

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: P236718

Luminaire Tested: **ARCH-L-AF72-250-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236718
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-AF72-250-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 28159.4 lumens
Efficiency: N/A
Efficacy: 112.2 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

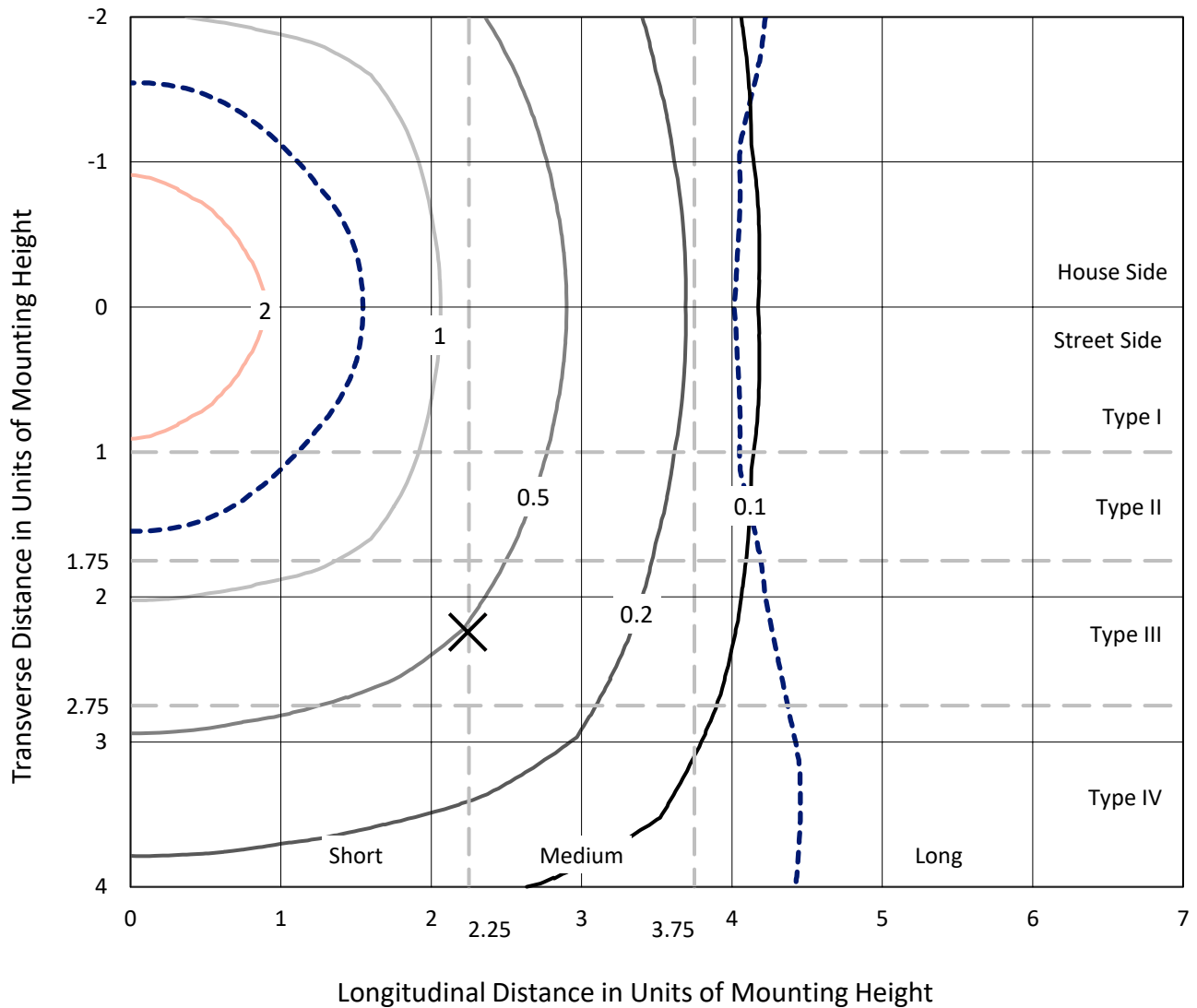
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

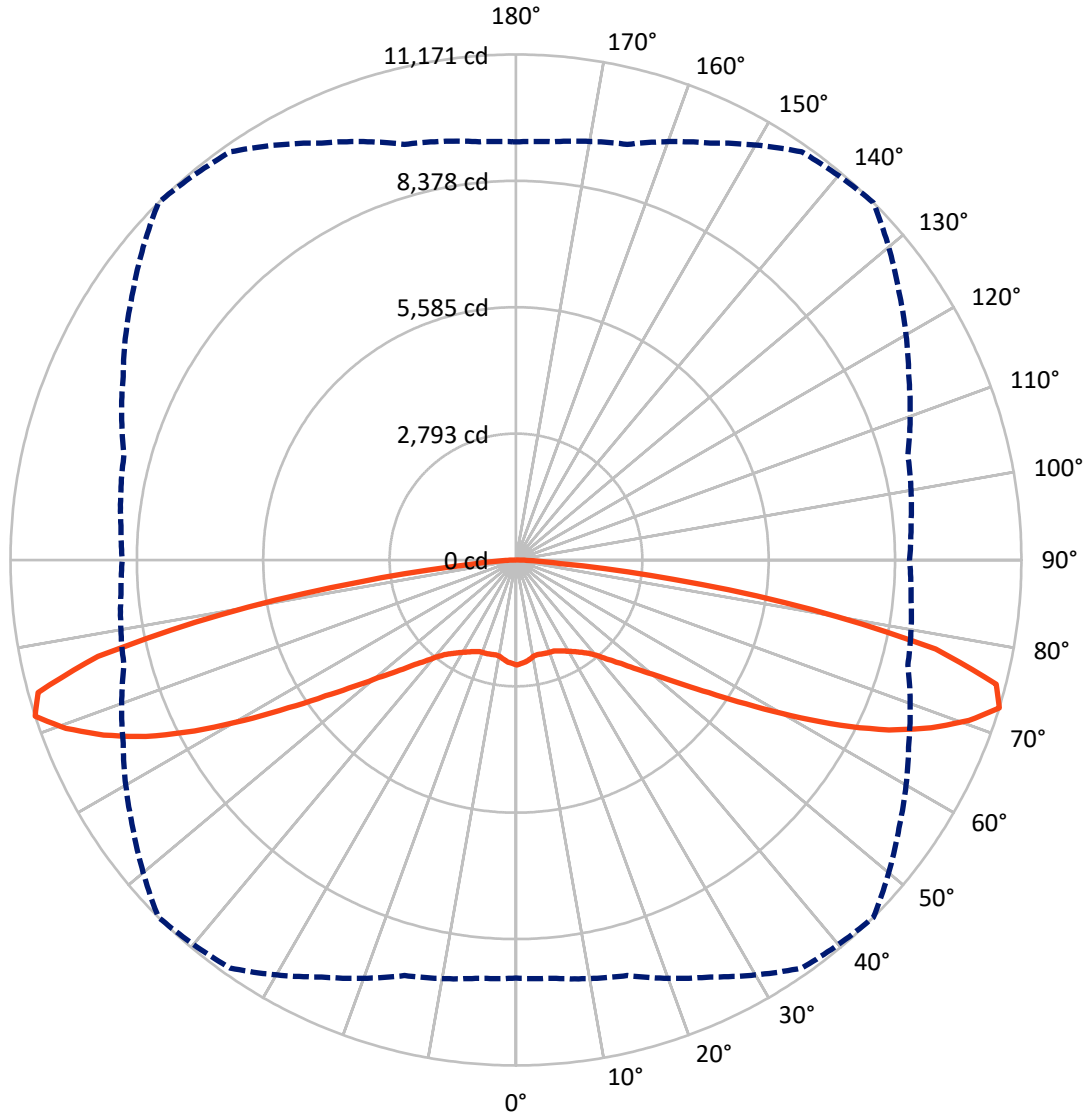
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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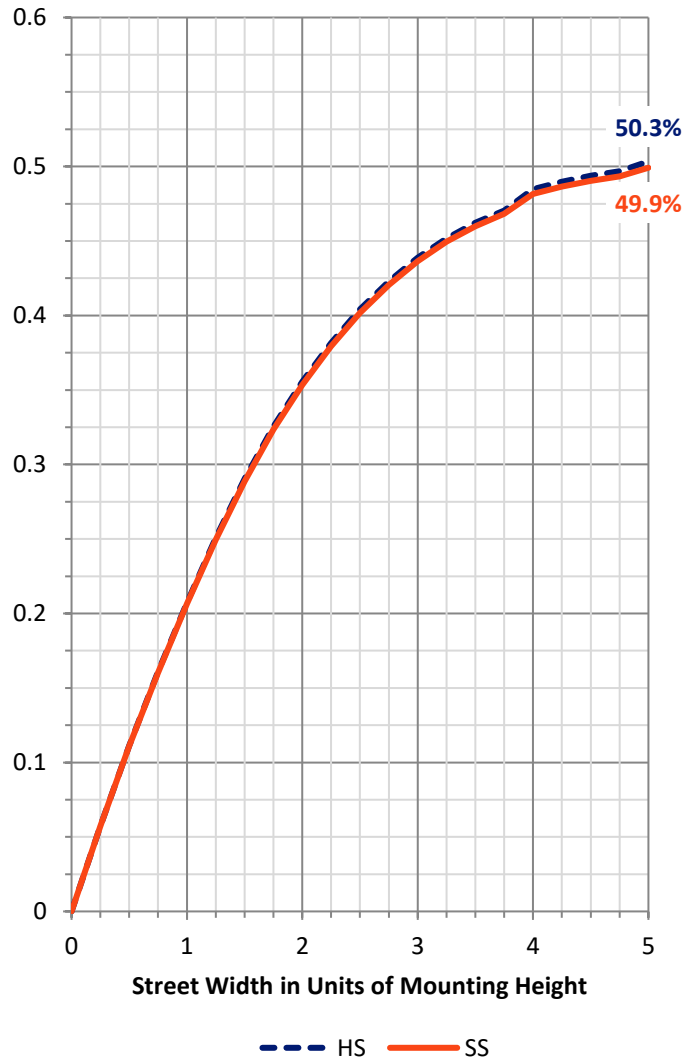
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14079.7	0.0	14079.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14079.7	0.0	14079.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28159.4	0.0	28159.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	0.8
