

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: P236758

Luminaire Tested: **ARCH-L-AF72-250-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236758
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-AF72-250-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29116 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

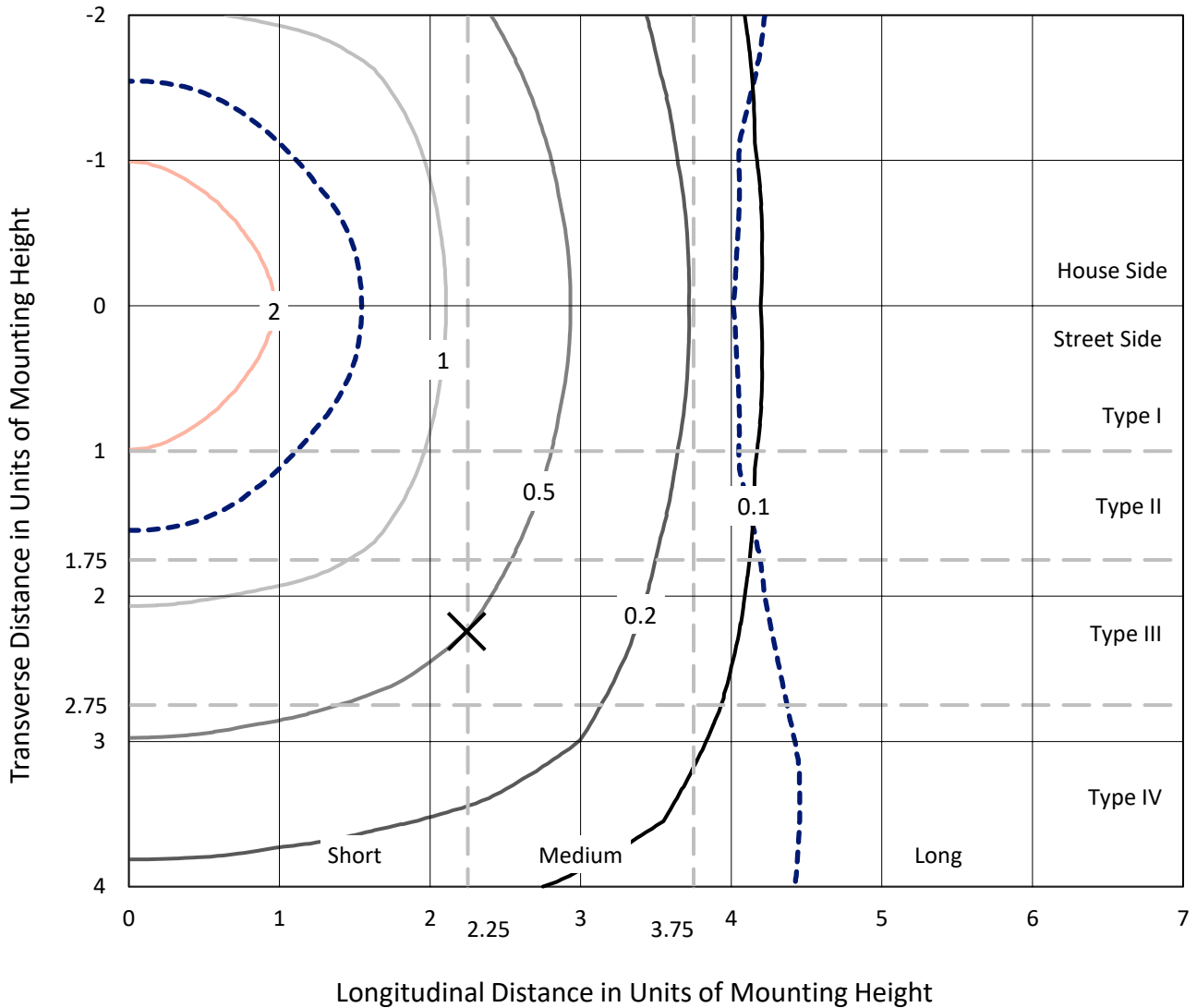
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

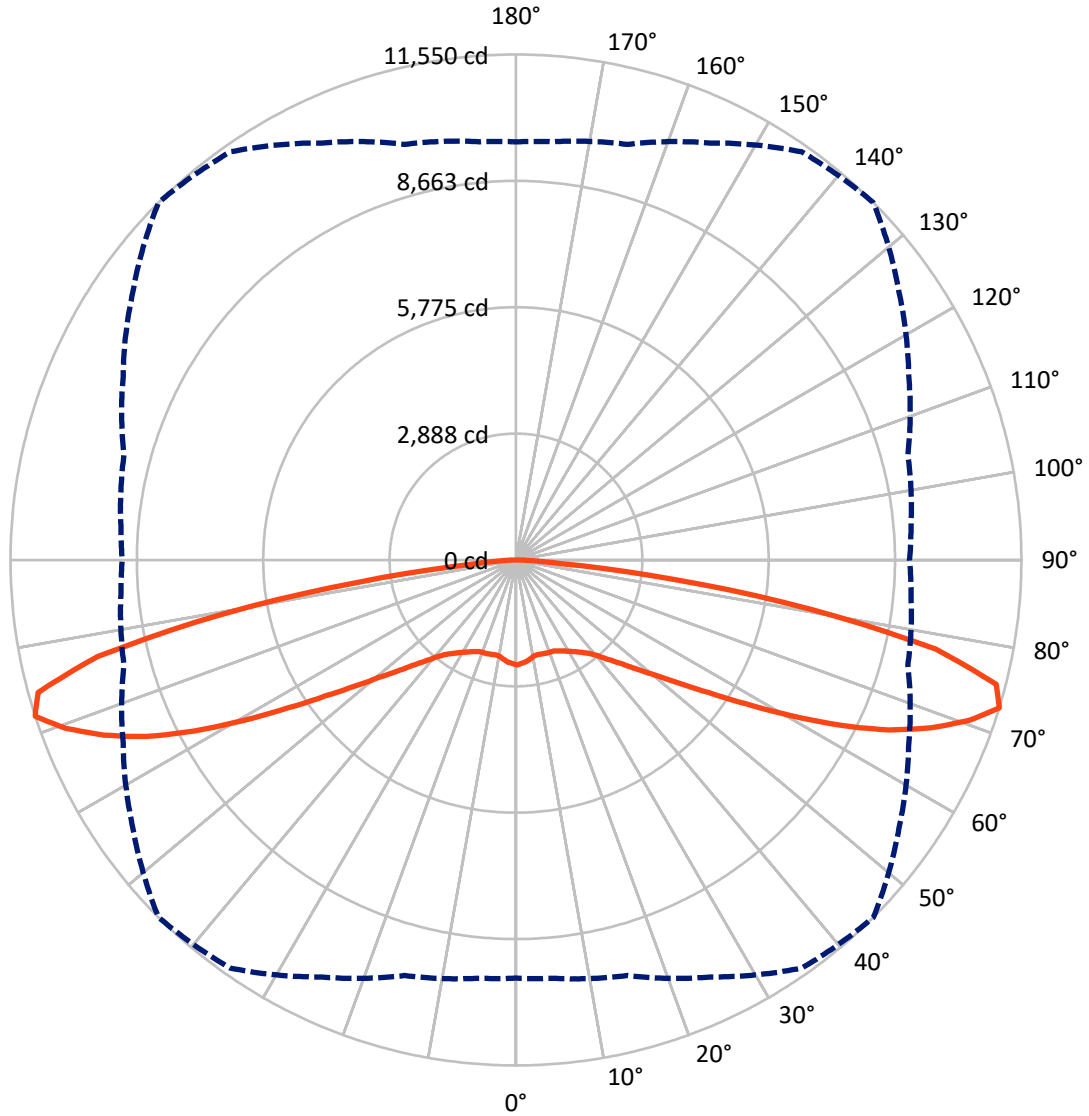
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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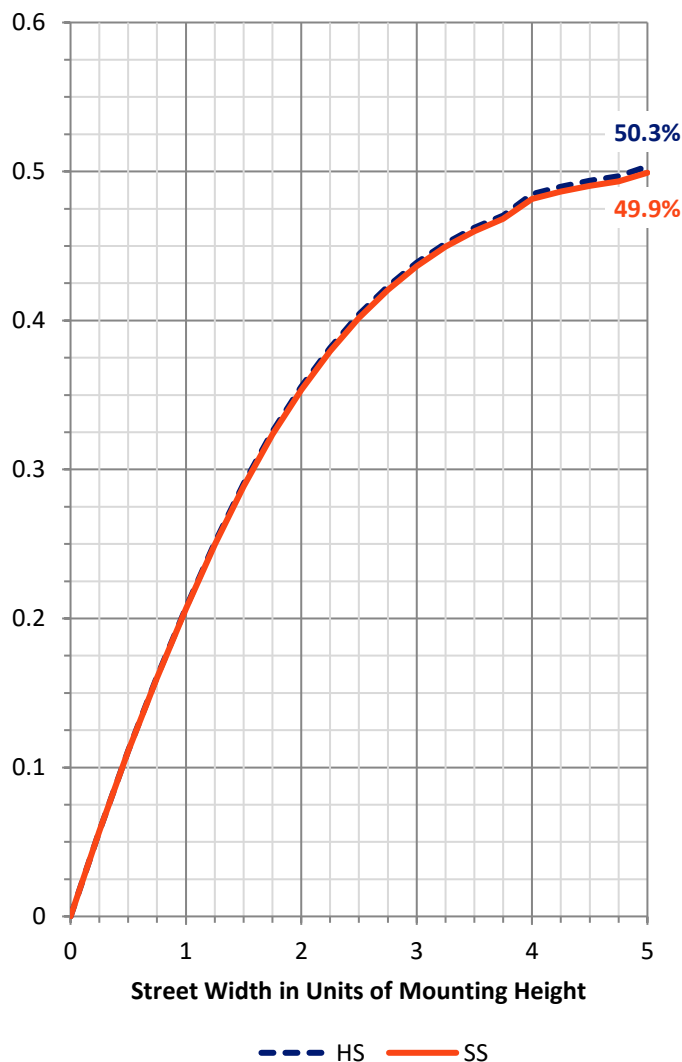
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14558.0	0.0	14558.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14558.0	0.0	14558.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29116.0	0.0	29116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	0.8
