

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: P236757

Luminaire Tested: **ARCH-L-AF72-240-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236757
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-AF72-240-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 28462 lumens
Efficiency: N/A
Efficacy: 117.6 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

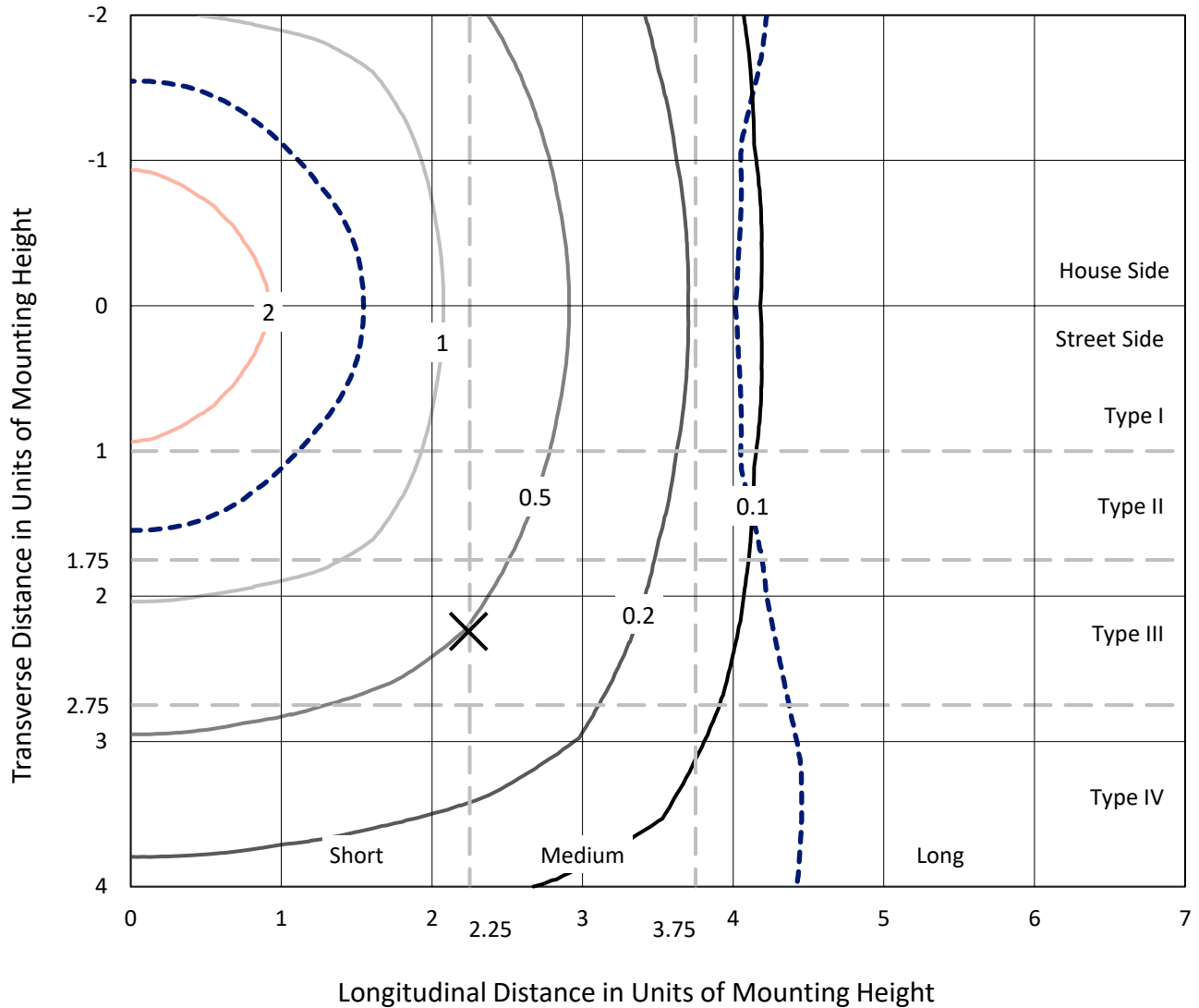
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

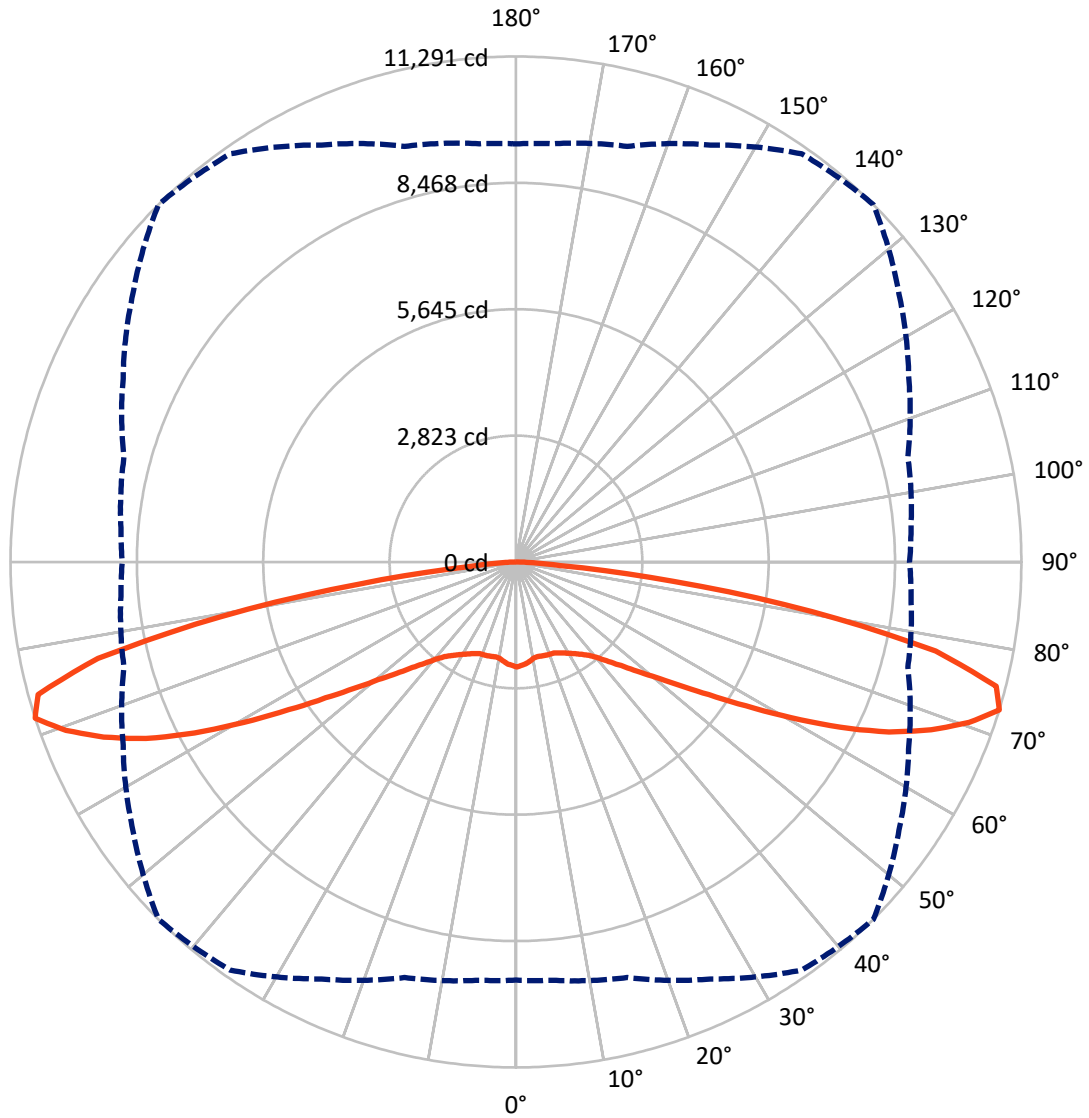
✕ Max cd
 - - - 1/2 Max cd



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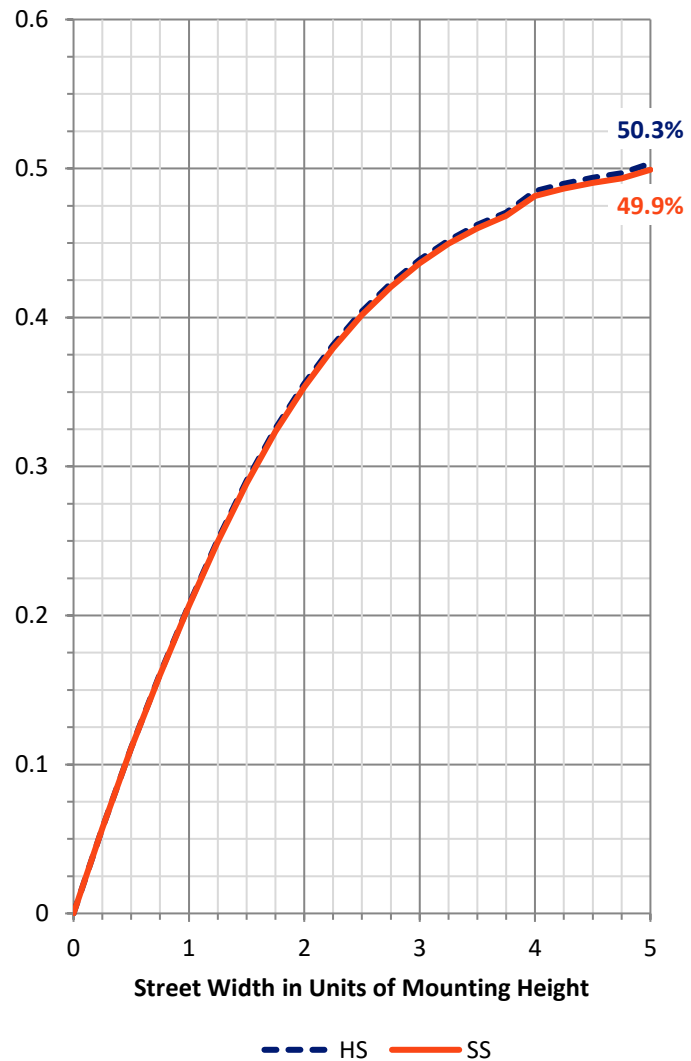
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14231.0	0.0	14231.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14231.0	0.0	14231.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28462.0	0.0	28462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	0.8