10°-20°	616.2	2.2
20°-30°	1031.1	3.7
30°-40°	1584.4	5.6
40°-50°	2623.3	9.3
50°-60°	4663.8	16.6
60°-70°	8159.2	29.0
70°-80°	8301.3	29.5
80°-90°	966.6	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°	28159.4	100.0
0°-180°	28159.4	100.0

Coefficient of Utilization



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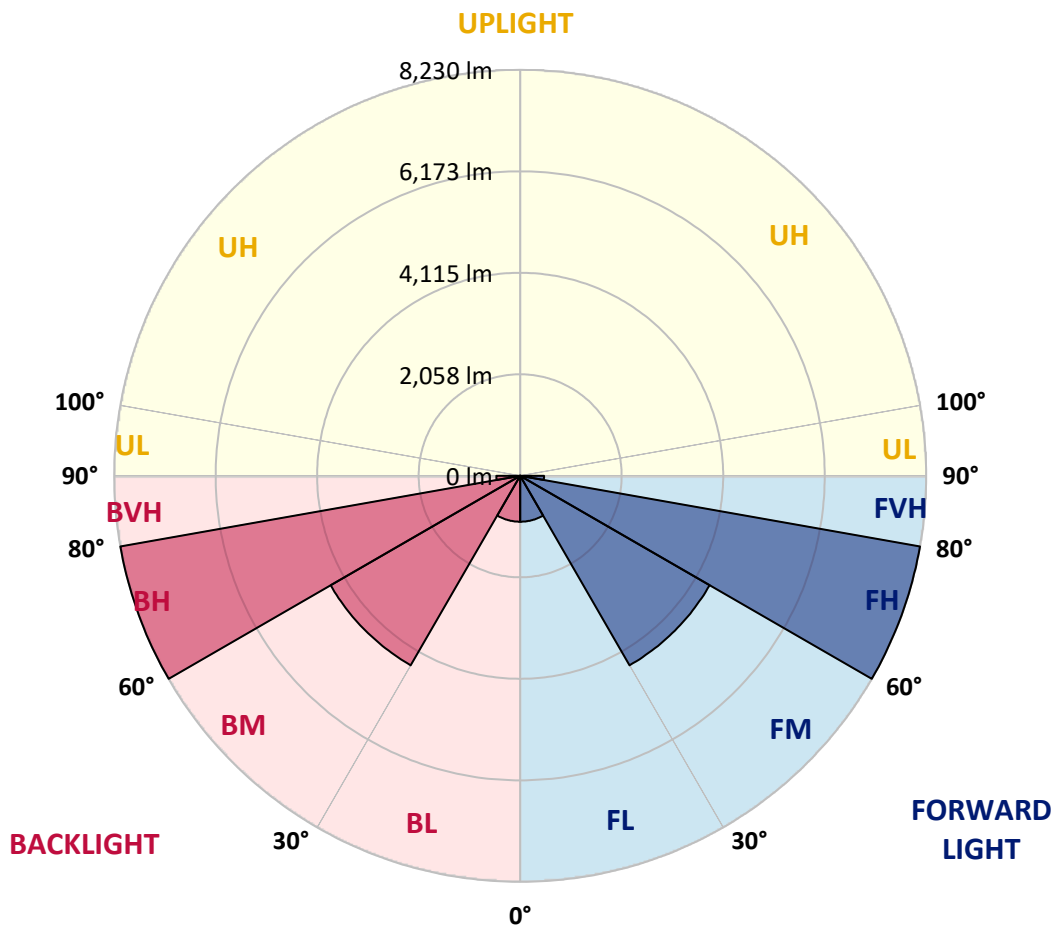
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.5	3.3			
FM (30°-60°)	4435.7	15.8			
FH (60°-80°)	8230.2	29.2			G4/12000
FVH (80°-90°)	483.3	1.7			G3/500
BL (0°-30°)	930.5	3.3	B2/1000		
BM (30°-60°)	4435.7	15.8	B3/5000		
BH (60°-80°)	8230.2	29.2	B5		G4/12000
BVH (80°-90°)	483.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0
2.5°	2299.6	2305.0	2294.2	2294.2	2294.2	2288.9	2294.2	2288.9	2294.2	2299.6	2299.6
5°	2278.0	2278.0	2267.3	2267.3	2267.3	2262.0	2267.3	2267.3	2272.7	2278.0	2278.0