10°-20°	637.1	2.2
20°-30°	1066.2	3.7
30°-40°	1638.2	5.6
40°-50°	2712.4	9.3
50°-60°	4822.2	16.6
60°-70°	8436.3	29.0
70°-80°	8583.3	29.5
80°-90°	999.5	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°	29116.0	100.0
0°-180°	29116.0	100.0

Coefficient of Utilization



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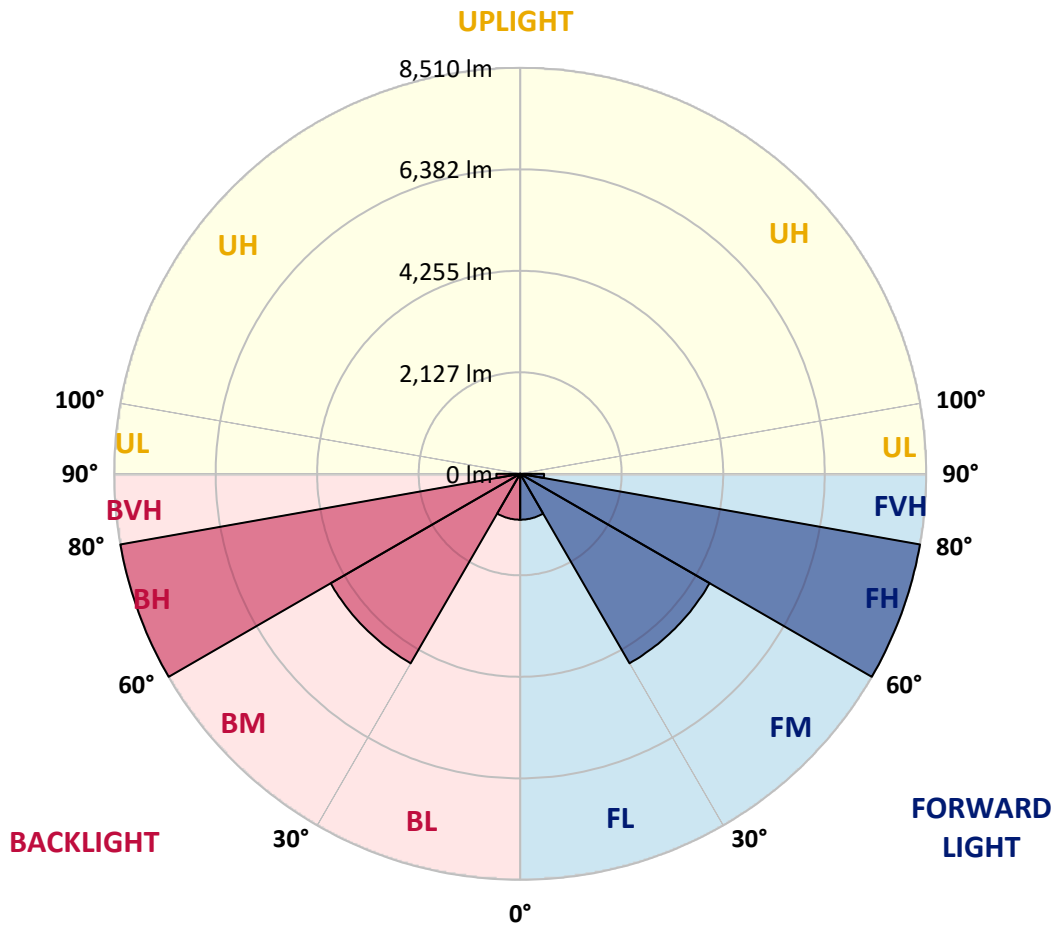
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.1	3.3			
FM (30°-60°)	4586.4	15.8			
FH (60°-80°)	8509.8	29.2			G4/12000
FVH (80°-90°)	499.7	1.7			G3/500
BL (0°-30°)	962.1	3.3	B2/1000		
BM (30°-60°)	4586.4	15.8	B3/5000		
BH (60°-80°)	8509.8	29.2	B5		G4/12000
BVH (80°-90°)	499.7	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8	2399.8
2.5°	2377.7	2383.2	2372.1	2372.1	2372.1	2366.6	2372.1	2366.6	2372.1	2377.7	2377.7
5°	2355.5	2355.5	2344.4	2344.4	2344.4	2338.9	2344.4	2344.4	2350.0	2355.5	2355.5
