

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: P236717

Luminaire Tested: **ARCH-L-AF72-240-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236717
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-AF72-240-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27527.9 lumens
Efficiency: N/A
Efficacy: 113.8 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

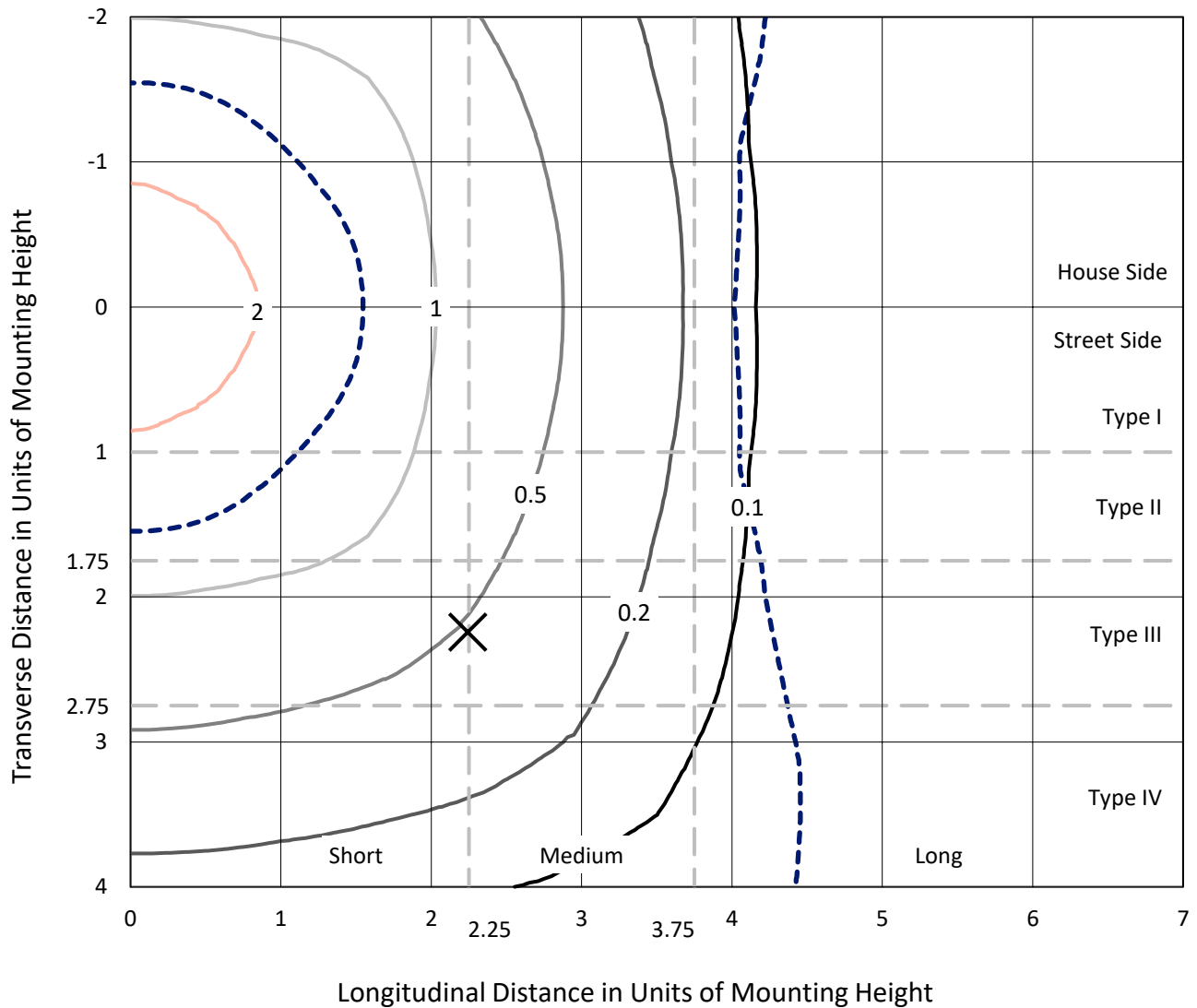
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

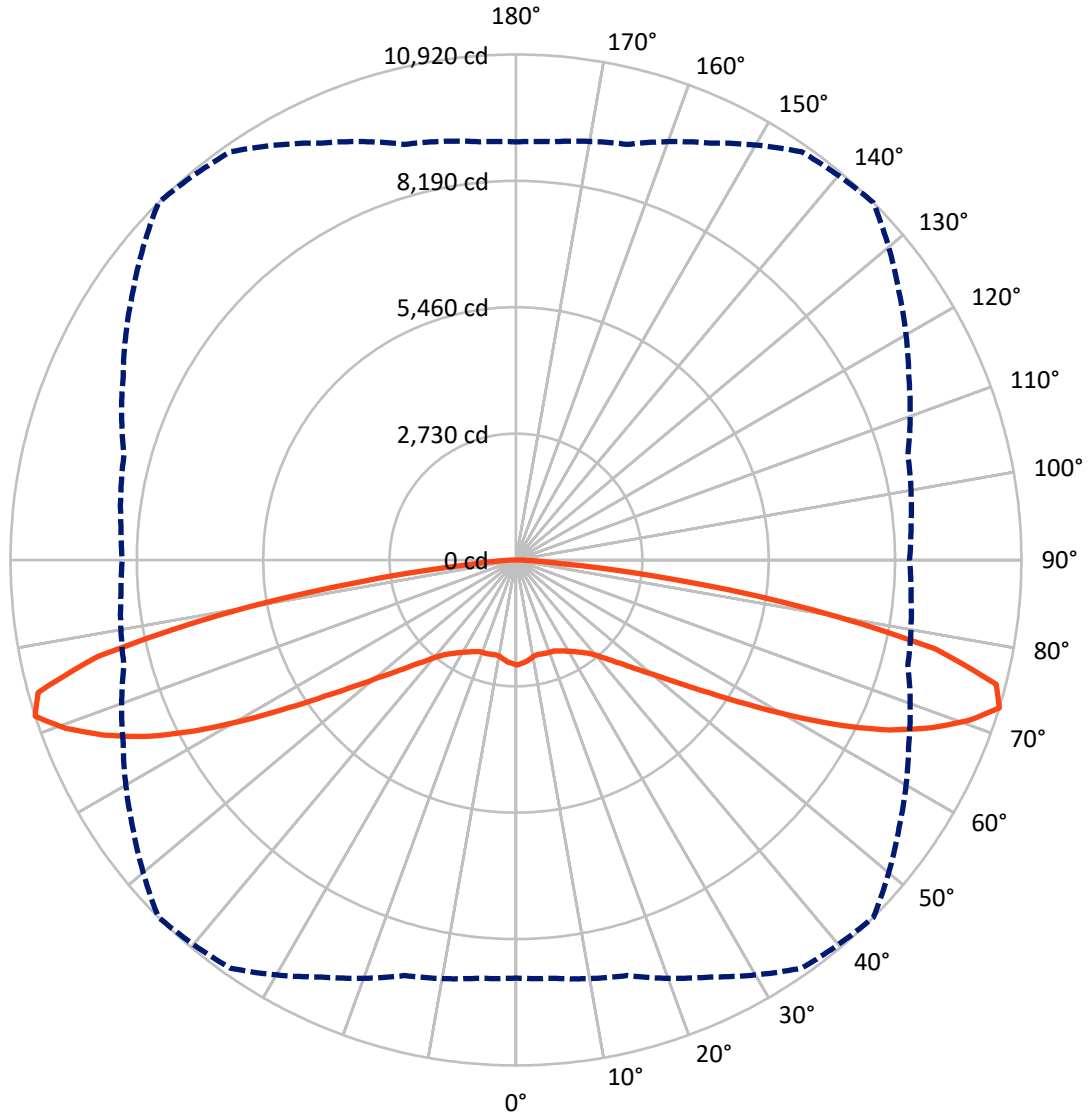
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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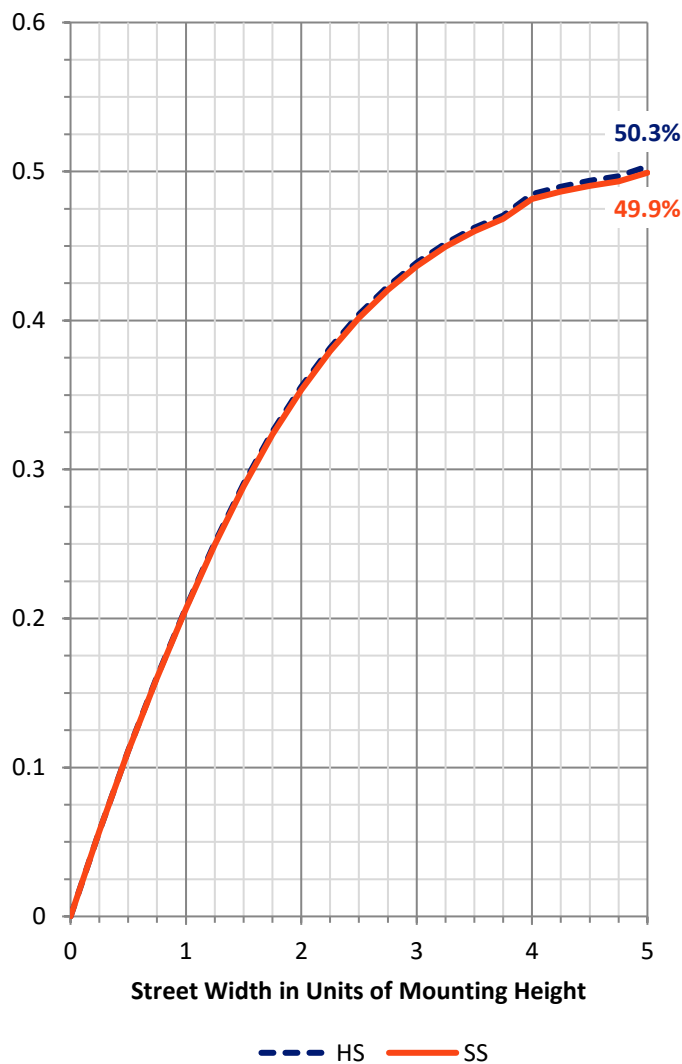
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13763.9	0.0	13763.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13763.9	0.0	13763.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	27527.9	0.0	27527.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	0.8