7.5°	2229.9	2229.9	2224.5	2219.2	2213.8	2213.8	2219.2	2219.2	2224.5	2229.9	2229.9
10°	2203.1	2197.8	2187.0	2170.9	2165.5	2160.2	2170.9	2181.6	2197.8	2213.8	2208.4
12.5°	2192.4	2187.0	2165.5	2149.4	2138.8	2144.1	2154.8	2165.5	2192.4	2208.4	2203.1
15°	2203.1	2192.4	2165.5	2138.8	2144.1	2154.8	2165.5	2165.5	2197.8	2213.8	2213.8
17.5°	2203.1	2197.8	2165.5	2144.1	2149.4	2154.8	2170.9	2165.5	2192.4	2219.2	2219.2
20°	2208.4	2208.4	2165.5	2149.4	2154.8	2170.9	2176.2	2170.9	2192.4	2224.5	2224.5
22.5°	2219.2	2213.8	2170.9	2160.2	2170.9	2181.6	2187.0	2181.6	2203.1	2229.9	2235.2
25°	2240.6	2229.9	2192.4	2187.0	2208.4	2224.5	2224.5	2213.8	2224.5	2251.3	2251.3
27.5°	2267.3	2262.0	2219.2	2219.2	2246.0	2278.0	2262.0	2240.6	2251.3	2278.0	2278.0
30°	2315.6	2310.3	2267.3	2267.3	2305.0	2342.4	2305.0	2278.0	2294.2	2321.0	2326.3
32.5°	2385.3	2385.3	2347.8	2337.0	2401.4	2417.5	2401.4	2347.8	2358.5	2396.0	2396.0
