

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: P236759

Luminaire Tested: **ARCH-L-AF72-260-D-U-5WQ-7050**

Issue Date: 2/14/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236759  
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-AF72-260-D-U-5WQ-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29806 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

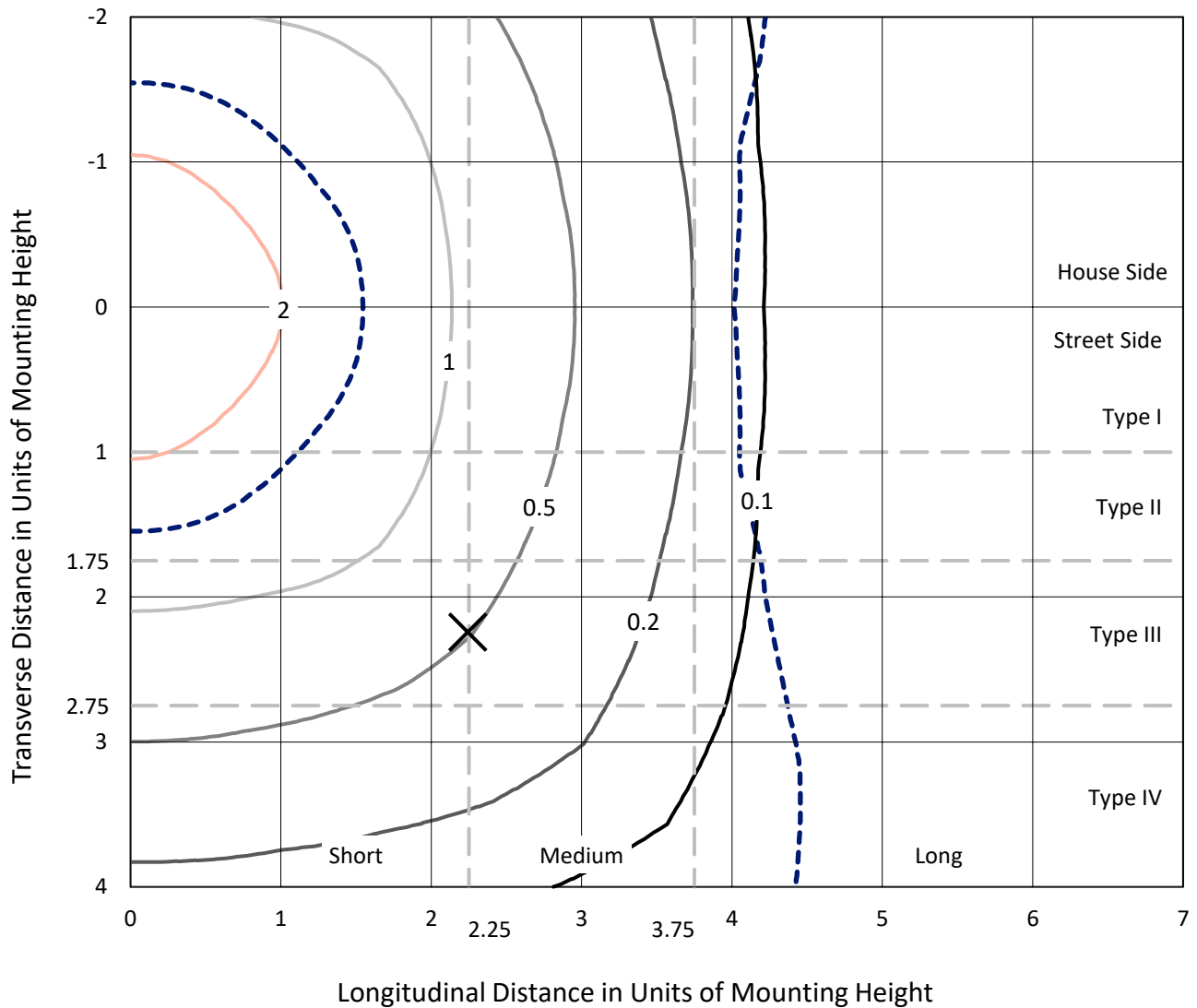
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

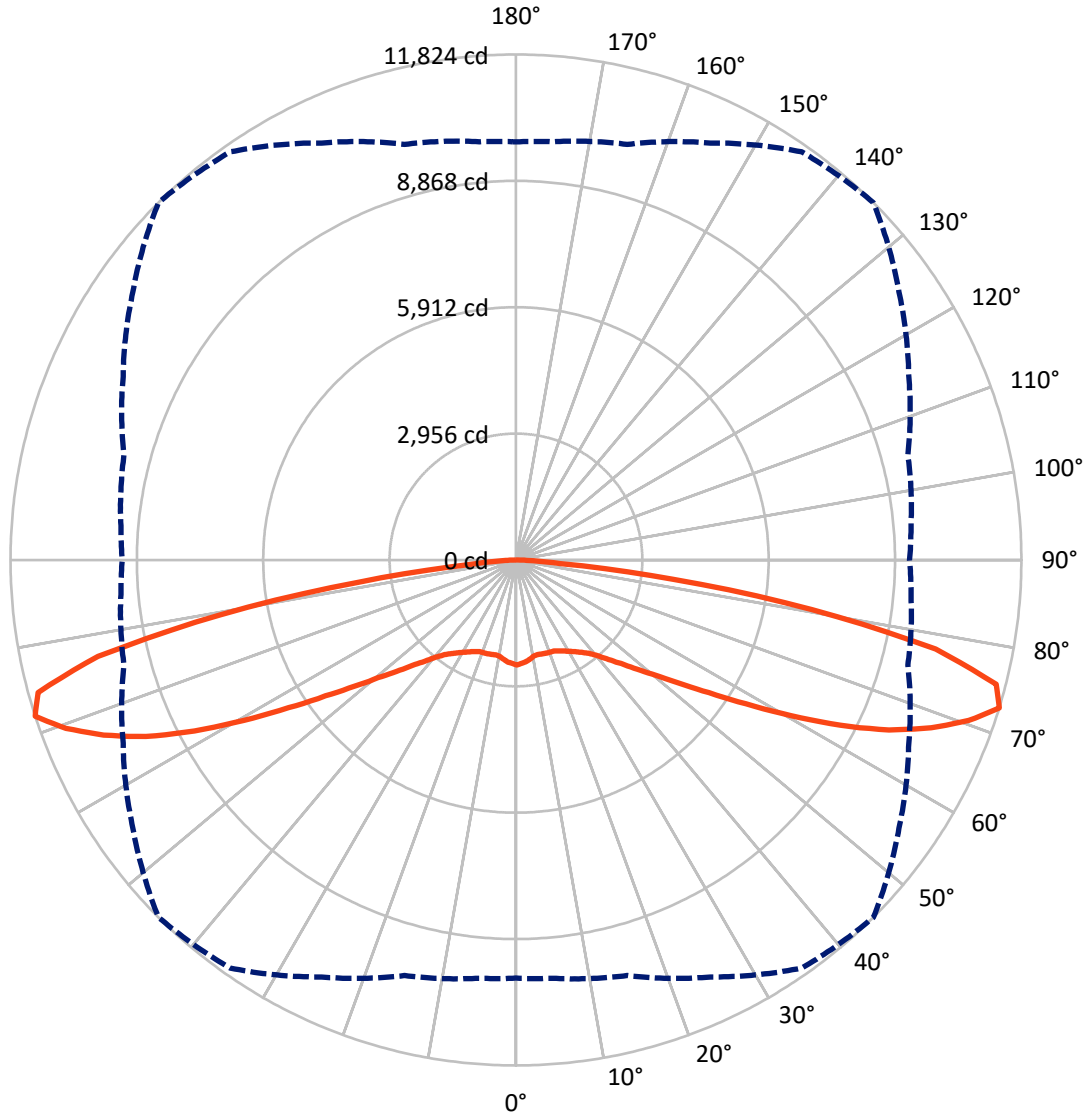
× Max cd  
 - - - 1/2 Max cd



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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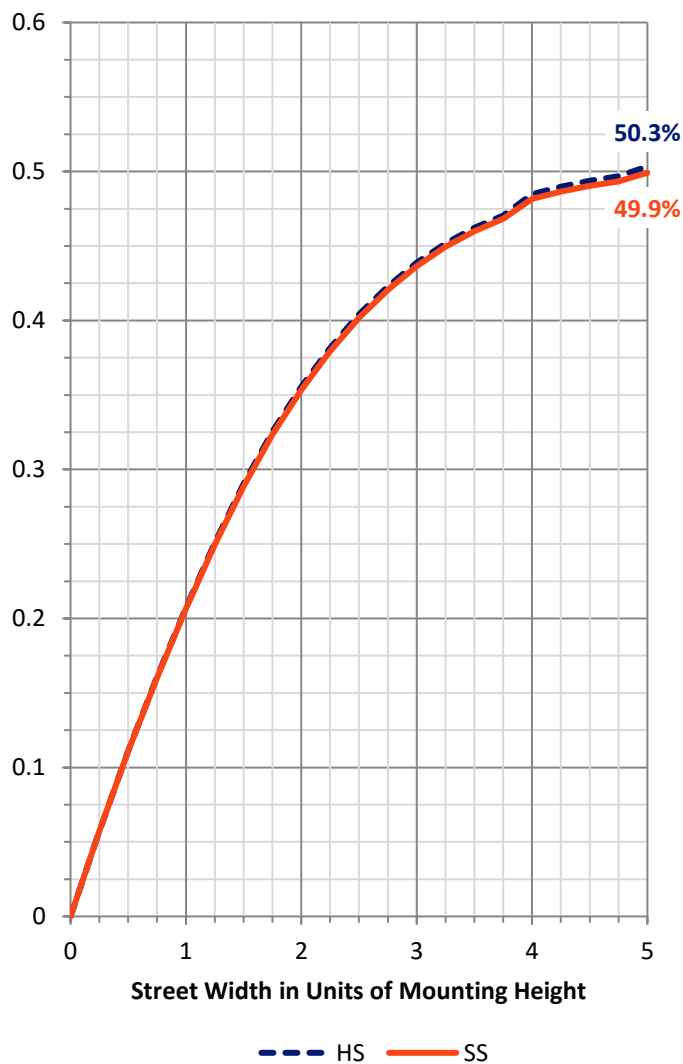
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14903.0	0.0	14903.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14903.0	0.0	14903.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29806.0	0.0	29806.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	0.8