10°-20°	602.4	2.2
20°-30°	1008.0	3.7
30°-40°	1548.8	5.6
40°-50°	2564.5	9.3
50°-60°	4559.2	16.6
60°-70°	7976.2	29.0
70°-80°	8115.1	29.5
80°-90°	945.0	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°	27527.9	100.0
0°-180°	27527.9	100.0

Coefficient of Utilization

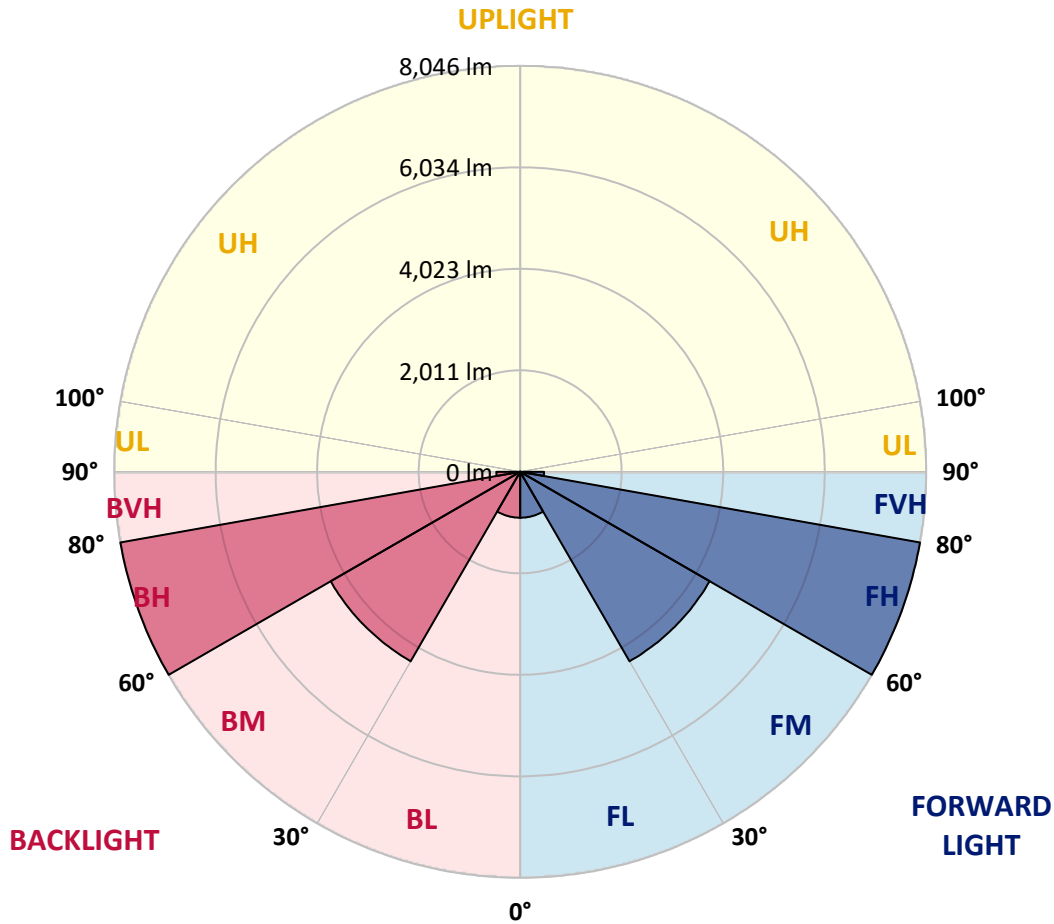


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.6	3.3			
FM (30°-60°)	4336.2	15.8			
FH (60°-80°)	8045.6	29.2			G4/12000
FVH (80°-90°)	472.5	1.7			G3/500
BL (0°-30°)	909.6	3.3	B2/1000		
BM (30°-60°)	4336.2	15.8	B3/5000		
BH (60°-80°)	8045.6	29.2	B5		G4/12000
BVH (80°-90°)	472.5	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°	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0
2.5°	2248.0	2253.3	2242.8	2242.8	2242.8	2237.5	2242.8	2237.5	2242.8	2248.0	2248.0
5°	2227.0	2227.0	2216.6	2216.6	2216.6	2211.3	2216.6	2216.6	2221.8	2227.0	2227.0
