

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: P236739

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-260-D-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 30490 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G4

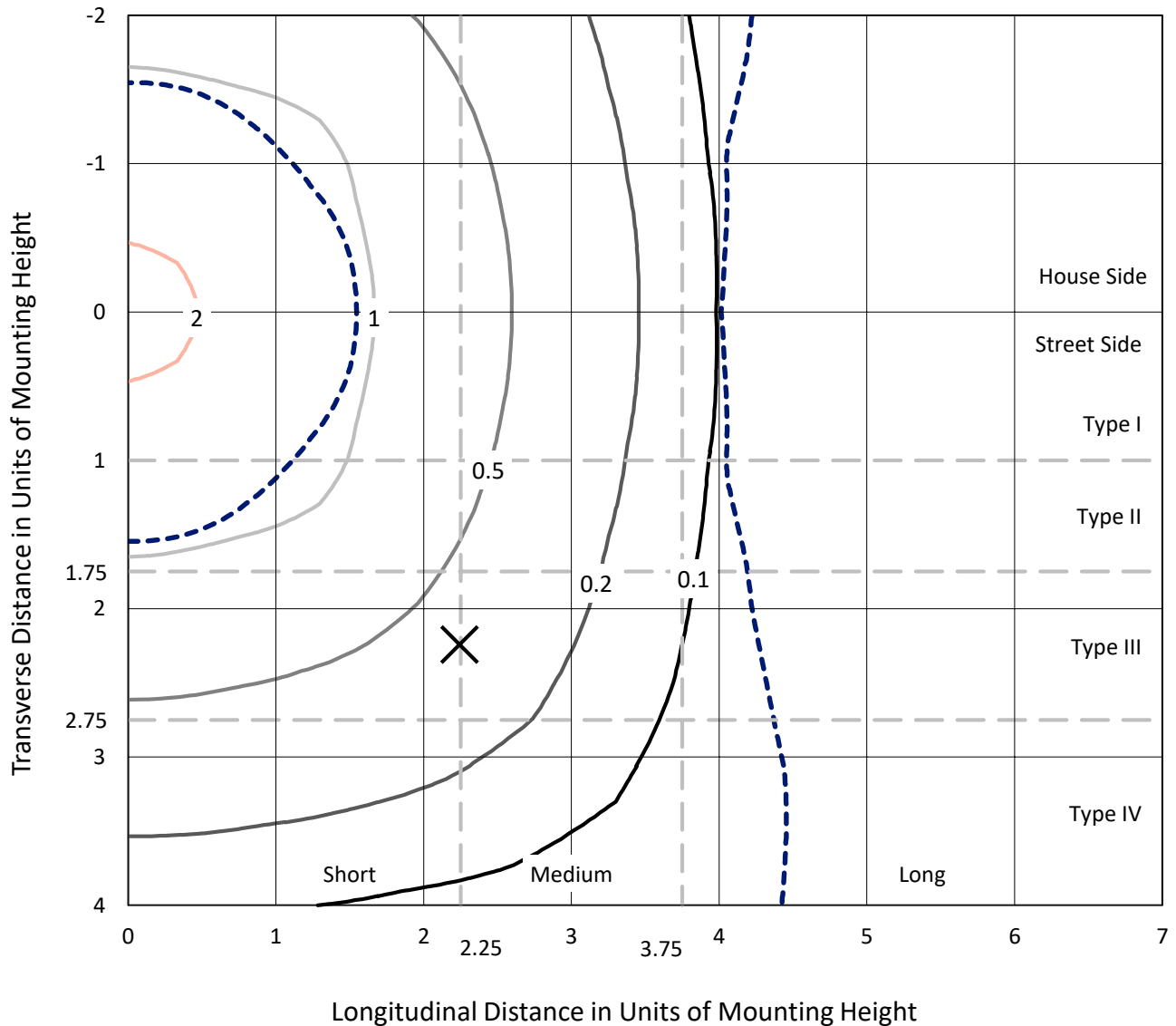
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