10°-20°	652.2	2.2
20°-30°	1091.4	3.7
30°-40°	1677.0	5.6
40°-50°	2776.7	9.3
50°-60°	4936.5	16.6
60°-70°	8636.2	29.0
70°-80°	8786.7	29.5
80°-90°	1023.2	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°	29806.0	100.0
0°-180°	29806.0	100.0



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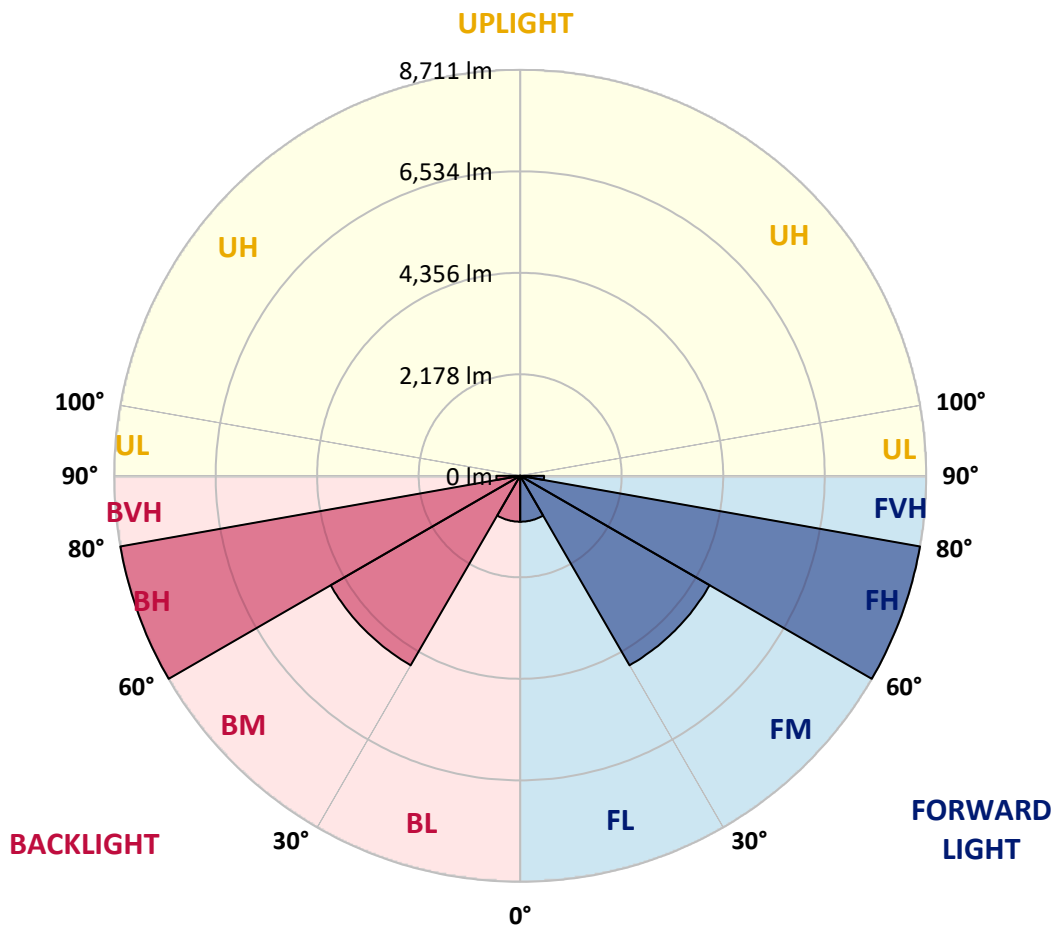
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.9	3.3			
FM (30°-60°)	4695.1	15.8			
FH (60°-80°)	8711.5	29.2			G4/12000
FVH (80°-90°)	511.6	1.7			G4/750
BL (0°-30°)	984.9	3.3	B2/1000		
BM (30°-60°)	4695.1	15.8	B3/5000		
BH (60°-80°)	8711.5	29.2	B5		G4/12000
BVH (80°-90°)	511.6	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°	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7	2456.7
2.5°	2434.0	2439.7	2428.3	2428.3	2428.3	2422.7	2428.3	2422.7	2428.3	2434.0	2434.0
5°	2411.3	2411.3	2400.0	2400.0	2400.0	2394.3	2400.0	2400.0	2405.6	2411.3	2411.3
