

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: P236720

Luminaire Tested: **ARCH-L-AF72-270-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236720
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-AF72-270-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29616.9 lumens
Efficiency: N/A
Efficacy: 108.5 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

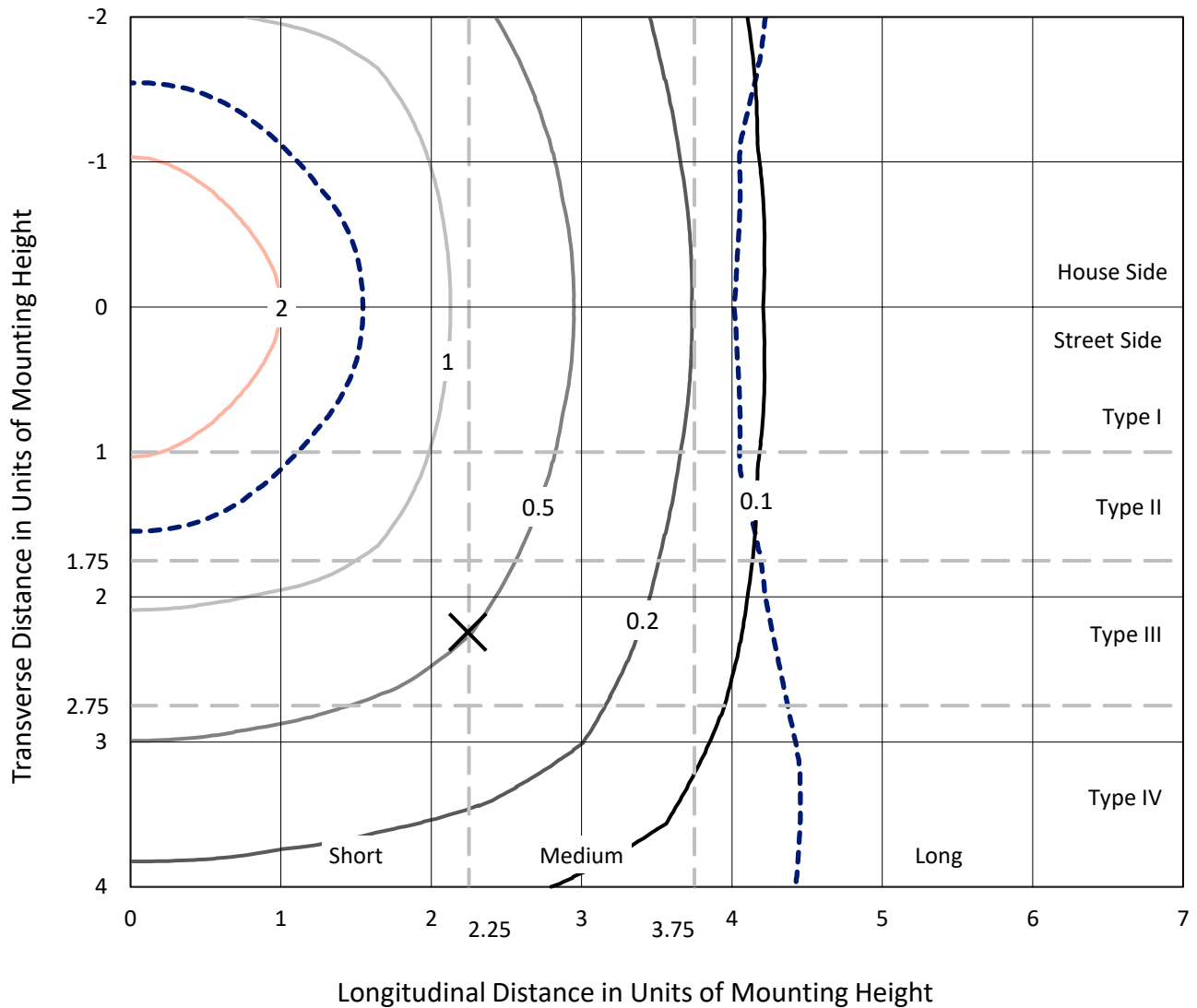
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

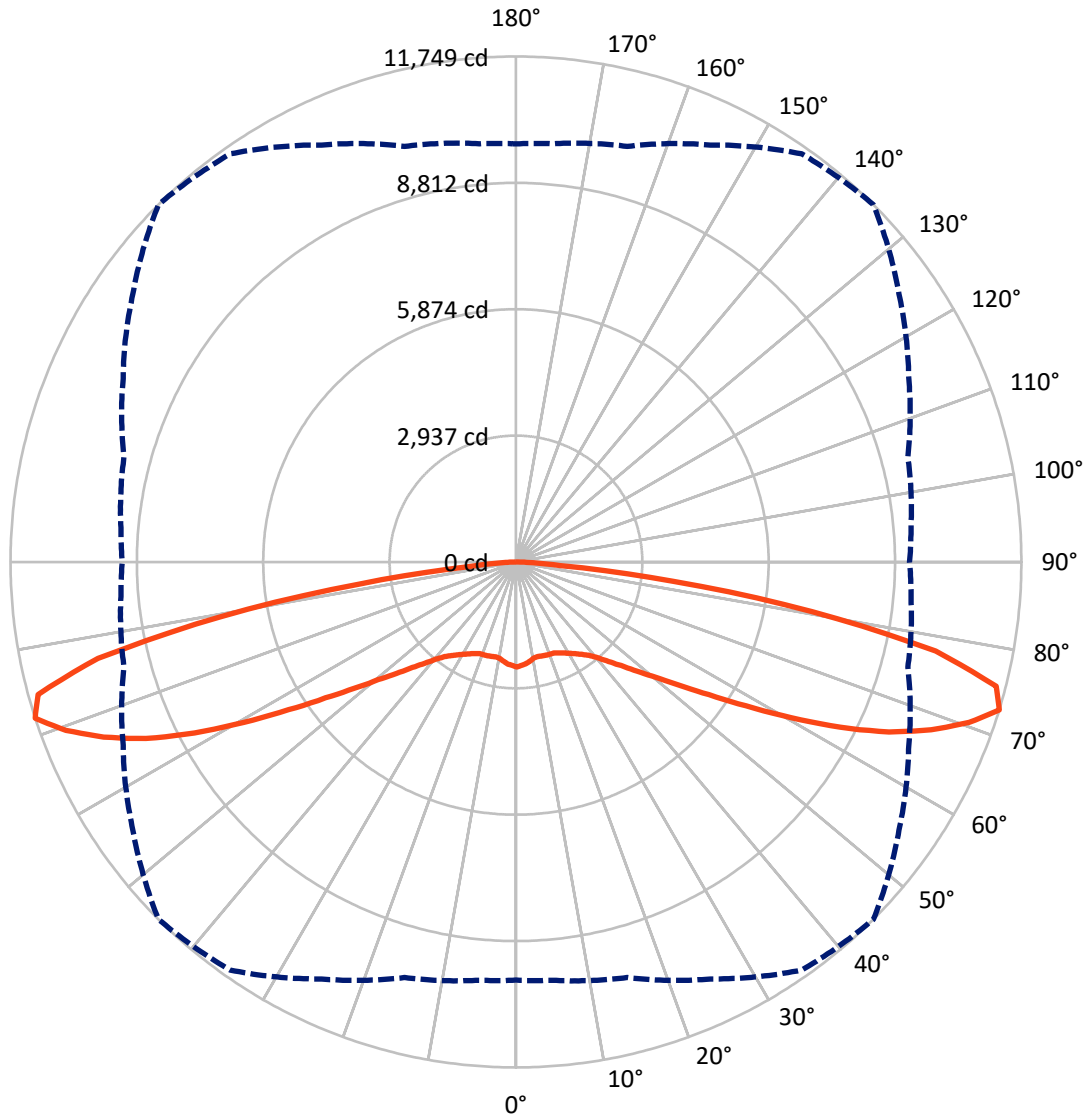
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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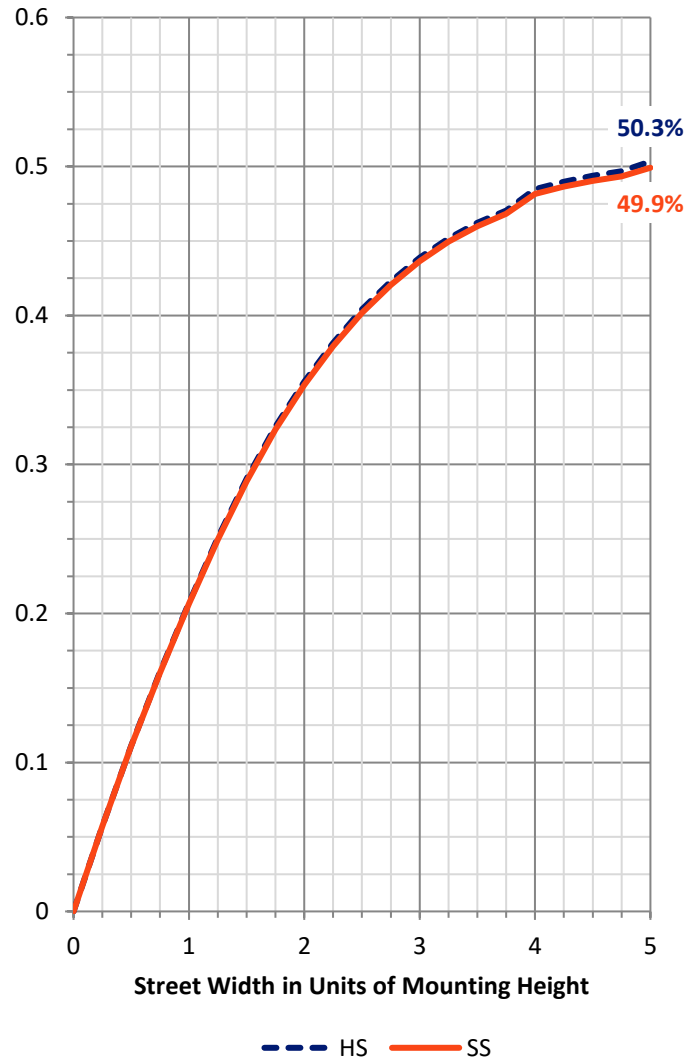
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14808.4	0.0	14808.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14808.4	0.0	14808.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	29616.9	0.0	29616.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	0.8