7.5°	2305.6	2305.6	2300.1	2294.5	2289.0	2289.0	2294.5	2294.5	2300.1	2305.6	2305.6
10°	2277.9	2272.4	2261.3	2244.6	2239.1	2233.6	2244.6	2255.7	2272.4	2289.0	2283.4
12.5°	2266.8	2261.3	2239.1	2222.5	2211.4	2216.9	2228.0	2239.1	2266.8	2283.4	2277.9
15°	2277.9	2266.8	2239.1	2211.4	2216.9	2228.0	2239.1	2239.1	2272.4	2289.0	2289.0
17.5°	2277.9	2272.4	2239.1	2216.9	2222.5	2239.1	2244.6	2239.1	2266.8	2294.5	2294.5
20°	2283.4	2283.4	2239.1	2222.5	2228.0	2244.6	2250.2	2244.6	2266.8	2300.1	2300.1
22.5°	2294.5	2289.0	2244.6	2233.6	2244.6	2255.7	2261.3	2255.7	2277.9	2305.6	2311.2
25°	2316.7	2305.6	2266.8	2261.3	2283.4	2300.1	2300.1	2289.0	2300.1	2327.8	2327.8
27.5°	2344.4	2338.9	2294.5	2294.5	2322.2	2355.5	2338.9	2316.7	2327.8	2355.5	2355.5
30°	2394.3	2388.8	2344.4	2344.4	2383.2	2422.0	2383.2	2355.5	2372.1	2399.8	2405.4
32.5°	2466.3	2466.3	2427.5	2416.5	2483.0	2499.6	2483.0	2427.5	2438.6	2477.4	2477.4