7.5°	2360.3	2360.3	2354.6	2348.9	2343.2	2343.2	2348.9	2348.9	2354.6	2360.3	2360.3
10°	2331.9	2326.2	2314.9	2297.8	2292.2	2286.5	2297.8	2309.2	2326.2	2343.2	2337.6
12.5°	2320.5	2314.9	2292.2	2275.1	2263.8	2269.5	2280.8	2292.2	2320.5	2337.6	2331.9
15°	2331.9	2320.5	2292.2	2263.8	2269.5	2280.8	2292.2	2292.2	2326.2	2343.2	2343.2
17.5°	2331.9	2326.2	2292.2	2269.5	2275.1	2292.2	2297.8	2292.2	2320.5	2348.9	2348.9
20°	2337.6	2337.6	2292.2	2275.1	2280.8	2297.8	2303.5	2297.8	2320.5	2354.6	2354.6
22.5°	2348.9	2343.2	2297.8	2286.5	2297.8	2309.2	2314.9	2309.2	2331.9	2360.3	2365.9
25°	2371.6	2360.3	2320.5	2314.9	2337.6	2354.6	2354.6	2343.2	2354.6	2382.9	2382.9
27.5°	2400.0	2394.3	2348.9	2348.9	2377.3	2411.3	2394.3	2371.6	2382.9	2411.3	2411.3
30°	2451.0	2445.4	2400.0	2400.0	2439.7	2479.4	2439.7	2411.3	2428.3	2456.7	2462.4
32.5°	2524.8	2524.8	2485.1	2473.7	2541.8	2558.8	2541.8	2485.1	2496.4	2536.1	2536.1