10°-20°	622.8	2.2
20°-30°	1042.2	3.7
30°-40°	1601.4	5.6
40°-50°	2651.5	9.3
50°-60°	4713.9	16.6
60°-70°	8246.8	29.0
70°-80°	8390.5	29.5
80°-90°	977.0	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°	28462.0	100.0
0°-180°	28462.0	100.0



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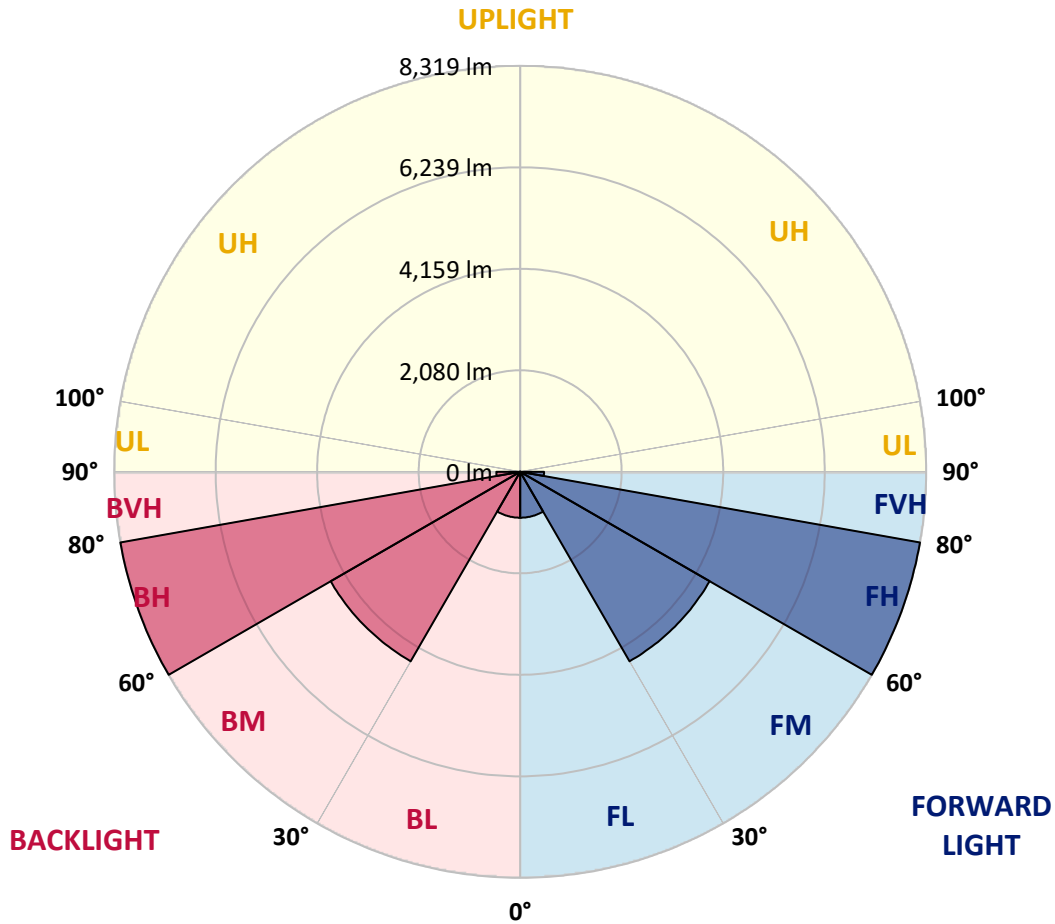
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	940.5	3.3			
FM (30°-60°)	4483.4	15.8			
FH (60°-80°)	8318.6	29.2			G4/12000
FVH (80°-90°)	488.5	1.7			G3/500
BL (0°-30°)	940.5	3.3	B2/1000		
BM (30°-60°)	4483.4	15.8	B3/5000		
BH (60°-80°)	8318.6	29.2	B5		G4/12000
BVH (80°-90°)	488.5	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°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2324.3	2329.7	2318.8	2318.8	2318.8	2313.4	2318.8	2313.4	2318.8	2324.3	2324.3
5°	2302.6	2302.6	2291.8	2291.8	2291.8	2286.3	2291.8	2291.8	2297.2	2302.6	2302.6