35°	2588.3	2577.2	2538.4	2532.9	2599.4	2593.8	2588.3	2538.4	2549.5	2593.8	2593.8
37.5°	2749.0	2743.5	2710.2	2693.6	2726.8	2704.7	2715.7	2693.6	2721.3	2754.5	2760.1
40°	2954.1	2948.5	2920.8	2898.6	2909.7	2876.5	2887.6	2898.6	2926.4	2948.5	2954.1
42.5°	3209.0	3209.0	3181.3	3142.5	3125.9	3109.3	3109.3	3131.4	3159.1	3186.8	3186.8
45°	3524.9	3524.9	3491.7	3452.9	3403.0	3375.3	3386.4	3408.5	3441.8	3475.0	3486.1
47.5°	3896.3	3896.3	3851.9	3813.1	3763.3	3730.0	3730.0	3741.1	3791.0	3818.7	3835.3
50°	4311.9	4295.3	4251.0	4212.2	4184.5	4140.1	4145.7	4140.1	4184.5	4223.3	4234.4
52.5°	4744.2	4738.7	4694.4	4683.3	4699.9	4677.7	4677.7	4622.3	4638.9	4661.1	4655.6
55°	5281.9	5265.2	5226.4	5248.6	5315.1	5348.4	5337.3	5248.6	5198.7	5209.8	5204.3
57.5°	5869.3	5852.7	5841.6	5908.1	6057.8	6196.3	6168.6	5963.6	5869.3	5874.9	5880.4
60°	6467.9	6467.9	6501.2	6667.4	6988.9	7216.1	7133.0	6789.4	6623.1	6589.8	6578.8
