

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: P400415

Luminaire Tested: **ARCH-L-PA3-280-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-280-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30882 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

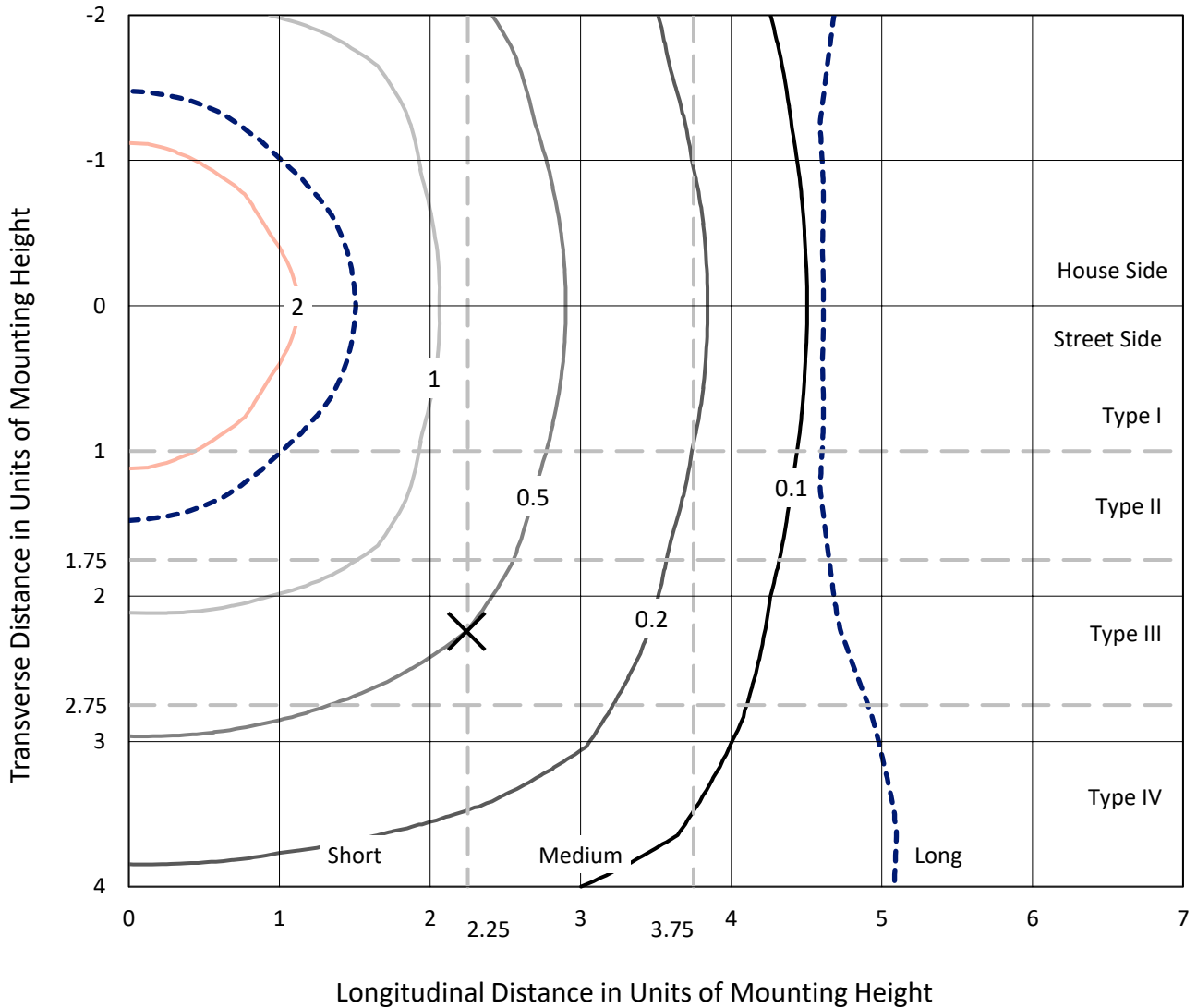
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