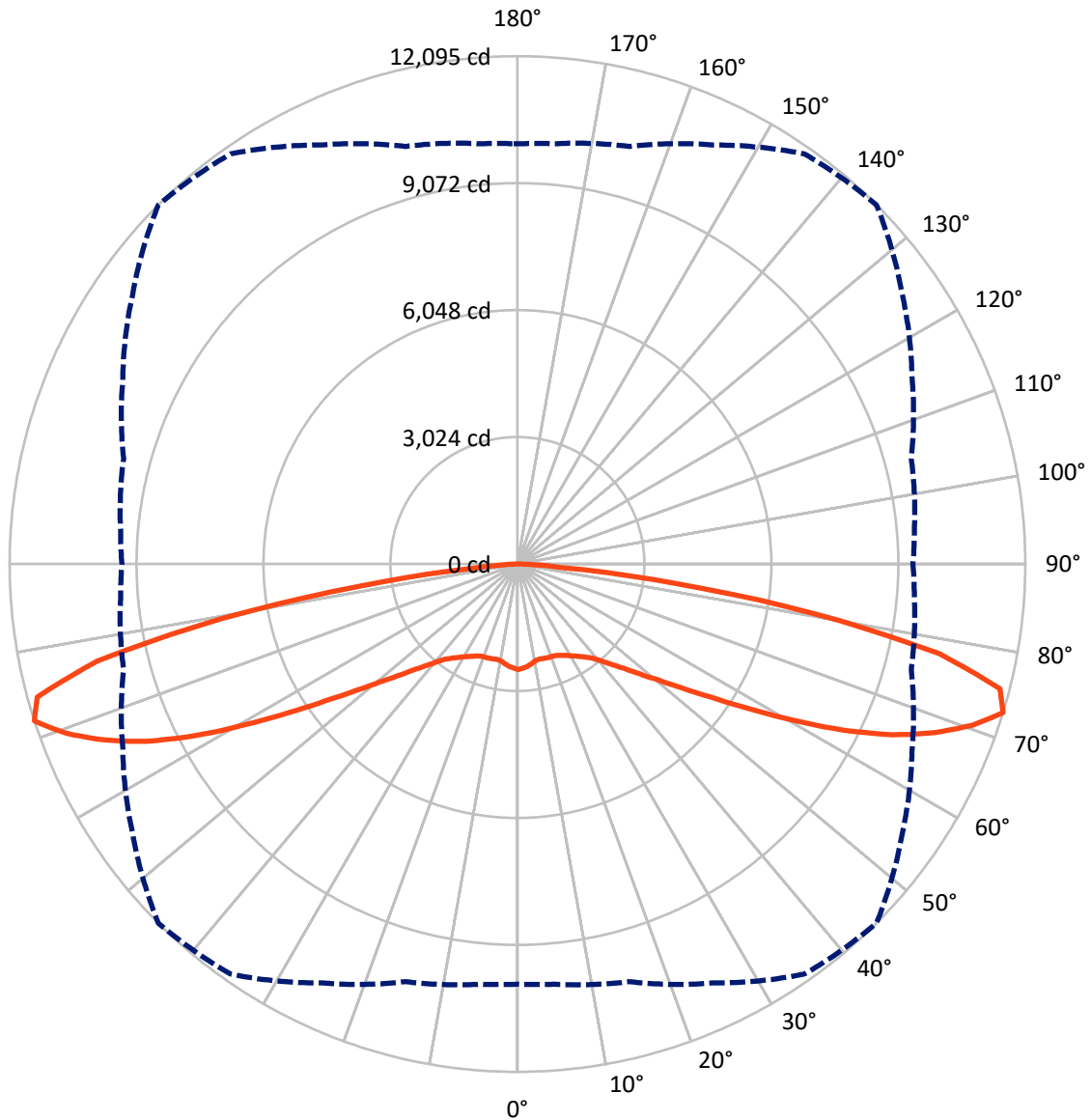


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Non-Cutoff

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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	15245.0	0.0	15245.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15245.0	0.0	15245.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30490.0	0.0	30490.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.3	0.8
10°-20°	667.2	2.2
20°-30°	1116.5	3.7
30°-40°	1715.5	5.6
40°-50°	2840.4	9.3
50°-60°	5049.8	16.6
60°-70°	8834.4	29.0
70°-80°	8988.4	29.5
80°-90°	1046.6	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°	30490.0	100.0
0°-180°	30490.0	100.0



