

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: P236745

Luminaire Tested: **ARCH-L-AF72-120-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 17102 lumens
Efficiency: N/A
Efficacy: 139.0 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

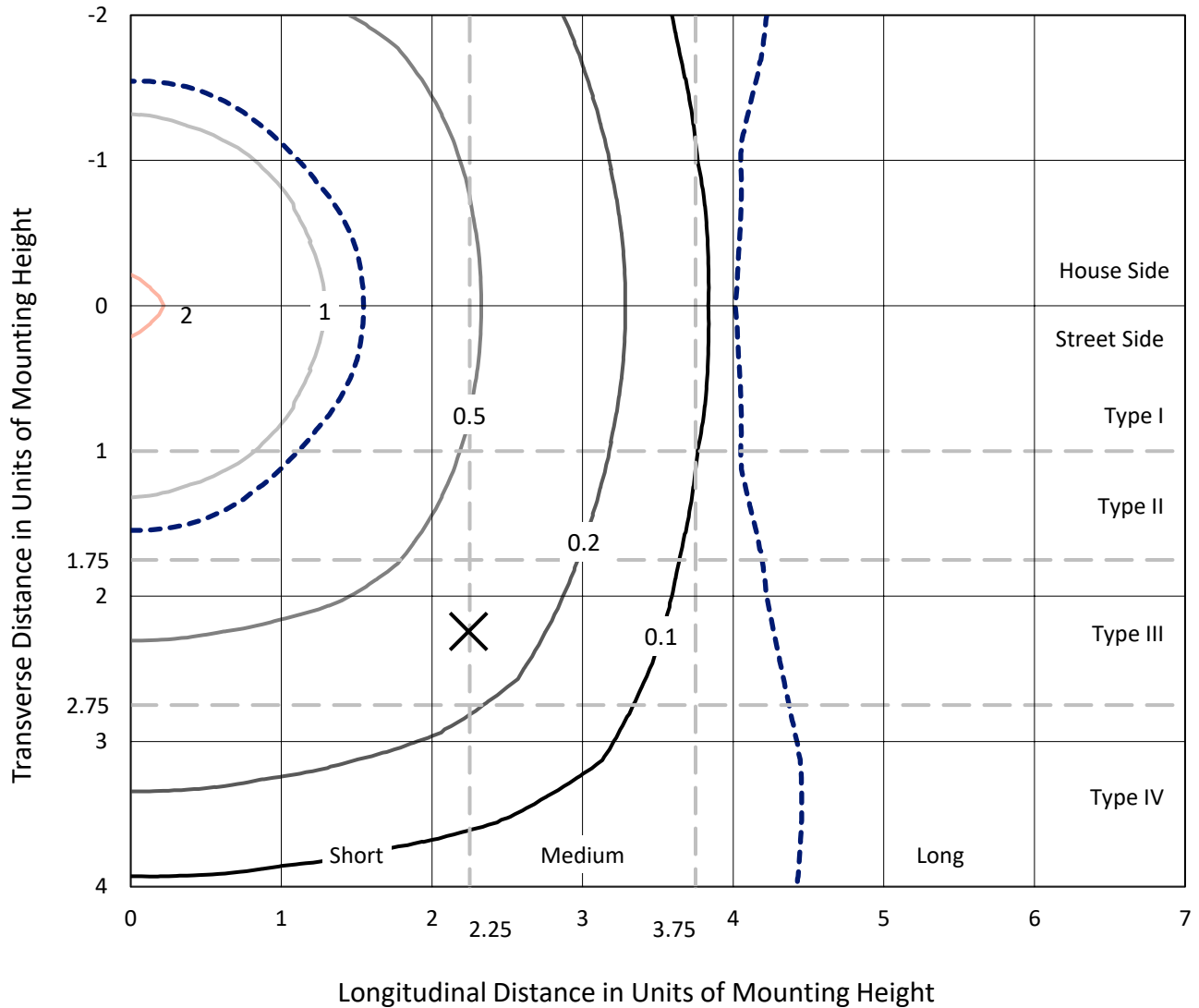
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

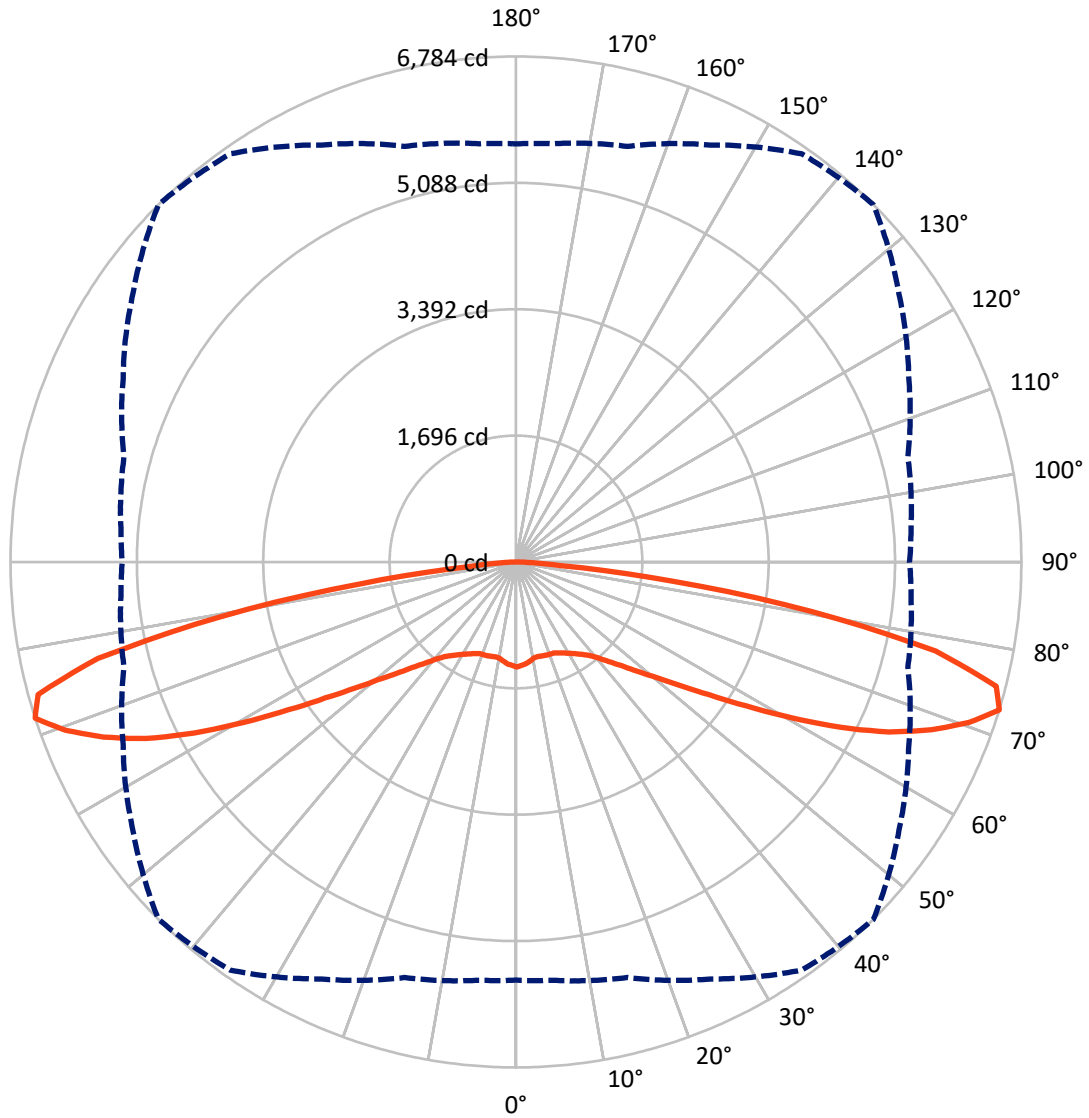
✕ Max cd
 - - - 1/2 Max cd



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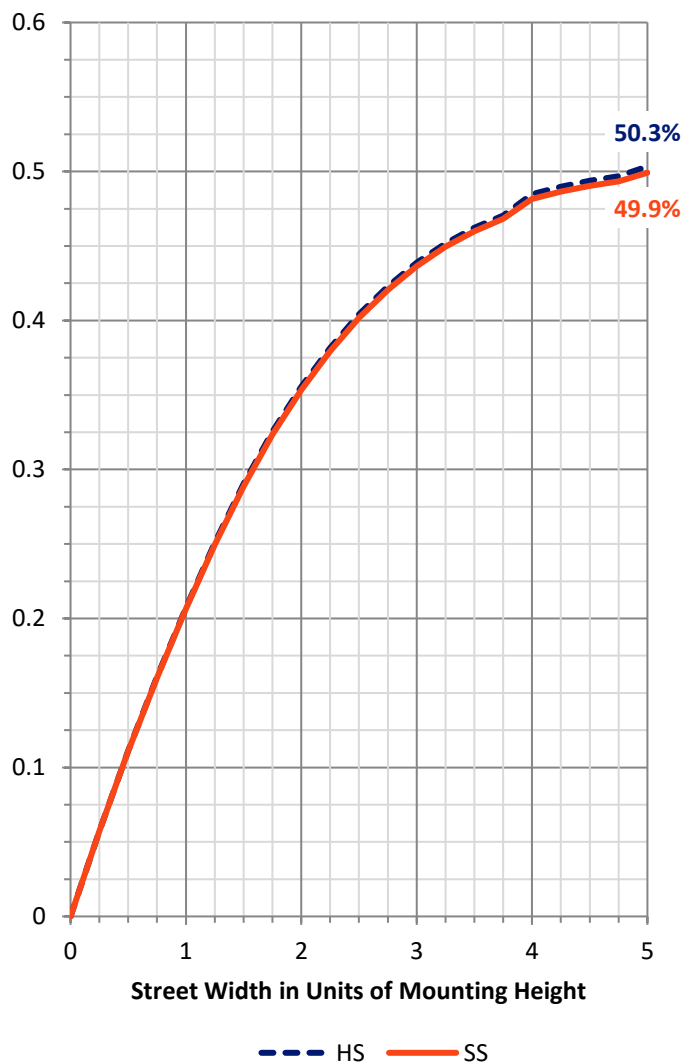
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8551.0	0.0	8551.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8551.0	0.0	8551.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17102.0	0.0	17102.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	0.8
10°-20°	374.2	2.2
20°-30°	626.2	3.7
30°-40°	962.2	5.6
40°-50°	1593.2	9.3
50°-60°	2832.4	16.6