10°-20°	648.1	2.2
20°-30°	1084.5	3.7
30°-40°	1666.4	5.6
40°-50°	2759.1	9.3
50°-60°	4905.2	16.6
60°-70°	8581.4	29.0
70°-80°	8730.9	29.5
80°-90°	1016.7	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°	29616.9	100.0
0°-180°	29616.9	100.0

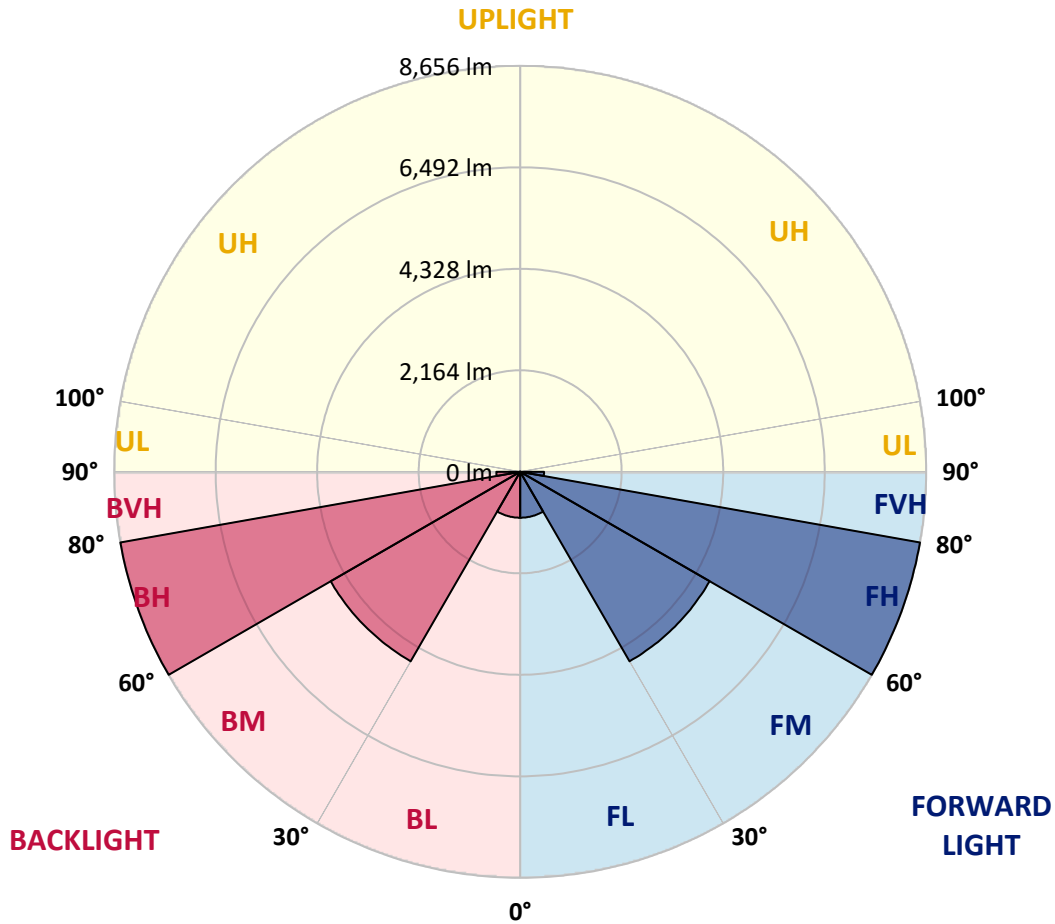


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.6	3.3			
FM (30°-60°)	4665.3	15.8			
FH (60°-80°)	8656.2	29.2			G4/12000
FVH (80°-90°)	508.3	1.7			G4/750
BL (0°-30°)	978.6	3.3	B2/1000		
BM (30°-60°)	4665.3	15.8	B3/5000		
BH (60°-80°)	8656.2	29.2	B5		G4/12000
BVH (80°-90°)	508.3	1.7			G4/750
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°	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1
2.5°	2418.6	2424.3	2412.9	2412.9	2412.9	2407.3	2412.9	2407.3	2412.9	2418.6	2418.6
5°	2396.0	2396.0	2384.7	2384.7	2384.7	2379.1	2384.7	2384.7	2390.4	2396.0	2396.0