7.5°	2179.8	2179.8	2174.6	2169.4	2164.1	2164.1	2169.4	2169.4	2174.6	2179.8	2179.8
10°	2153.6	2148.4	2137.9	2122.3	2117.0	2111.8	2122.3	2132.7	2148.4	2164.1	2158.9
12.5°	2143.2	2137.9	2117.0	2101.3	2090.7	2096.0	2106.5	2117.0	2143.2	2158.9	2153.6
15°	2153.6	2143.2	2117.0	2090.7	2096.0	2106.5	2117.0	2117.0	2148.4	2164.1	2164.1
17.5°	2153.6	2148.4	2117.0	2096.0	2101.3	2117.0	2122.3	2117.0	2143.2	2169.4	2169.4
20°	2158.9	2158.9	2117.0	2101.3	2106.5	2122.3	2127.5	2122.3	2143.2	2174.6	2174.6
22.5°	2169.4	2164.1	2122.3	2111.8	2122.3	2132.7	2137.9	2132.7	2153.6	2179.8	2185.0
25°	2190.3	2179.8	2143.2	2137.9	2158.9	2174.6	2174.6	2164.1	2174.6	2200.8	2200.8
27.5°	2216.6	2211.3	2169.4	2169.4	2195.6	2227.0	2211.3	2190.3	2200.8	2227.0	2227.0
30°	2263.8	2258.5	2216.6	2216.6	2253.3	2289.8	2253.3	2227.0	2242.8	2269.0	2274.1
32.5°	2331.8	2331.8	2295.1	2284.6	2347.6	2363.3	2347.6	2295.1	2305.6	2342.3	2342.3