60°-70°	4955.3	29.0
70°-80°	5041.6	29.5
80°-90°	587.1	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°	17102.0	100.0
0°-180°	17102.0	100.0



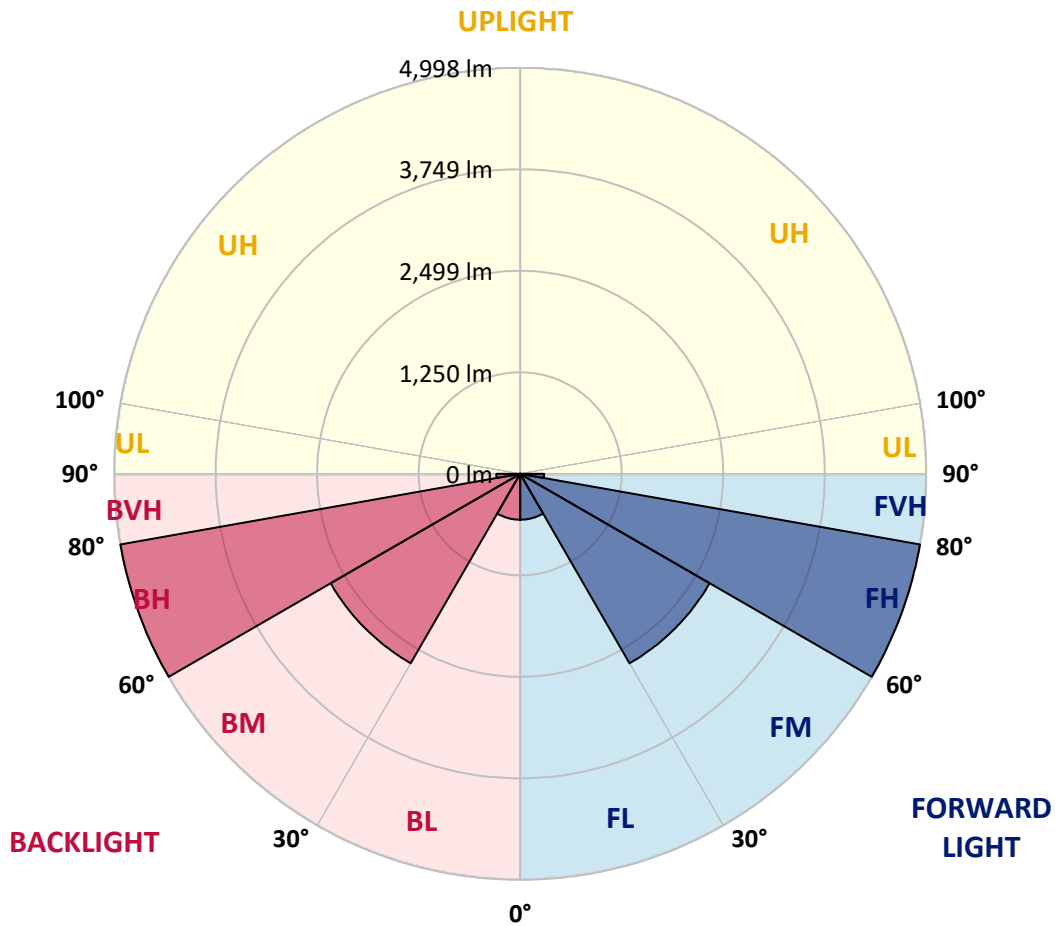
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.1	3.3			
FM (30°-60°)	2693.9	15.8			
FH (60°-80°)	4998.4	29.2			G2/5000
FVH (80°-90°)	293.5	1.7			G3/500
BL (0°-30°)	565.1	3.3	B2/1000		
BM (30°-60°)	2693.9	15.8	B3/5000		
BH (60°-80°)	4998.4	29.2	B4/5000		G2/5000
BVH (80°-90°)	293.5	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°	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6	1409.6
2.5°	1396.6	1399.8	1393.3	1393.3	1393.3	1390.1	1393.3	1390.1	1393.3	1396.6	1396.6
5°	1383.6	1383.6	1377.0	1377.0	1377.0	1373.8	1377.0	1377.0	1380.3	1383.6	1383.6
7.5°	1354.3	1354.3	1351.0	1347.7	1344.5	1344.5	1347.7	1347.7	1351.0	1354.3	1354.3