7.5°	2345.2	2345.2	2339.7	2334.0	2328.4	2328.4	2334.0	2334.0	2339.7	2345.2	2345.2
10°	2317.1	2311.5	2300.1	2283.3	2277.6	2271.9	2283.3	2294.6	2311.5	2328.4	2322.8
12.5°	2305.8	2300.1	2277.6	2260.7	2249.4	2255.1	2266.4	2277.6	2305.8	2322.8	2317.1
15°	2317.1	2305.8	2277.6	2249.4	2255.1	2266.4	2277.6	2277.6	2311.5	2328.4	2328.4
17.5°	2317.1	2311.5	2277.6	2255.1	2260.7	2277.6	2283.3	2277.6	2305.8	2334.0	2334.0
20°	2322.8	2322.8	2277.6	2260.7	2266.4	2283.3	2288.9	2283.3	2305.8	2339.7	2339.7
22.5°	2334.0	2328.4	2283.3	2271.9	2283.3	2294.6	2300.1	2294.6	2317.1	2345.2	2350.9
25°	2356.5	2345.2	2305.8	2300.1	2322.8	2339.7	2339.7	2328.4	2339.7	2367.8	2367.8
27.5°	2384.7	2379.1	2334.0	2334.0	2362.1	2396.0	2379.1	2356.5	2367.8	2396.0	2396.0
30°	2435.5	2429.8	2384.7	2384.7	2424.3	2463.7	2424.3	2396.0	2412.9	2441.1	2446.8
32.5°	2508.8	2508.8	2469.3	2458.0	2525.6	2542.6	2525.6	2469.3	2480.6	2520.1	2520.1
