

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: P236704

Luminaire Tested: **ARCH-L-AF72-110-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236704
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-AF72-110-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15345.5 lumens
Efficiency: N/A
Efficacy: 135.8 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

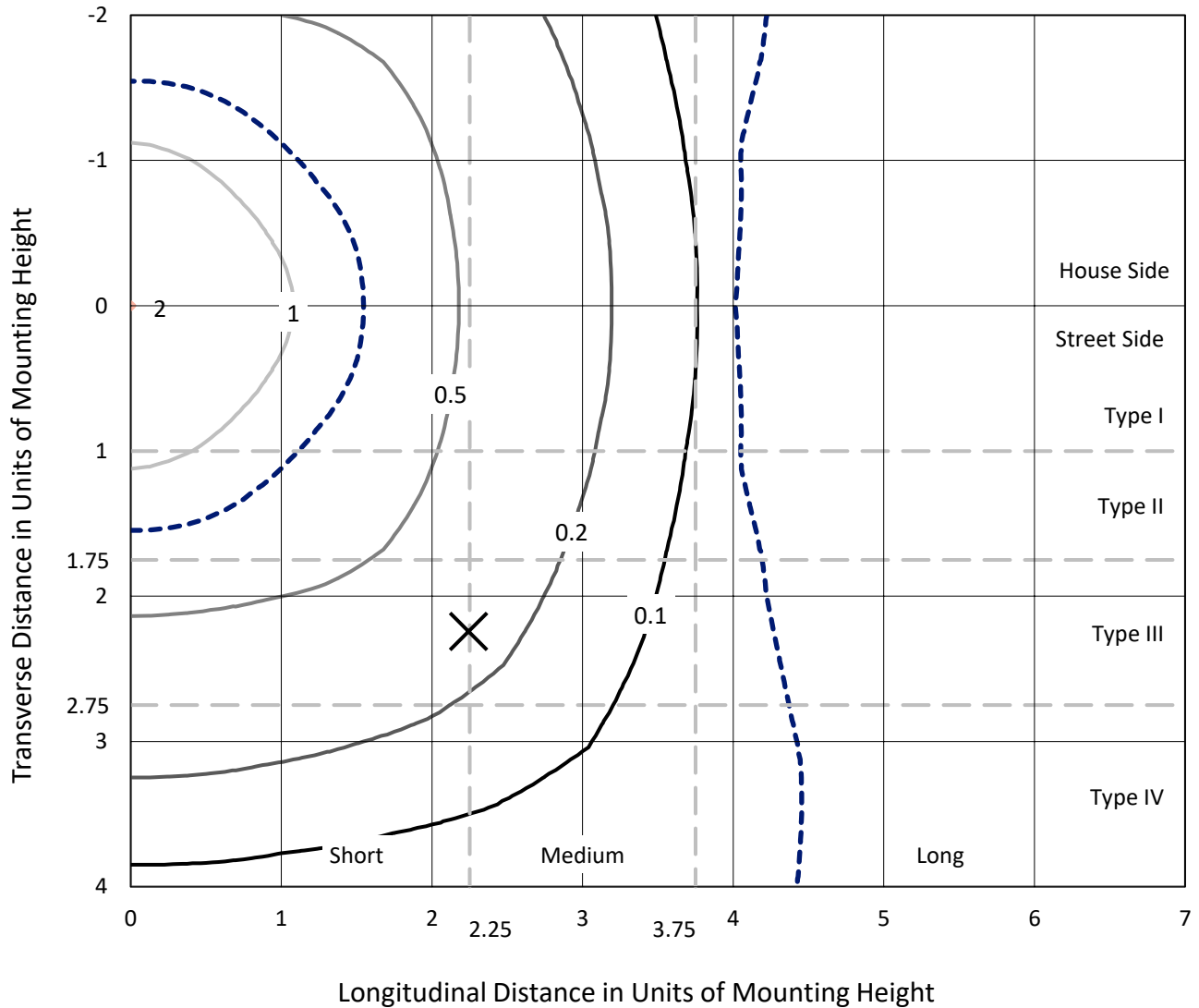
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

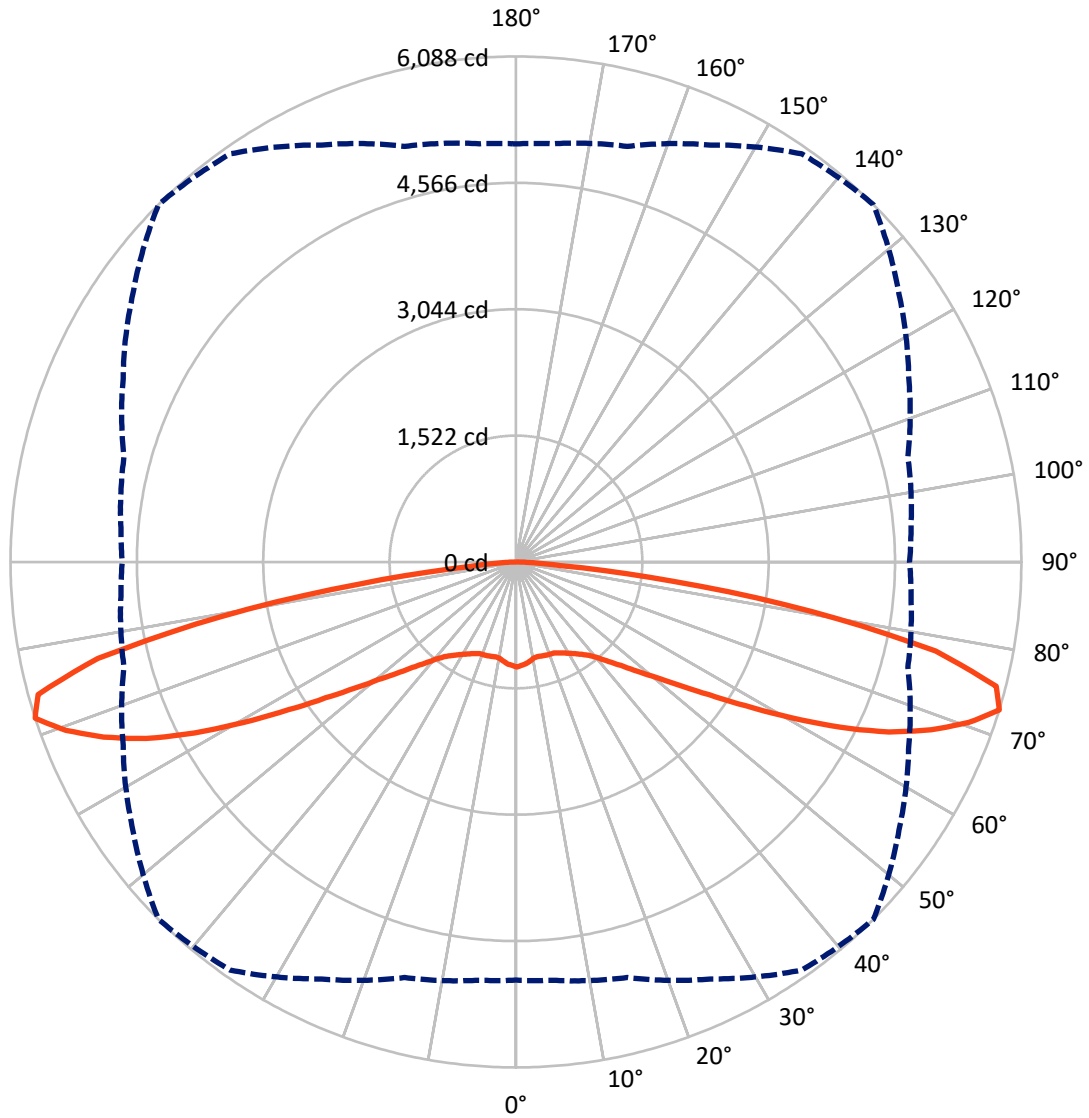
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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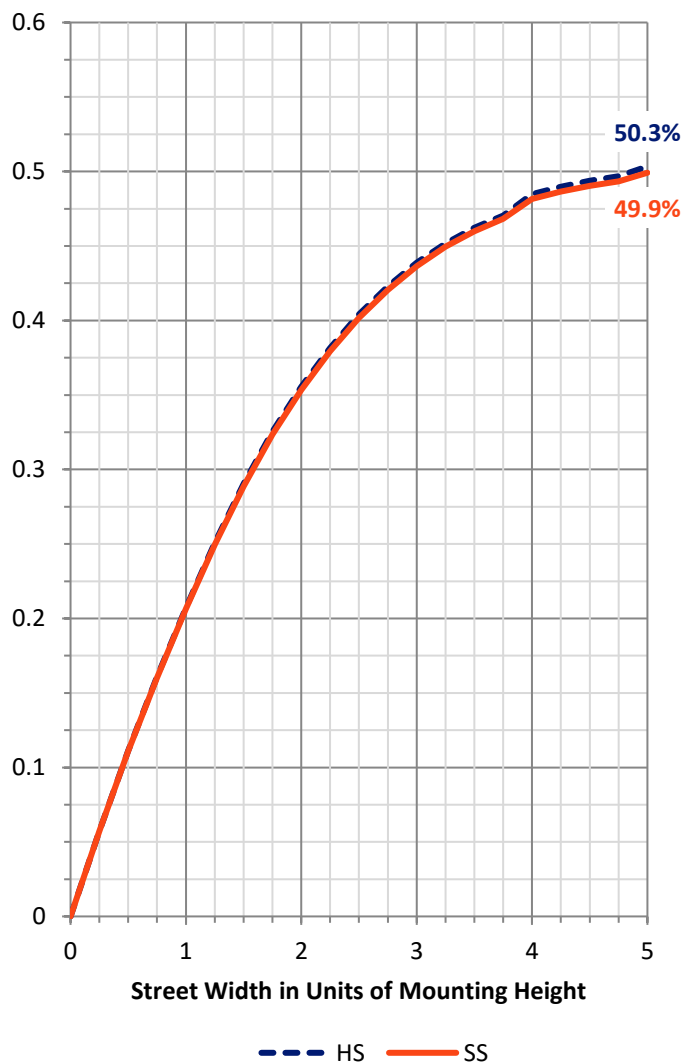
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7672.7	0.0	7672.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7672.7	0.0	7672.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15345.5	0.0	15345.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	0.8