10°	1338.0	1334.7	1328.2	1318.5	1315.2	1311.9	1318.5	1325.0	1334.7	1344.5	1341.2
12.5°	1331.5	1328.2	1315.2	1305.4	1298.9	1302.2	1308.7	1315.2	1331.5	1341.2	1338.0
15°	1338.0	1331.5	1315.2	1298.9	1302.2	1308.7	1315.2	1315.2	1334.7	1344.5	1344.5
17.5°	1338.0	1334.7	1315.2	1302.2	1305.4	1315.2	1318.5	1315.2	1331.5	1347.7	1347.7
20°	1341.2	1341.2	1315.2	1305.4	1308.7	1318.5	1321.7	1318.5	1331.5	1351.0	1351.0
22.5°	1347.7	1344.5	1318.5	1311.9	1318.5	1325.0	1328.2	1325.0	1338.0	1354.3	1357.5
25°	1360.8	1354.3	1331.5	1328.2	1341.2	1351.0	1351.0	1344.5	1351.0	1367.3	1367.3
27.5°	1377.0	1373.8	1347.7	1347.7	1364.0	1383.6	1373.8	1360.8	1367.3	1383.6	1383.6
30°	1406.3	1403.1	1377.0	1377.0	1399.8	1422.6	1399.8	1383.6	1393.3	1409.6	1412.9
32.5°	1448.7	1448.7	1425.9	1419.4	1458.4	1468.2	1458.4	1425.9	1432.4	1455.2	1455.2
35°	1520.3	1513.8	1491.0	1487.7	1526.8	1523.5	1520.3	1491.0	1497.5	1523.5	1523.5