7.5°	2253.8	2253.8	2248.4	2243.0	2237.6	2237.6	2243.0	2243.0	2248.4	2253.8	2253.8
10°	2226.7	2221.3	2210.5	2194.2	2188.8	2183.4	2194.2	2205.1	2221.3	2237.6	2232.2
12.5°	2215.9	2210.5	2188.8	2172.6	2161.7	2167.1	2178.0	2188.8	2215.9	2232.2	2226.7
15°	2226.7	2215.9	2188.8	2161.7	2167.1	2178.0	2188.8	2188.8	2221.3	2237.6	2237.6
17.5°	2226.7	2221.3	2188.8	2167.1	2172.6	2188.8	2194.2	2188.8	2215.9	2243.0	2243.0
20°	2232.2	2232.2	2188.8	2172.6	2178.0	2194.2	2199.6	2194.2	2215.9	2248.4	2248.4
22.5°	2243.0	2237.6	2194.2	2183.4	2194.2	2205.1	2210.5	2205.1	2226.7	2253.8	2259.2
25°	2264.7	2253.8	2215.9	2210.5	2232.2	2248.4	2248.4	2237.6	2248.4	2275.5	2275.5
27.5°	2291.8	2286.3	2243.0	2243.0	2270.1	2302.6	2286.3	2264.7	2275.5	2302.6	2302.6
30°	2340.5	2335.1	2291.8	2291.8	2329.7	2367.6	2329.7	2302.6	2318.8	2345.9	2351.3
32.5°	2410.9	2410.9	2373.0	2362.2	2427.2	2443.5	2427.2	2373.0	2383.9	2421.8	2421.8