10°-20°	335.8	2.2
20°-30°	561.9	3.7
30°-40°	863.4	5.6
40°-50°	1429.6	9.3
50°-60°	2541.5	16.6
60°-70°	4446.3	29.0
70°-80°	4523.8	29.5
80°-90°	526.8	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°	15345.5	100.0
0°-180°	15345.5	100.0



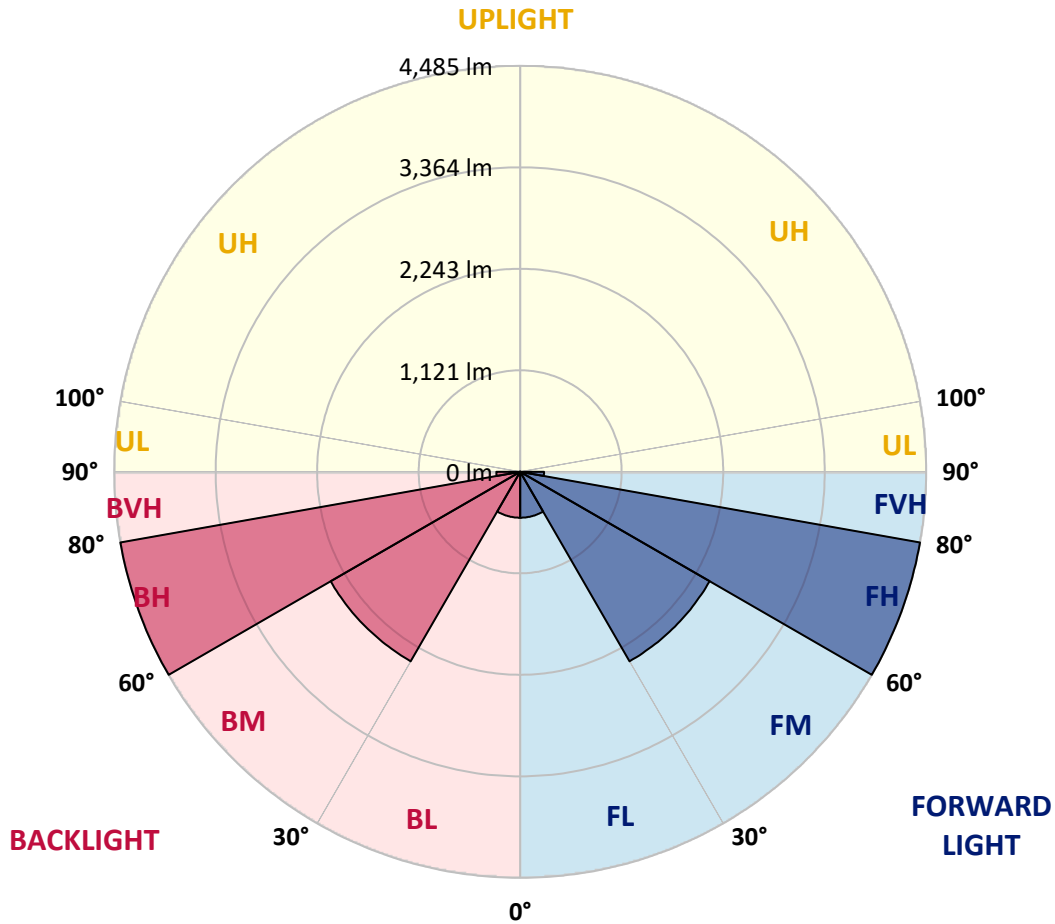
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.0	3.3			
FM (30°-60°)	2417.2	15.8			
FH (60°-80°)	4485.1	29.2			G2/5000
FVH (80°-90°)	263.4	1.7			G3/500
BL (0°-30°)	507.0	3.3	B2/1000		
BM (30°-60°)	2417.2	15.8	B2/2500		
BH (60°-80°)	4485.1	29.2	B4/5000		G2/5000
BVH (80°-90°)	263.4	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°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1253.1	1256.1	1250.3	1250.3	1250.3	1247.3	1250.3	1247.3	1250.3	1253.1	1253.1
5°	1241.4	1241.4	1235.6	1235.6	1235.6	1232.7	1235.6	1235.6	1238.6	1241.4	1241.4