35°	2503.2	2492.5	2454.9	2449.6	2513.9	2508.6	2503.2	2454.9	2465.8	2508.6	2508.6
37.5°	2658.8	2653.4	2621.1	2605.1	2637.2	2615.7	2626.5	2605.1	2631.8	2664.1	2669.4
40°	2857.0	2851.6	2824.9	2803.4	2814.1	2782.0	2792.6	2803.4	2830.3	2851.6	2857.0
42.5°	3103.6	3103.6	3076.7	3039.3	3023.2	3007.2	3007.2	3028.5	3055.3	3082.1	3082.1
45°	3409.1	3409.1	3376.9	3339.4	3291.2	3264.3	3275.1	3296.6	3328.7	3361.0	3371.6
47.5°	3768.3	3768.3	3725.4	3687.8	3639.7	3607.4	3607.4	3618.1	3666.4	3693.2	3709.3
50°	4170.3	4154.1	4111.3	4073.8	4047.0	4004.2	4009.5	4004.2	4047.0	4084.5	4095.2
52.5°	4588.4	4583.0	4540.2	4529.5	4545.5	4524.1	4524.1	4470.5	4486.5	4507.9	4502.6
55°	5108.3	5092.2	5054.7	5076.1	5140.4	5172.7	5162.0	5076.1	5027.9	5038.6	5033.2
57.5°	5676.4	5660.4	5649.7	5714.0	5858.7	5992.8	5966.0	5767.6	5676.4	5681.9	5687.3
60°	6255.4	6255.4	6287.6	6448.4	6759.4	6979.1	6898.6	6566.3	6405.6	6373.3	6362.6
