

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: P236744

Luminaire Tested: **ARCH-L-AF72-110-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236744
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-AF72-110-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 15867 lumens
Efficiency: N/A
Efficacy: 140.4 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

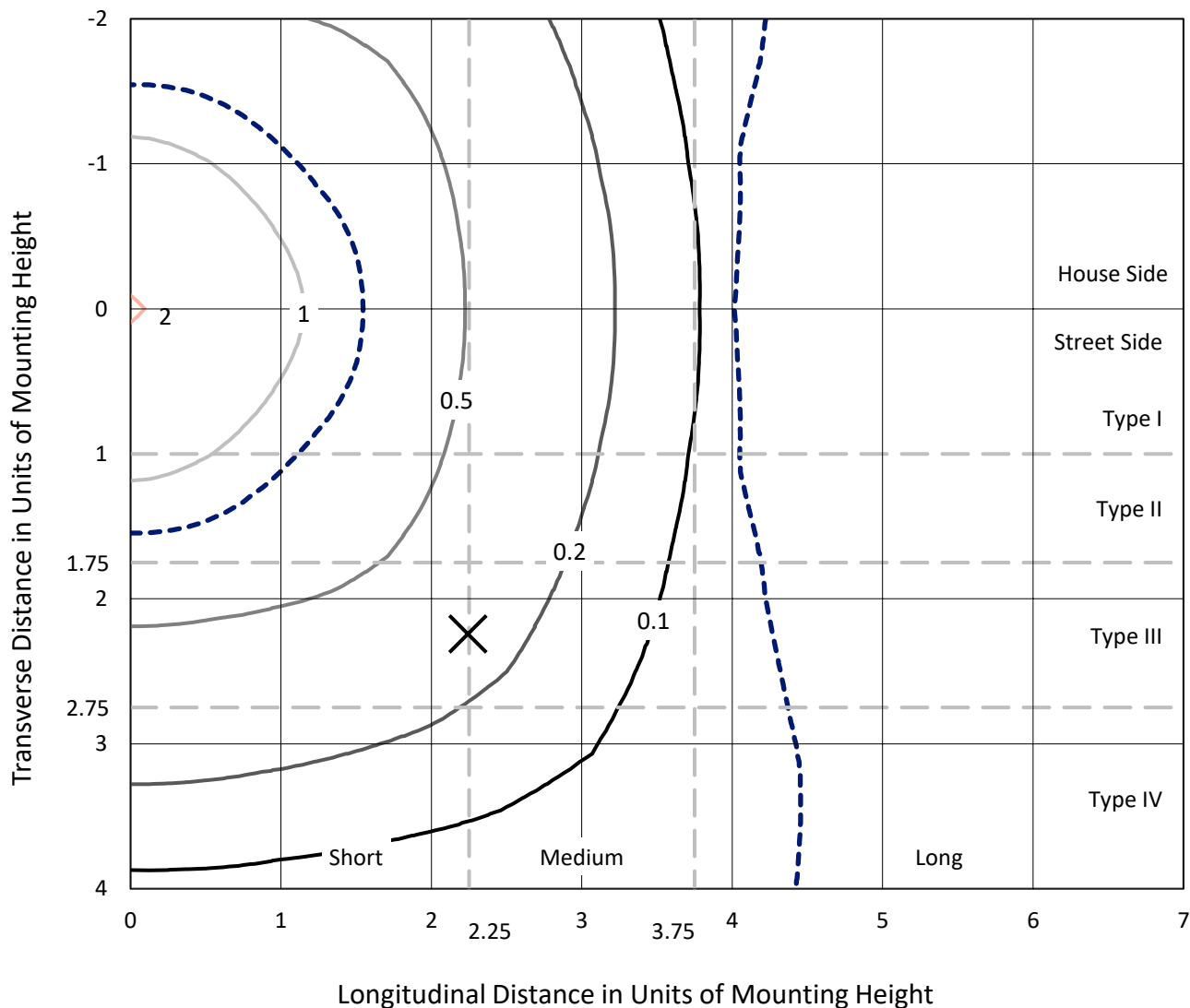
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

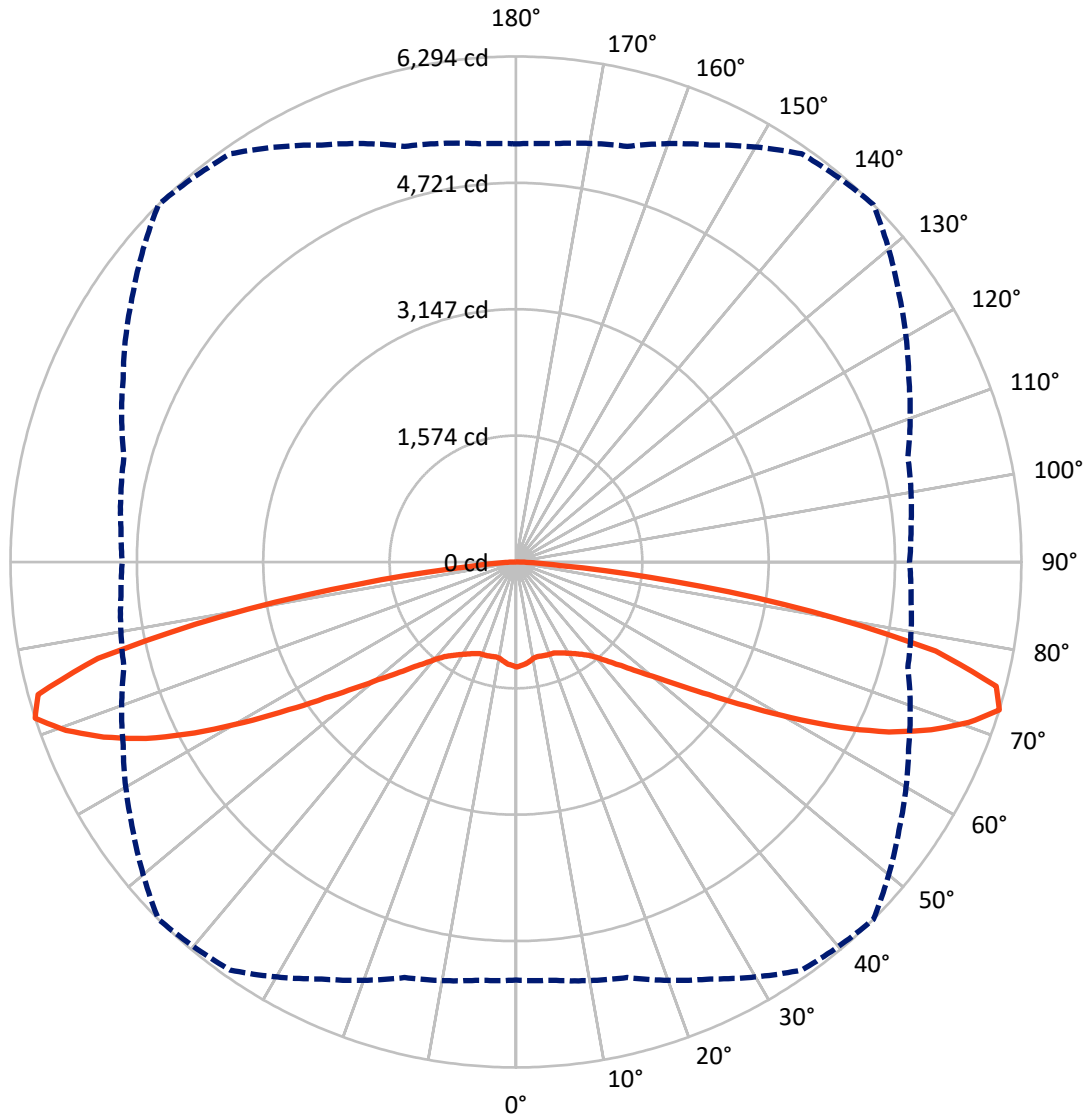
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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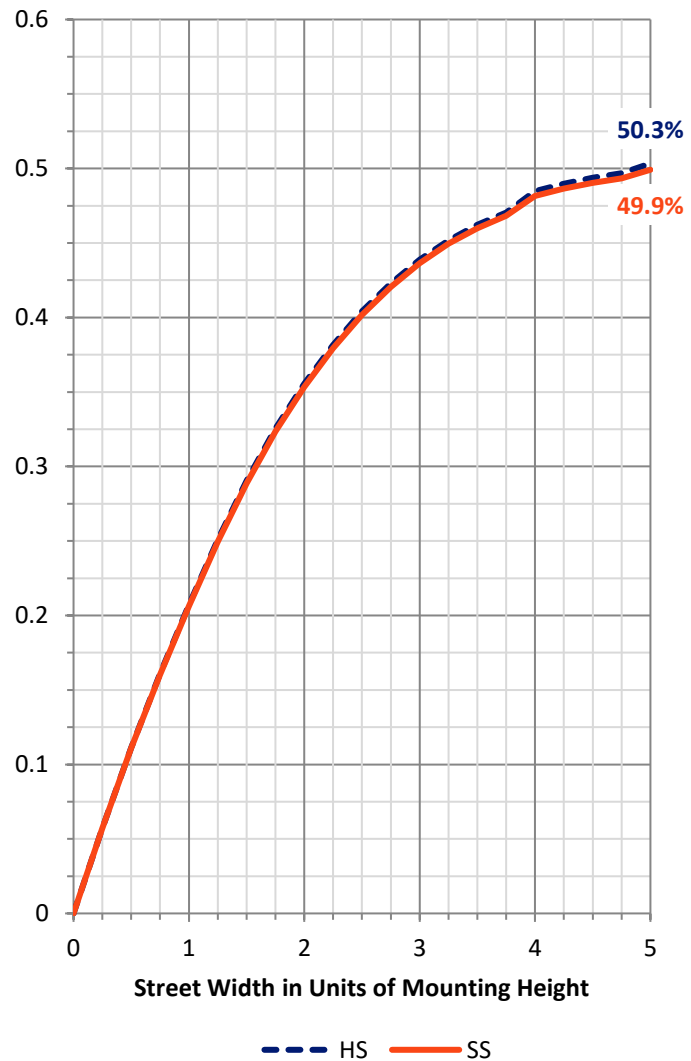
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7933.5	0.0	7933.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7933.5	0.0	7933.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15867.0	0.0	15867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	0.8