35°	2530.1	2519.3	2481.4	2476.0	2541.0	2535.6	2530.1	2481.4	2492.2	2535.6	2535.6
37.5°	2687.3	2681.8	2649.3	2633.1	2665.6	2643.9	2654.7	2633.1	2660.2	2692.7	2698.1
40°	2887.7	2882.3	2855.2	2833.5	2844.4	2811.9	2822.7	2833.5	2860.6	2882.3	2887.7
42.5°	3136.9	3136.9	3109.8	3071.9	3055.7	3039.4	3039.4	3061.1	3088.2	3115.3	3115.3
45°	3445.8	3445.8	3413.2	3375.3	3326.6	3299.5	3310.3	3332.0	3364.5	3397.0	3407.8
47.5°	3808.8	3808.8	3765.4	3727.5	3678.7	3646.2	3646.2	3657.1	3705.8	3732.9	3749.2
50°	4215.1	4198.8	4155.5	4117.6	4090.5	4047.1	4052.6	4047.1	4090.5	4128.4	4139.2
52.5°	4637.7	4632.3	4588.9	4578.1	4594.3	4572.7	4572.7	4518.5	4534.7	4556.4	4551.0
55°	5163.2	5147.0	5109.0	5130.7	5195.7	5228.2	5217.4	5130.7	5081.9	5092.8	5087.4
57.5°	5737.5	5721.3	5710.4	5775.4	5921.7	6057.2	6030.1	5829.6	5737.5	5742.9	5748.3
60°	6322.6	6322.6	6355.1	6517.7	6831.9	7054.0	6972.8	6636.9	6474.3	6441.8	6431.0