35°	2632.8	2621.5	2582.1	2576.5	2644.1	2638.4	2632.8	2582.1	2593.4	2638.4	2638.4
37.5°	2796.3	2790.7	2756.8	2739.9	2773.8	2751.1	2762.5	2739.9	2768.1	2802.0	2807.5
40°	3004.8	2999.2	2971.1	2948.5	2959.9	2926.0	2937.2	2948.5	2976.7	2999.2	3004.8
42.5°	3264.2	3264.2	3236.0	3196.6	3179.7	3162.7	3162.7	3185.4	3213.6	3241.7	3241.7
45°	3585.6	3585.6	3551.8	3512.2	3461.6	3433.4	3444.6	3467.3	3501.0	3534.9	3546.1
47.5°	3963.3	3963.3	3918.1	3878.7	3828.0	3794.1	3794.1	3805.4	3856.2	3884.3	3901.3
50°	4386.1	4369.2	4324.2	4284.6	4256.4	4211.4	4217.0	4211.4	4256.4	4296.0	4307.2
52.5°	4825.9	4820.2	4775.1	4763.8	4780.7	4758.2	4758.2	4701.9	4718.8	4741.3	4735.7
55°	5372.8	5355.8	5316.3	5338.9	5406.5	5440.3	5429.1	5338.9	5288.1	5299.4	5293.8
57.5°	5970.4	5953.4	5942.2	6009.8	6162.0	6302.9	6274.8	6066.2	5970.4	5975.9	5981.6
60°	6579.1	6579.1	6613.0	6782.2	7109.2	7340.2	7255.7	6906.2	6737.0	6703.2	6691.9