10°-20°	347.2	2.2
20°-30°	581.0	3.7
30°-40°	892.7	5.6
40°-50°	1478.2	9.3
50°-60°	2627.9	16.6
60°-70°	4597.4	29.0
70°-80°	4677.5	29.5
80°-90°	544.7	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°	15867.0	100.0
0°-180°	15867.0	100.0



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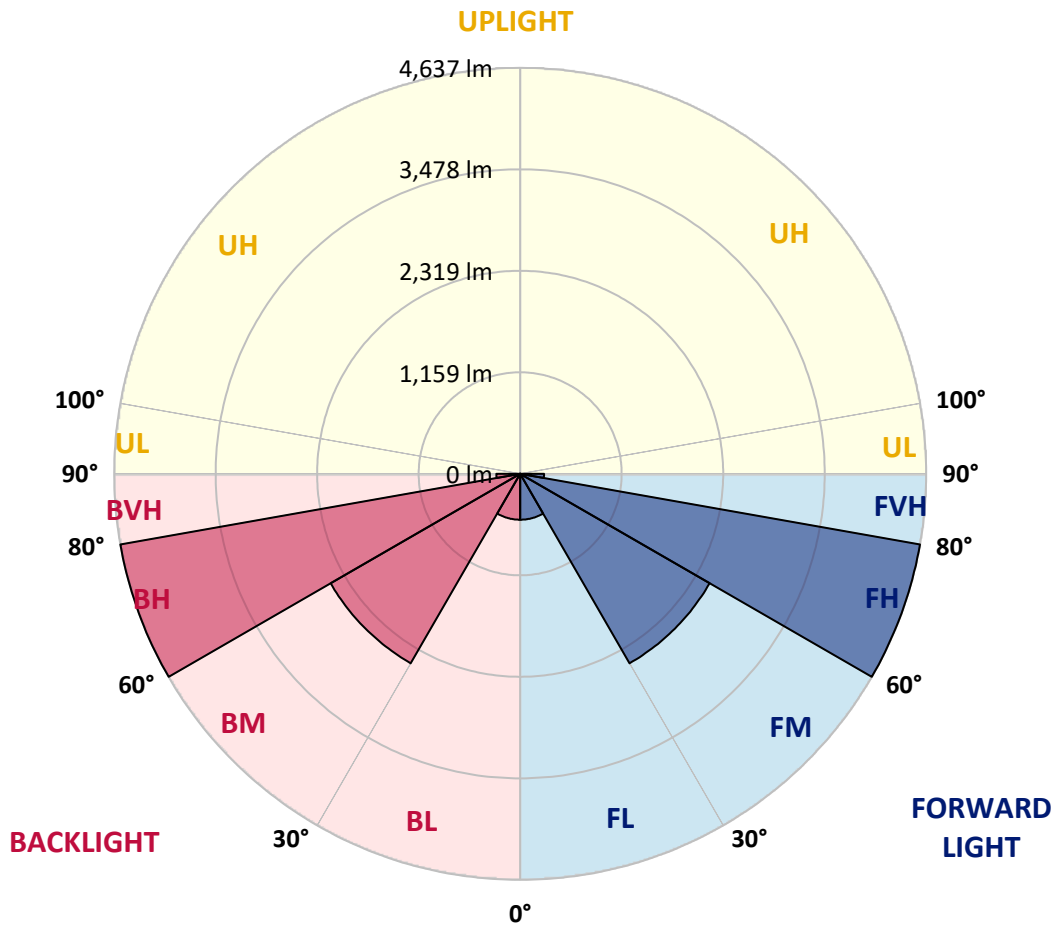
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.3	3.3			
FM (30°-60°)	2499.4	15.8			
FH (60°-80°)	4637.5	29.2			G2/5000
FVH (80°-90°)	272.3	1.7			G3/500
BL (0°-30°)	524.3	3.3	B2/1000		
BM (30°-60°)	2499.4	15.8	B2/2500		
BH (60°-80°)	4637.5	29.2	B4/5000		G2/5000
BVH (80°-90°)	272.3	1.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8
2.5°	1295.7	1298.7	1292.7	1292.7	1292.7	1289.7	1292.7	1289.7	1292.7	1295.7	1295.7
5°	1283.6	1283.6	1277.6	1277.6	1277.6	1274.6	1277.6	1277.6	1280.6	1283.6	1283.6