37.5°	1614.7	1611.4	1591.9	1582.1	1601.7	1588.7	1595.2	1582.1	1598.4	1617.9	1621.2
40°	1735.1	1731.9	1715.6	1702.6	1709.1	1689.6	1696.1	1702.6	1718.9	1731.9	1735.1
42.5°	1884.9	1884.9	1868.6	1845.8	1836.1	1826.3	1826.3	1839.3	1855.6	1871.9	1871.9
45°	2070.5	2070.5	2050.9	2028.1	1998.8	1982.6	1989.1	2002.1	2021.6	2041.2	2047.7
47.5°	2288.6	2288.6	2262.5	2239.7	2210.4	2190.9	2190.9	2197.4	2226.7	2243.0	2252.8
50°	2532.7	2523.0	2496.9	2474.1	2457.9	2431.8	2435.1	2431.8	2457.9	2480.6	2487.2
52.5°	2786.6	2783.4	2757.4	2750.8	2760.6	2747.6	2747.6	2715.0	2724.8	2737.8	2734.6
55°	3102.4	3092.7	3069.9	3082.9	3122.0	3141.5	3135.0	3082.9	3053.6	3060.1	3056.9
57.5°	3447.5	3437.7	3431.2	3470.3	3558.2	3639.6	3623.3	3502.8	3447.5	3450.8	3454.0
60°	3799.1	3799.1	3818.6	3916.3	4105.1	4238.6	4189.7	3987.9	3890.2	3870.7	3864.2
62.5°	4160.4	4170.2	4212.5	4375.3	4665.0	4886.4	4762.7	4476.2	4329.7	4290.7	4277.6