7.5°	1215.2	1215.2	1212.2	1209.3	1206.4	1206.4	1209.3	1209.3	1212.2	1215.2	1215.2
10°	1200.5	1197.6	1191.8	1183.1	1180.1	1177.2	1183.1	1188.8	1197.6	1206.4	1203.5
12.5°	1194.8	1191.8	1180.1	1171.4	1165.5	1168.4	1174.3	1180.1	1194.8	1203.5	1200.5
15°	1200.5	1194.8	1180.1	1165.5	1168.4	1174.3	1180.1	1180.1	1197.6	1206.4	1206.4
17.5°	1200.5	1197.6	1180.1	1168.4	1171.4	1177.2	1183.1	1180.1	1194.8	1209.3	1209.3
20°	1203.5	1203.5	1180.1	1171.4	1174.3	1180.1	1185.9	1183.1	1194.8	1212.2	1212.2
22.5°	1209.3	1206.4	1183.1	1177.2	1183.1	1188.8	1191.8	1188.8	1200.5	1215.2	1218.1
25°	1221.0	1215.2	1194.8	1191.8	1203.5	1212.2	1212.2	1206.4	1212.2	1226.9	1226.9
27.5°	1235.6	1232.7	1209.3	1209.3	1223.9	1241.4	1232.7	1221.0	1226.9	1241.4	1241.4
30°	1262.0	1259.0	1235.6	1235.6	1256.1	1276.4	1256.1	1241.4	1250.3	1264.7	1267.7
32.5°	1299.8	1299.8	1279.4	1273.6	1308.6	1317.4	1308.6	1279.4	1285.2	1305.7	1305.7