7.5°	1256.5	1256.5	1253.4	1250.4	1247.4	1247.4	1250.4	1250.4	1253.4	1256.5	1256.5
10°	1241.4	1238.3	1232.3	1223.2	1220.2	1217.2	1223.2	1229.3	1238.3	1247.4	1244.4
12.5°	1235.3	1232.3	1220.2	1211.2	1205.1	1208.1	1214.2	1220.2	1235.3	1244.4	1241.4
15°	1241.4	1235.3	1220.2	1205.1	1208.1	1214.2	1220.2	1220.2	1238.3	1247.4	1247.4
17.5°	1241.4	1238.3	1220.2	1208.1	1211.2	1220.2	1223.2	1220.2	1235.3	1250.4	1250.4
20°	1244.4	1244.4	1220.2	1211.2	1214.2	1223.2	1226.3	1223.2	1235.3	1253.4	1253.4
22.5°	1250.4	1247.4	1223.2	1217.2	1223.2	1229.3	1232.3	1229.3	1241.4	1256.5	1259.5
25°	1262.5	1256.5	1235.3	1232.3	1244.4	1253.4	1253.4	1247.4	1253.4	1268.5	1268.5
27.5°	1277.6	1274.6	1250.4	1250.4	1265.5	1283.6	1274.6	1262.5	1268.5	1283.6	1283.6
30°	1304.8	1301.8	1277.6	1277.6	1298.7	1319.9	1298.7	1283.6	1292.7	1307.8	1310.8
32.5°	1344.1	1344.1	1322.9	1316.9	1353.1	1362.2	1353.1	1322.9	1329.0	1350.1	1350.1