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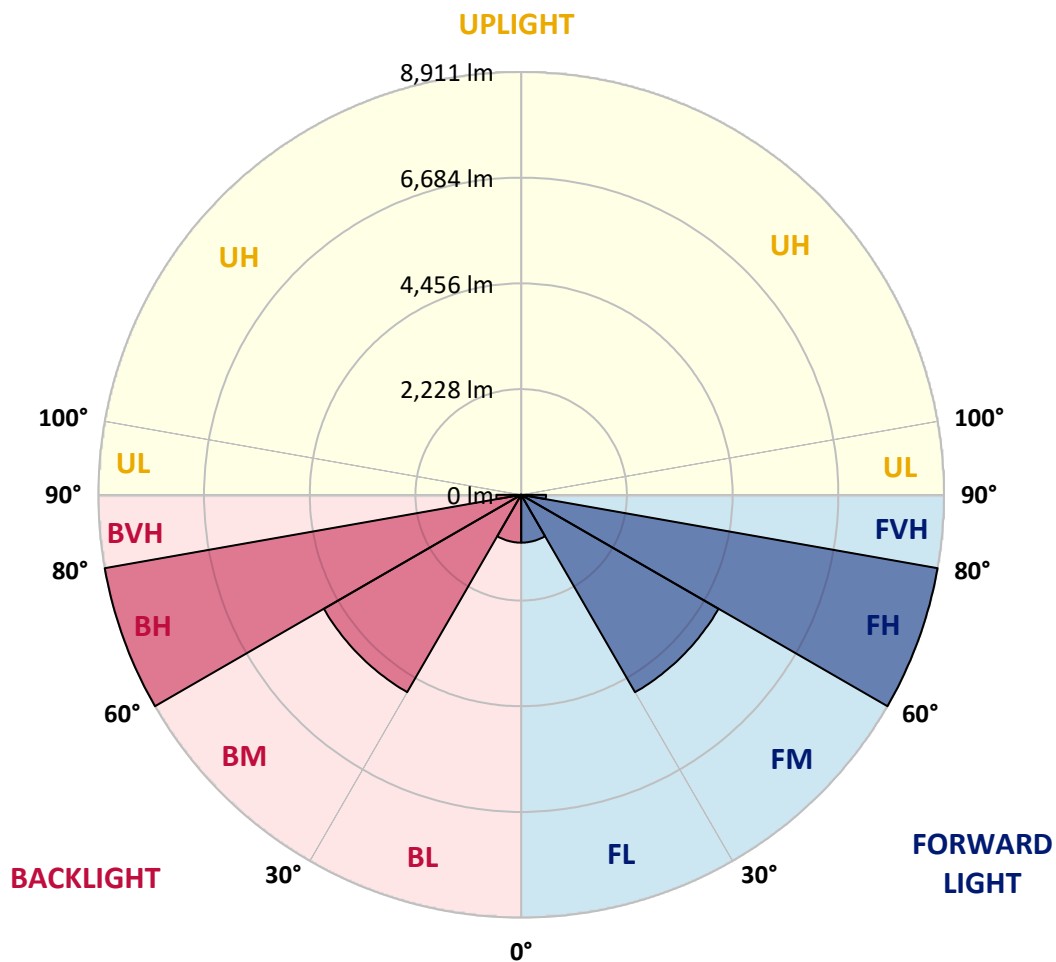
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1007.5	3.3			
FM	(30°-60°)	4802.8	15.8			
FH	(60°-80°)	8911.4	29.2			G4/12000
FVH	(80°-90°)	523.3	1.7			G4/750
BL	(0°-30°)	1007.5	3.3	B3/2500		
BM	(30°-60°)	4802.8	15.8	B3/5000		
BH	(60°-80°)	8911.4	29.2	B5		G4/12000
BVH	(80°-90°)	523.3	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°	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1	2513.1
2.5°	2489.9	2495.7	2484.0	2484.0	2484.0	2478.3	2484.0	2478.3	2484.0	2489.9	2489.9
5°	2466.6	2466.6	2455.1	2455.1	2455.1	2449.3	2455.1	2455.1	2460.8	2466.6	2466.6
7.5°	2414.5	2414.5	2408.6	2402.8	2397.0	2397.0	2402.8	2402.8	2408.6	2414.5	2414.5
10°	2385.4	2379.6	2368.0	2350.5	2344.8	2339.0	2350.5	2362.2	2379.6	2397.0	2391.2
12.5°	2373.8	2368.0	2344.8	2327.3	2315.8	2321.6	2333.1	2344.8	2373.8	2391.2	2385.4
15°	2385.4	2373.8	2344.8	2315.8	2321.6	2333.1	2344.8	2344.8	2379.6	2397.0	2397.0
17.5°	2385.4	2379.6	2344.8	2321.6	2327.3	2344.8	2350.5	2344.8	2373.8	2402.8	2402.8
20°	2391.2	2391.2	2344.8	2327.3	2333.1	2350.5	2356.4	2350.5	2373.8	2408.6	2408.6
22.5°	2402.8	2397.0	2350.5	2339.0	2350.5	2362.2	2368.0	2362.2	2385.4	2414.5	2420.2
25°	2426.0	2414.5	2373.8	2368.0	2391.2	2408.6	2408.6	2397.0	2408.6	2437.6	2437.6
27.5°	2455.1	2449.3	2402.8	2402.8	2431.9	2466.6	2449.3	2426.0	2437.6	2466.6	2466.6
30°	2507.3	2501.5	2455.1	2455.1	2495.7	2536.3	2495.7	2466.6	2484.0	2513.1	2518.9
32.5°	2582.7	2582.7	2542.1	2530.5	2600.1	2617.5	2600.1	2542.1	2553.7	2594.3	2594.3
35°	2710.4	2698.9	2658.1	2652.4	2722.1	2716.2	2710.4	2658.1	2669.8	2716.2	2716.2
37.5°	2878.7	2873.0	2838.1	2820.7	2855.6	2832.3	2843.9	2820.7	2849.7	2884.5	2890.3