35°	1364.1	1358.3	1337.9	1334.9	1370.0	1367.1	1364.1	1337.9	1343.7	1367.1	1367.1
37.5°	1448.9	1445.9	1428.4	1419.6	1437.2	1425.5	1431.3	1419.6	1434.2	1451.7	1454.7
40°	1557.0	1554.0	1539.4	1527.8	1533.6	1516.1	1521.9	1527.8	1542.3	1554.0	1557.0
42.5°	1691.4	1691.4	1676.7	1656.3	1647.5	1638.7	1638.7	1650.4	1665.0	1679.7	1679.7
45°	1857.9	1857.9	1840.3	1819.8	1793.5	1779.0	1784.7	1796.4	1814.0	1831.5	1837.3
47.5°	2053.5	2053.5	2030.1	2009.8	1983.4	1965.9	1965.9	1971.7	1998.1	2012.7	2021.4
50°	2272.6	2263.9	2240.5	2220.0	2205.4	2182.0	2184.9	2182.0	2205.4	2225.8	2231.7
52.5°	2500.4	2497.5	2474.1	2468.2	2477.0	2465.4	2465.4	2436.2	2444.9	2456.5	2453.8
55°	2783.8	2774.9	2754.5	2766.2	2801.3	2818.8	2813.0	2766.2	2740.0	2745.8	2742.9
57.5°	3093.4	3084.6	3078.8	3113.9	3192.8	3265.8	3251.1	3143.1	3093.4	3096.3	3099.2
60°	3408.9	3408.9	3426.4	3514.0	3683.4	3803.2	3759.4	3578.3	3490.8	3473.2	3467.4