62.5°	6850.4	6866.5	6936.3	7204.2	7681.3	8045.8	7842.1	7370.3	7129.1	7064.8	7043.4
65°	7541.8	7557.9	7659.8	7992.1	8624.6	9058.8	8710.3	8265.5	7927.9	7793.8	7772.3
67.5°	8544.2	8555.0	8635.5	8957.0	9552.0	9900.4	9541.3	9144.6	8780.1	8624.6	8613.9
70°	9444.8	9455.6	9525.1	9948.6	10495.3	10618.7	10222.0	9718.2	9337.6	9214.3	9192.8
72.5°	9241.0	9278.7	9509.1	10168.4	11009.9	11170.7	10334.7	9578.8	8967.7	8764.0	8699.7
75°	7751.0	7809.9	8174.3	9166.0	10506.1	10961.8	9669.9	8281.7	7370.3	6979.1	6877.3
77.5°	4524.1	4743.8	5370.9	6641.4	8555.0	9482.3	7965.3	6062.5	4529.5	3886.2	3671.7
80°	1238.2	1356.1	1811.7	3055.3	5365.6	6641.4	5081.5	2782.0	1500.9	1125.7	1045.3
82.5°	391.2	520.0	659.3	879.1	2106.6	3500.2	1886.8	820.1	643.2	530.7	471.7
85°	209.0	225.2	369.9	428.9	632.5	980.9	584.3	428.9	385.9	284.1	268.0
87.5°	107.2	112.5	209.0	209.0	278.7	230.5	252.0	230.5	219.7	139.5	123.3
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)