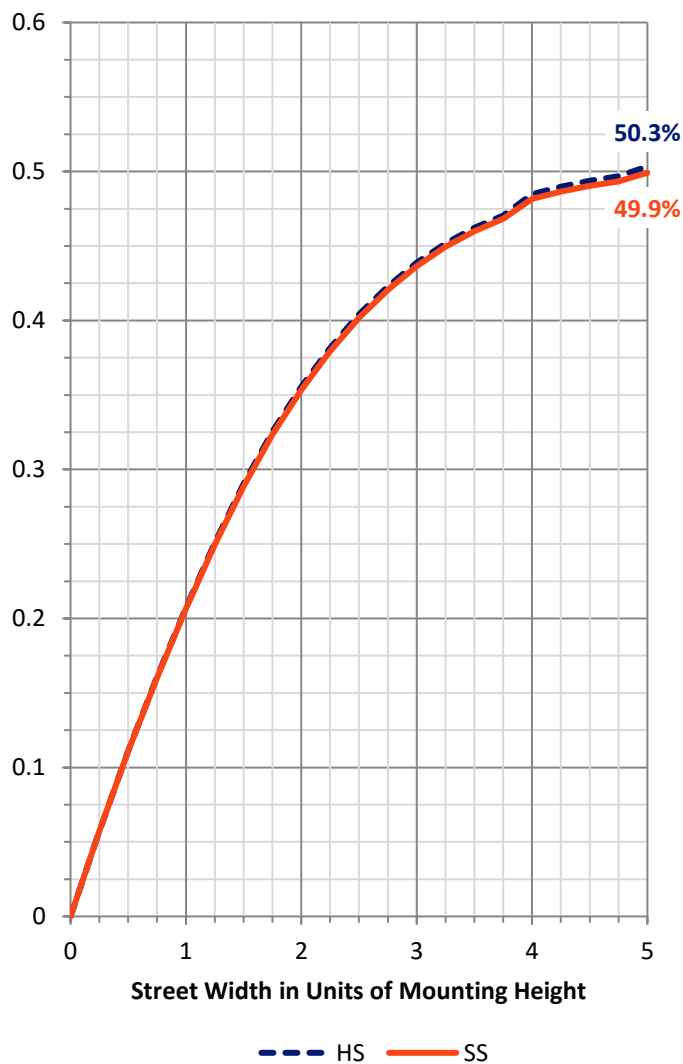
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8864.2	0.0	8864.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8864.2	0.0	8864.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17728.4	0.0	17728.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	0.8
10°-20°	387.9	2.2
20°-30°	649.2	3.7
30°-40°	997.5	5.6
40°-50°	1651.6	9.3
50°-60°	2936.2	16.6
60°-70°	5136.8	29.0
70°-80°	5226.3	29.5
80°-90°	608.6	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°	17728.4	100.0
0°-180°	17728.4	100.0

Coefficient of Utilization



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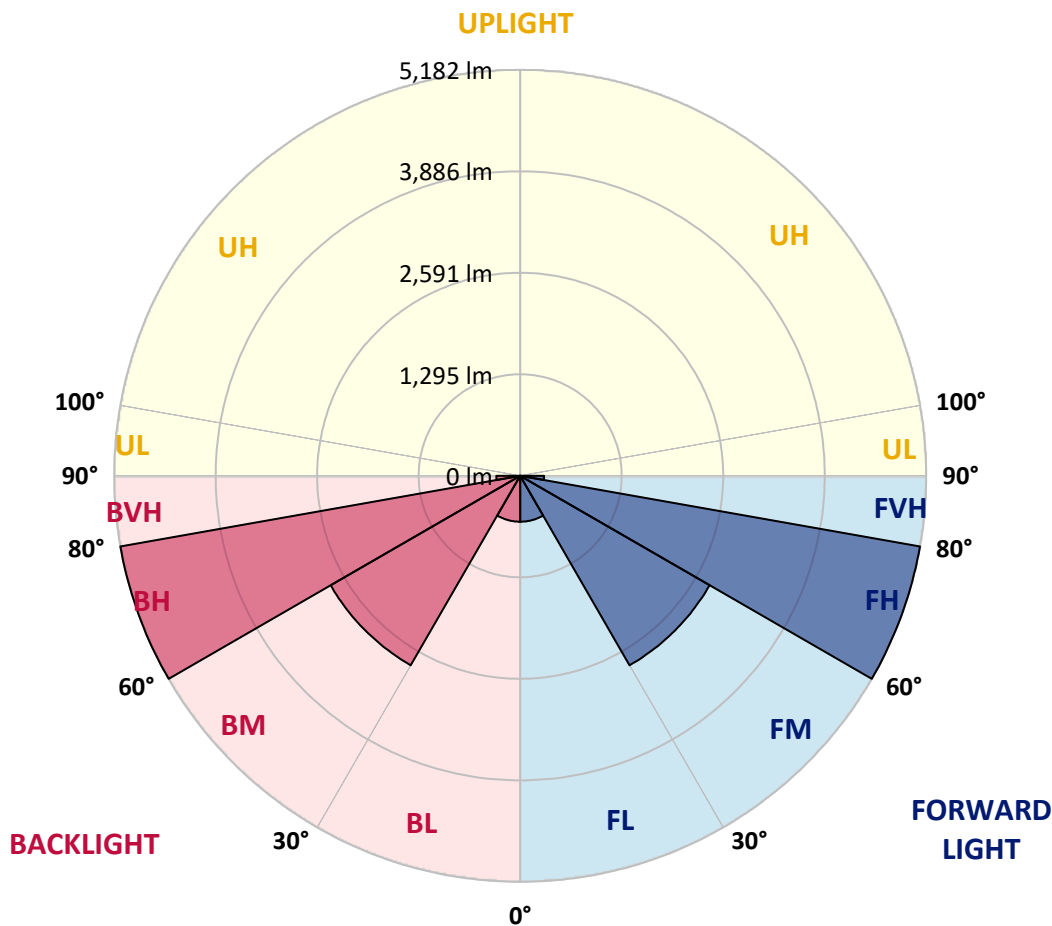
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.8	3.3			
FM (30°-60°)	2792.6	15.8			
FH (60°-80°)	5181.5	29.2			G3/7500
FVH (80°-90°)	304.3	1.7			G3/500
BL (0°-30°)	585.8	3.3	B2/1000		
BM (30°-60°)	2792.6	15.8	B3/5000		
BH (60°-80°)	5181.5	29.2	B5		G3/7500
BVH (80°-90°)	304.3	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°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1447.6	1451.1	1444.4	1444.4	1444.4	1441.0	1444.4	1441.0	1444.4	1447.6	1447.6
5°	1434.2	1434.2	1427.5	1427.5	1427.5	1424.0	1427.5	1427.5	1430.9	1434.2	1434.2
7.5°	1403.9	1403.9	1400.4	1397.1	1393.7	1393.7	1397.1	1397.1	1400.4	1403.9	1403.9