35°	1410.5	1404.5	1383.3	1380.3	1416.5	1413.5	1410.5	1383.3	1389.4	1413.5	1413.5
37.5°	1498.1	1495.1	1476.9	1467.9	1486.0	1473.9	1480.0	1467.9	1483.0	1501.1	1504.1
40°	1609.8	1606.8	1591.7	1579.6	1585.7	1567.6	1573.6	1579.6	1594.7	1606.8	1609.8
42.5°	1748.8	1748.8	1733.7	1712.5	1703.5	1694.4	1694.4	1706.5	1721.6	1736.7	1736.7
45°	1920.9	1920.9	1902.8	1881.7	1854.5	1839.4	1845.4	1857.5	1875.6	1893.8	1899.8
47.5°	2123.3	2123.3	2099.1	2078.0	2050.8	2032.7	2032.7	2038.7	2065.9	2081.0	2090.1
50°	2349.8	2340.8	2316.6	2295.5	2280.4	2256.2	2259.2	2256.2	2280.4	2301.5	2307.5
52.5°	2585.4	2582.4	2558.2	2552.2	2561.3	2549.2	2549.2	2519.0	2528.0	2540.1	2537.1
55°	2878.4	2869.3	2848.2	2860.3	2896.5	2914.6	2908.6	2860.3	2833.1	2839.1	2836.1
57.5°	3198.5	3189.5	3183.4	3219.7	3301.2	3376.7	3361.6	3249.9	3198.5	3201.6	3204.6
60°	3524.7	3524.7	3542.9	3633.5	3808.7	3932.5	3887.2	3699.9	3609.3	3591.2	3585.1