35°	2649.6	2638.3	2598.5	2592.9	2661.0	2655.3	2649.6	2598.5	2609.9	2655.3	2655.3
37.5°	2814.1	2808.5	2774.4	2757.4	2791.5	2768.8	2780.1	2757.4	2785.8	2819.8	2825.5
40°	3024.1	3018.4	2990.0	2967.3	2978.7	2944.6	2956.0	2967.3	2995.7	3018.4	3024.1
42.5°	3285.1	3285.1	3256.7	3217.0	3200.0	3182.9	3182.9	3205.6	3234.0	3262.4	3262.4
45°	3608.5	3608.5	3574.4	3534.7	3483.6	3455.3	3466.6	3489.3	3523.4	3557.4	3568.7
47.5°	3988.6	3988.6	3943.2	3903.5	3852.4	3818.4	3818.4	3829.7	3880.8	3909.2	3926.2
50°	4414.1	4397.1	4351.7	4312.0	4283.6	4238.2	4243.9	4238.2	4283.6	4323.4	4334.7
52.5°	4856.7	4851.0	4805.6	4794.3	4811.3	4788.6	4788.6	4731.9	4748.9	4771.6	4765.9
55°	5407.0	5390.0	5350.3	5373.0	5441.1	5475.1	5463.8	5373.0	5321.9	5333.3	5327.6
57.5°	6008.4	5991.4	5980.1	6048.2	6201.3	6343.2	6314.8	6104.9	6008.4	6014.1	6019.8
60°	6621.2	6621.2	6655.2	6825.4	7154.5	7387.1	7302.0	6950.3	6780.1	6746.0	6734.7