10°	1386.9	1383.7	1376.8	1366.8	1363.3	1360.0	1366.8	1373.5	1383.7	1393.7	1390.4
12.5°	1380.3	1376.8	1363.3	1353.2	1346.5	1349.9	1356.7	1363.3	1380.3	1390.4	1386.9
15°	1386.9	1380.3	1363.3	1346.5	1349.9	1356.7	1363.3	1363.3	1383.7	1393.7	1393.7
17.5°	1386.9	1383.7	1363.3	1349.9	1353.2	1363.3	1366.8	1363.3	1380.3	1397.1	1397.1
20°	1390.4	1390.4	1363.3	1353.2	1356.7	1366.8	1370.1	1366.8	1380.3	1400.4	1400.4
22.5°	1397.1	1393.7	1366.8	1360.0	1366.8	1373.5	1376.8	1373.5	1386.9	1403.9	1407.3
25°	1410.6	1403.9	1380.3	1376.8	1390.4	1400.4	1400.4	1393.7	1400.4	1417.3	1417.3
27.5°	1427.5	1424.0	1397.1	1397.1	1414.1	1434.2	1424.0	1410.6	1417.3	1434.2	1434.2
30°	1457.8	1454.5	1427.5	1427.5	1451.1	1474.8	1451.1	1434.2	1444.4	1461.3	1464.6
32.5°	1501.8	1501.8	1478.1	1471.4	1511.8	1522.0	1511.8	1478.1	1484.9	1508.5	1508.5
35°	1575.9	1569.2	1545.6	1542.2	1582.7	1579.4	1575.9	1545.6	1552.3	1579.4	1579.4
37.5°	1673.9	1670.5	1650.3	1640.1	1660.3	1646.9	1653.6	1640.1	1656.9	1677.2	1680.6
40°	1798.7	1795.3	1778.4	1765.0	1771.7	1751.4	1758.2	1765.0	1781.8	1795.3	1798.7
42.5°	1953.9	1953.9	1937.0	1913.4	1903.3	1893.3	1893.3	1906.7	1923.5	1940.5	1940.5
45°	2146.3	2146.3	2126.0	2102.3	2072.1	2055.1	2061.9	2075.4	2095.7	2116.0	2122.7
47.5°	2372.3	2372.3	2345.4	2321.8	2291.3	2271.2	2271.2	2277.9	2308.3	2325.1	2335.3