62.5°	3860.0	3869.1	3908.3	4059.3	4328.2	4533.5	4418.8	4153.0	4017.1	3980.8	3968.7
65°	4249.6	4258.7	4316.1	4503.3	4859.7	5104.4	4908.1	4657.4	4467.1	4391.6	4379.5
67.5°	4814.4	4820.5	4865.8	5047.0	5382.3	5578.6	5376.2	5152.7	4947.3	4859.7	4853.7
70°	5321.8	5327.9	5367.2	5605.8	5913.8	5983.3	5759.8	5475.9	5261.4	5192.0	5179.9
72.5°	5207.1	5228.2	5358.1	5729.6	6203.8	6294.4	5823.2	5397.4	5053.0	4938.3	4902.0
75°	4367.4	4400.6	4606.0	5164.8	5919.9	6176.6	5448.7	4666.4	4153.0	3932.5	3875.1
77.5°	2549.2	2673.0	3026.4	3742.2	4820.5	5343.0	4488.2	3416.0	2552.2	2189.8	2068.9
80°	697.7	764.1	1020.9	1721.6	3023.4	3742.2	2863.3	1567.6	845.7	634.3	589.0
82.5°	220.5	293.0	371.5	495.3	1187.0	1972.3	1063.2	462.1	362.4	299.0	265.8
85°	117.8	126.9	208.4	241.6	356.4	552.7	329.2	241.6	217.5	160.1	151.0
87.5°	60.4	63.4	117.8	117.8	157.1	129.9	142.0	129.9	123.8	78.5	69.5
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)