62.5°	6924.0	6940.3	7010.7	7281.6	7763.8	8132.2	7926.3	7449.5	7205.7	7140.7	7119.1
65°	7622.9	7639.2	7742.1	8078.0	8717.3	9156.2	8804.0	8354.3	8013.0	7877.6	7855.9
67.5°	8636.1	8646.9	8728.2	9053.2	9654.6	10006.8	9643.8	9242.9	8874.4	8717.3	8706.5
70°	9546.3	9557.1	9627.5	10055.5	10608.2	10732.8	10331.8	9822.6	9437.9	9313.3	9291.6
72.5°	9340.4	9378.3	9611.3	10277.7	11128.3	11290.8	10445.6	9681.7	9064.1	8858.2	8793.2
75°	7834.2	7893.8	8262.2	9264.5	10619.0	11079.5	9773.8	8370.6	7449.5	7054.0	6951.1
77.5°	4572.7	4794.8	5428.7	6712.7	8646.9	9584.2	8050.9	6127.6	4578.1	3927.9	3711.2
80°	1251.5	1370.7	1831.2	3088.2	5423.3	6712.7	5136.1	2811.9	1517.0	1137.7	1056.5
82.5°	395.5	525.5	666.4	888.5	2129.2	3537.9	1907.1	828.9	650.1	536.4	476.8
85°	211.3	227.5	373.8	433.4	639.3	991.5	590.5	433.4	390.1	287.1	270.9
87.5°	108.4	113.8	211.3	211.3	281.7	233.0	254.6	233.0	222.1	140.9	124.6
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)