35°	2447.1	2436.6	2400.0	2394.8	2457.6	2452.4	2447.1	2400.0	2410.4	2452.4	2452.4
37.5°	2599.1	2593.9	2562.3	2546.7	2578.1	2557.1	2567.6	2546.7	2572.8	2604.3	2609.5
40°	2793.0	2787.8	2761.5	2740.5	2751.0	2719.6	2730.1	2740.5	2766.8	2787.8	2793.0
42.5°	3034.0	3034.0	3007.8	2971.1	2955.4	2939.6	2939.6	2960.6	2986.8	3013.1	3013.1
45°	3332.6	3332.6	3301.3	3264.5	3217.3	3191.1	3201.7	3222.6	3254.1	3285.5	3296.1
47.5°	3683.7	3683.7	3641.8	3605.1	3558.0	3526.6	3526.6	3537.0	3584.1	3610.4	3626.1
50°	4076.8	4061.0	4019.1	3982.4	3956.3	3914.3	3919.5	3914.3	3956.3	3992.9	4003.4
52.5°	4485.4	4480.2	4438.3	4427.8	4443.6	4422.6	4422.6	4370.2	4385.8	4406.9	4401.6
55°	4993.8	4978.1	4941.4	4962.3	5025.2	5056.6	5046.1	4962.3	4915.1	4925.6	4920.4
57.5°	5549.2	5533.4	5522.9	5585.9	5727.4	5858.4	5832.2	5638.4	5549.2	5554.4	5559.6
60°	6115.1	6115.1	6146.6	6303.7	6607.7	6822.4	6743.9	6419.1	6261.8	6230.4	6219.9