50°	2625.5	2615.3	2588.4	2564.8	2547.9	2520.8	2524.2	2520.8	2547.9	2571.5	2578.3
52.5°	2888.7	2885.3	2858.3	2851.5	2861.7	2848.2	2848.2	2814.5	2824.6	2838.1	2834.7
55°	3216.0	3205.8	3182.2	3195.9	3236.3	3256.6	3249.8	3195.9	3165.5	3172.3	3168.8
57.5°	3573.8	3563.6	3556.9	3597.4	3688.5	3772.8	3756.0	3631.1	3573.8	3577.1	3580.5
60°	3938.2	3938.2	3958.5	4059.7	4255.4	4393.9	4343.2	4134.0	4032.8	4012.4	4005.8
62.5°	4312.8	4323.0	4366.9	4535.6	4836.0	5065.4	4937.1	4640.1	4488.3	4447.8	4434.3
65°	4748.2	4758.2	4822.3	5031.6	5429.8	5703.3	5483.8	5203.7	4991.2	4906.8	4893.2
67.5°	5379.3	5385.9	5436.6	5639.1	6013.6	6233.0	6007.0	5757.2	5527.8	5429.8	5423.1
70°	5946.2	5952.9	5996.8	6263.4	6607.6	6685.2	6435.5	6118.3	5878.7	5801.0	5787.6
72.5°	5817.9	5841.5	5986.7	6401.7	6931.6	7032.8	6506.4	6030.6	5645.9	5517.6	5477.0
75°	4879.7	4916.8	5146.3	5770.6	6614.3	6901.3	6087.9	5213.9	4640.1	4393.9	4329.7
77.5°	2848.2	2986.6	3381.5	4181.3	5385.9	5969.8	5014.8	3816.8	2851.5	2446.7	2311.6
80°	779.6	853.8	1140.6	1923.5	3378.1	4181.3	3199.2	1751.4	944.9	708.6	658.1
82.5°	246.4	327.3	415.0	553.4	1326.3	2203.6	1187.8	516.4	405.0	334.2	296.9
85°	131.6	141.7	232.8	270.0	398.2	617.6	367.8	270.0	243.0	178.8	168.7
87.5°	67.5	70.9	131.6	131.6	175.5	145.1	158.7	145.1	138.3	87.7	77.6
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)