62.5°	3733.2	3741.9	3779.9	3925.9	4185.9	4384.6	4273.5	4016.5	3885.0	3850.0	3838.3
65°	4109.9	4118.7	4174.2	4355.3	4700.0	4936.6	4746.8	4504.3	4320.2	4247.2	4235.6
67.5°	4656.2	4662.0	4705.8	4881.1	5205.3	5395.2	5199.5	4983.4	4784.7	4700.0	4694.1
70°	5146.8	5152.7	5190.7	5421.6	5719.5	5786.6	5570.5	5295.9	5088.5	5021.3	5009.6
72.5°	5035.9	5056.4	5181.9	5541.3	5999.9	6087.5	5631.8	5220.0	4886.9	4775.9	4740.9
75°	4223.9	4255.9	4454.6	4995.0	5725.3	5973.5	5269.6	4513.1	4016.5	3803.2	3747.7
77.5°	2465.4	2585.2	2926.9	3619.2	4662.0	5167.4	4340.8	3303.8	2468.2	2117.8	2001.0
80°	674.7	739.0	987.2	1665.0	2924.0	3619.2	2769.1	1516.1	818.0	613.4	569.6
82.5°	213.3	283.3	359.3	479.1	1148.0	1907.4	1028.2	446.9	350.5	289.2	257.1
85°	113.9	122.7	201.6	233.7	344.7	534.6	318.4	233.7	210.4	154.8	146.1
87.5°	58.5	61.3	113.9	113.9	151.9	125.6	137.3	125.6	119.7	75.9	67.2
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)