62.5°	7251.0	7268.0	7341.8	7625.4	8130.4	8516.2	8300.6	7801.3	7546.0	7477.9	7455.2
65°	7982.9	7999.9	8107.7	8459.5	9129.0	9588.5	9219.7	8748.8	8391.4	8249.5	8226.8
67.5°	9043.9	9055.2	9140.3	9480.7	10110.5	10479.3	10099.2	9679.3	9293.5	9129.0	9117.6
70°	9997.0	10008.4	10082.1	10530.4	11109.1	11239.6	10819.7	10286.4	9883.6	9753.1	9730.4
72.5°	9781.4	9821.2	10065.1	10763.0	11653.8	11824.0	10938.9	10138.9	9492.1	9276.5	9208.4
75°	8204.2	8266.6	8652.4	9702.0	11120.4	11602.7	10235.3	8765.8	7801.3	7387.1	7279.3
77.5°	4788.6	5021.2	5685.0	7029.7	9055.2	10036.8	8431.1	6416.9	4794.3	4113.4	3886.5
80°	1310.6	1435.4	1917.7	3234.0	5679.4	7029.7	5378.7	2944.6	1588.6	1191.5	1106.4
82.5°	414.2	550.3	697.9	930.5	2229.8	3704.9	1997.1	868.1	680.8	561.7	499.3
85°	221.3	238.3	391.5	453.9	669.5	1038.3	618.4	453.9	408.5	300.7	283.7
87.5°	113.5	119.1	221.3	221.3	295.0	244.0	266.7	244.0	232.6	147.5	130.5
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)