40°	3093.5	3087.7	3058.6	3035.4	3047.1	3012.2	3023.8	3035.4	3064.5	3087.7	3093.5
42.5°	3360.5	3360.5	3331.4	3290.8	3273.4	3256.0	3256.0	3279.2	3308.2	3337.3	3337.3
45°	3691.3	3691.3	3656.4	3615.8	3563.6	3534.6	3546.2	3569.4	3604.3	3639.0	3650.6
47.5°	4080.1	4080.1	4033.7	3993.1	3940.8	3906.0	3906.0	3917.6	3969.9	3998.9	4016.3
50°	4515.4	4498.0	4451.6	4411.0	4381.9	4335.5	4341.3	4335.5	4381.9	4422.6	4434.2
52.5°	4968.2	4962.3	4915.9	4904.3	4921.7	4898.5	4898.5	4840.5	4857.9	4881.1	4875.3
55°	5531.1	5513.7	5473.1	5496.3	5566.0	5600.8	5589.2	5496.3	5444.0	5455.7	5449.9
57.5°	6146.3	6128.9	6117.3	6187.0	6343.6	6488.8	6459.7	6245.0	6146.3	6152.1	6158.0
60°	6773.2	6773.2	6807.9	6982.0	7318.7	7556.6	7469.6	7109.8	6935.7	6900.8	6889.3
62.5°	7417.4	7434.8	7510.3	7800.4	8317.0	8711.7	8491.1	7980.3	7719.2	7649.5	7626.3
65°	8166.1	8183.5	8293.8	8653.7	9338.5	9808.6	9431.3	8949.6	8584.0	8438.8	8415.6
67.5°	9251.5	9263.0	9350.1	9698.3	10342.5	10719.8	10331.0	9901.4	9506.8	9338.5	9326.9
70°	10226.4	10238.1	10313.5	10772.1	11364.1	11497.6	11068.0	10522.5	10110.4	9976.9	9953.7
72.5°	10005.9	10046.6	10296.1	11010.0	11921.3	12095.4	11190.0	10371.6	9710.0	9489.4	9419.7
75°	8392.5	8456.3	8851.0	9924.7	11375.6	11869.0	10470.2	8967.0	7980.3	7556.6	7446.4
77.5°	4898.5	5136.4	5815.5	7191.0	9263.0	10267.2	8624.6	6564.2	4904.3	4207.8	3975.7
80°	1340.7	1468.3	1961.7	3308.2	5809.7	7191.0	5502.1	3012.2	1625.1	1218.8	1131.8
82.5°	423.7	562.9	713.9	951.9	2281.0	3789.9	2042.9	888.0	696.4	574.6	510.8
85°	226.4	243.8	400.5	464.3	684.9	1062.1	632.6	464.3	417.9	307.6	290.2
87.5°	116.1	121.8	226.4	226.4	301.8	249.6	272.8	249.6	237.9	150.9	133.5
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)