65°	4580.4	4590.2	4652.0	4853.8	5238.0	5501.7	5290.1	5019.9	4814.8	4733.4	4720.4
67.5°	5189.2	5195.7	5244.5	5439.8	5801.2	6012.8	5794.7	5553.8	5332.4	5238.0	5231.5
70°	5736.1	5742.6	5784.9	6042.1	6374.1	6449.0	6208.1	5902.1	5671.0	5596.1	5583.1
72.5°	5612.4	5635.2	5775.1	6175.6	6686.7	6784.3	6276.5	5817.5	5446.3	5322.6	5283.6
75°	4707.4	4743.2	4964.5	5566.8	6380.6	6657.4	5872.8	5029.6	4476.2	4238.6	4176.7
77.5°	2747.6	2881.1	3261.9	4033.5	5195.7	5758.9	4837.6	3681.9	2750.8	2360.2	2230.0
80°	752.0	823.6	1100.3	1855.6	3258.7	4033.5	3086.1	1689.6	911.5	683.6	634.8
82.5°	237.6	315.8	400.4	533.9	1279.4	2125.8	1145.9	498.1	390.7	322.3	286.5
85°	127.0	136.7	224.6	260.4	384.1	595.7	354.8	260.4	234.4	172.5	162.8
87.5°	65.1	68.4	127.0	127.0	169.3	140.0	153.0	140.0	133.5	84.6	74.9
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)