62.5°	6696.7	6712.5	6780.6	7042.7	7509.0	7865.2	7666.1	7205.1	6969.2	6906.4	6885.4
65°	7372.7	7388.4	7488.0	7812.9	8431.2	8855.7	8515.0	8080.2	7750.0	7618.9	7598.1
67.5°	8352.7	8363.1	8441.7	8756.1	9337.8	9678.3	9327.3	8939.5	8583.2	8431.2	8420.7
70°	9233.0	9243.5	9311.5	9725.5	10260.0	10380.5	9992.8	9500.2	9128.2	9007.7	8986.7
72.5°	9033.8	9070.4	9295.8	9940.3	10763.0	10920.3	10102.7	9363.9	8766.6	8567.4	8504.6
75°	7577.1	7634.7	7991.0	8960.5	10270.5	10715.9	9453.0	8095.9	7205.1	6822.4	6722.9
77.5°	4422.6	4637.4	5250.6	6492.4	8363.1	9269.7	7786.7	5926.4	4427.8	3799.1	3589.3
80°	1210.5	1325.8	1771.1	2986.8	5245.3	6492.4	4967.6	2719.6	1467.3	1100.5	1021.8
82.5°	382.5	508.3	644.5	859.4	2059.3	3421.8	1844.6	801.8	628.8	518.8	461.1
85°	204.4	220.0	361.5	419.2	618.3	959.0	571.2	419.2	377.3	277.7	262.0
87.5°	104.8	110.1	204.4	204.4	272.5	225.3	246.3	225.3	214.8	136.2	120.5
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)