62.5°	7083.1	7099.7	7171.8	7448.9	7942.2	8319.1	8108.4	7620.7	7371.3	7304.8	7282.6
65°	7798.1	7814.7	7920.0	8263.6	8917.6	9366.6	9006.3	8546.3	8197.1	8058.6	8036.4
67.5°	8834.5	8845.6	8928.7	9261.3	9876.5	10236.7	9865.4	9455.2	9078.4	8917.6	8906.5
70°	9765.6	9776.7	9848.7	10286.6	10851.9	10979.4	10569.2	10048.3	9654.8	9527.3	9505.1
72.5°	9555.0	9593.8	9832.1	10513.8	11384.0	11550.2	10685.6	9904.2	9272.3	9061.7	8995.2
75°	8014.2	8075.2	8452.1	9477.4	10863.0	11334.1	9998.4	8562.9	7620.7	7216.1	7110.8
77.5°	4677.7	4905.0	5553.4	6867.0	8845.6	9804.4	8235.9	6268.4	4683.3	4018.2	3796.5
80°	1280.3	1402.2	1873.3	3159.1	5547.9	6867.0	5254.1	2876.5	1551.9	1163.9	1080.8
82.5°	404.6	537.6	681.7	908.9	2178.1	3619.2	1950.9	848.0	665.1	548.7	487.7
85°	216.2	232.8	382.4	443.4	654.0	1014.2	604.1	443.4	399.0	293.7	277.1
87.5°	110.8	116.4	216.2	216.2	288.2	238.3	260.5	238.3	227.2	144.1	127.5
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)