62.5°	7205.0	7221.9	7295.1	7577.0	8078.8	8462.1	8248.0	7751.8	7498.1	7430.5	7407.9
65°	7932.2	7949.1	8056.2	8405.8	9071.0	9527.7	9161.3	8693.3	8338.1	8197.1	8174.7
67.5°	8986.5	8997.7	9082.2	9420.6	10046.4	10412.9	10035.1	9617.9	9234.6	9071.0	9059.8
70°	9933.7	9944.9	10018.2	10463.5	11038.6	11168.3	10751.1	10221.1	9820.9	9691.2	9668.7
72.5°	9719.3	9758.8	10001.3	10694.8	11579.9	11748.9	10869.4	10074.6	9432.0	9217.6	9150.0
75°	8152.1	8214.1	8597.5	9640.5	11049.8	11529.0	10170.4	8710.2	7751.8	7340.2	7233.2
77.5°	4758.2	4989.4	5648.9	6985.1	8997.7	9973.0	8377.6	6376.3	4763.8	4087.3	3861.8
80°	1302.3	1426.4	1905.6	3213.6	5643.3	6985.1	5344.5	2926.0	1578.6	1184.0	1099.3
82.5°	411.6	546.9	693.5	924.6	2215.6	3681.4	1984.4	862.6	676.6	558.1	496.1
85°	219.8	236.8	389.0	451.0	665.3	1031.7	614.5	451.0	405.9	298.9	281.9
87.5°	112.7	118.4	219.8	219.8	293.2	242.4	265.0	242.4	231.2	146.6	129.7
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)