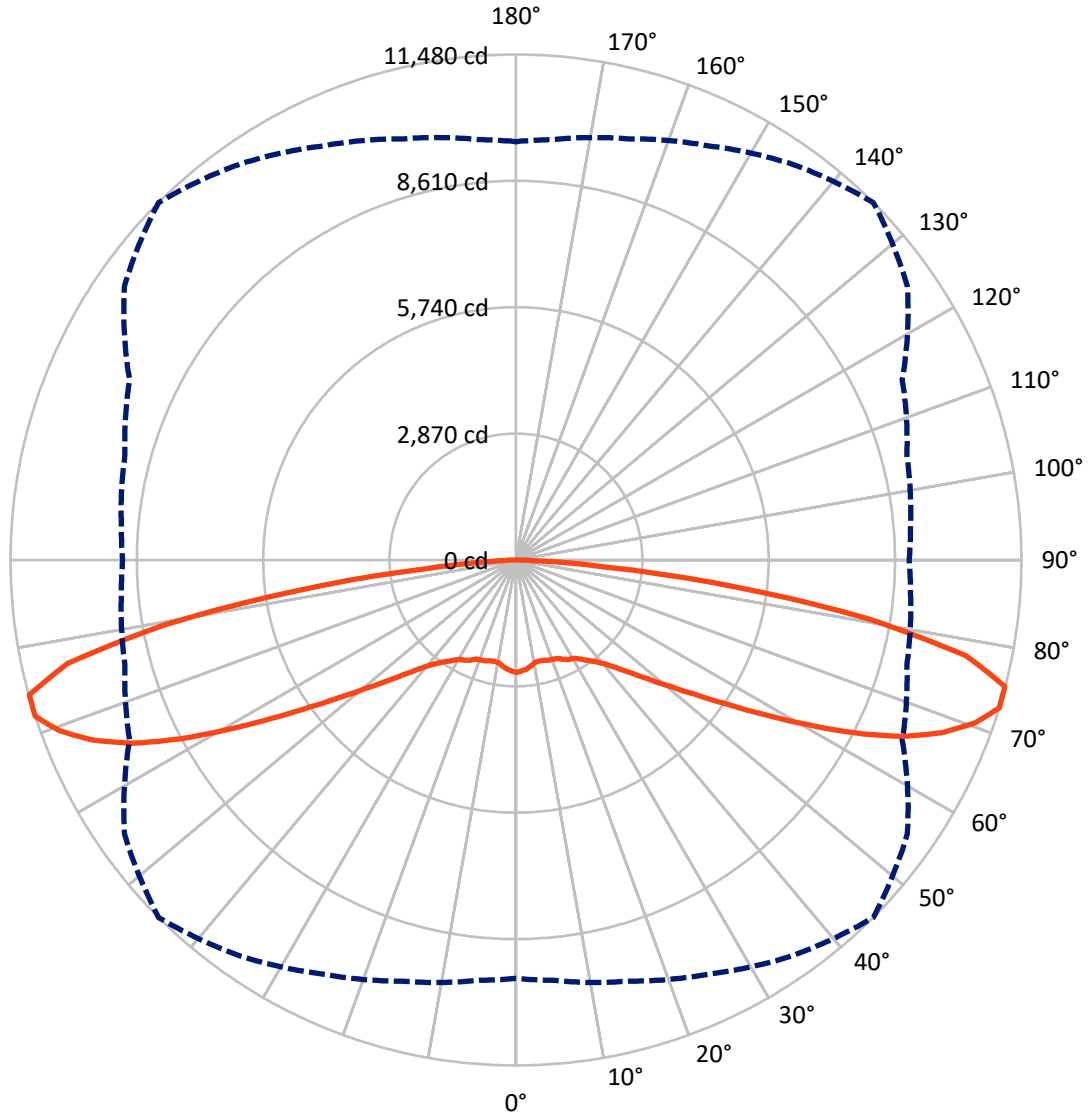
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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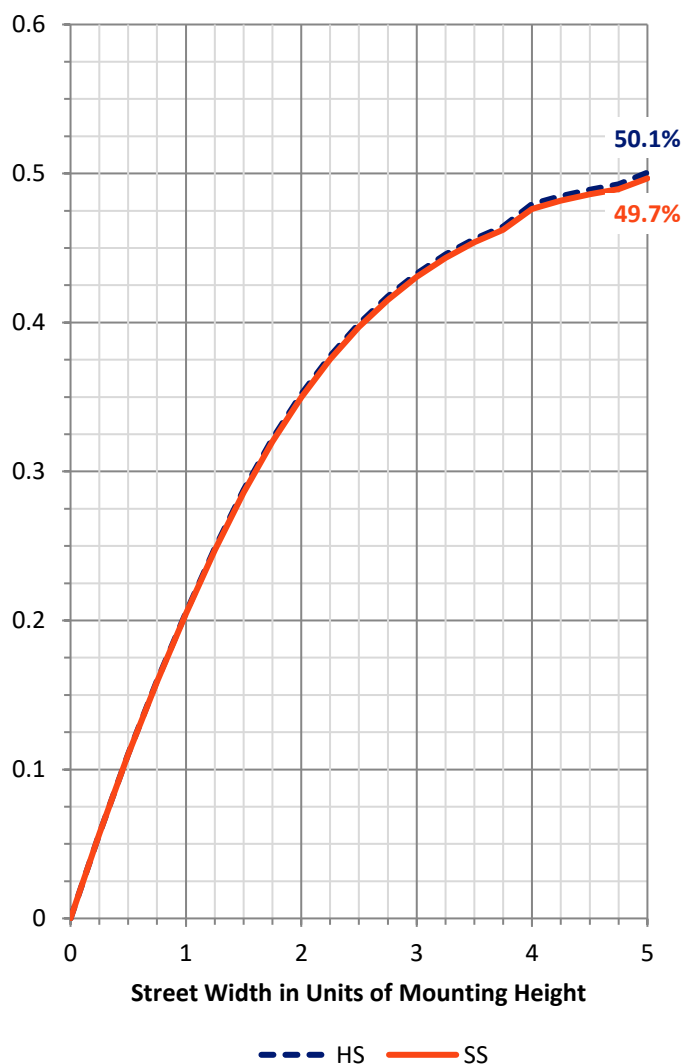
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15441.0	0.0	15441.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15441.0	0.0	15441.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30882.0	0.0	30882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	0.8
10°-20°	680.2	2.2
20°-30°	1155.8	3.7
30°-40°	1762.9	5.7
40°-50°	2902.8	9.4
50°-60°	5069.1	16.4
60°-70°	8498.5	27.5
70°-80°	9095.1	29.5
80°-90°	1483.4	4.8
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°	30882.0	100.0
0°-180°	30882.0	100.0

**Coefficient of Utilization**

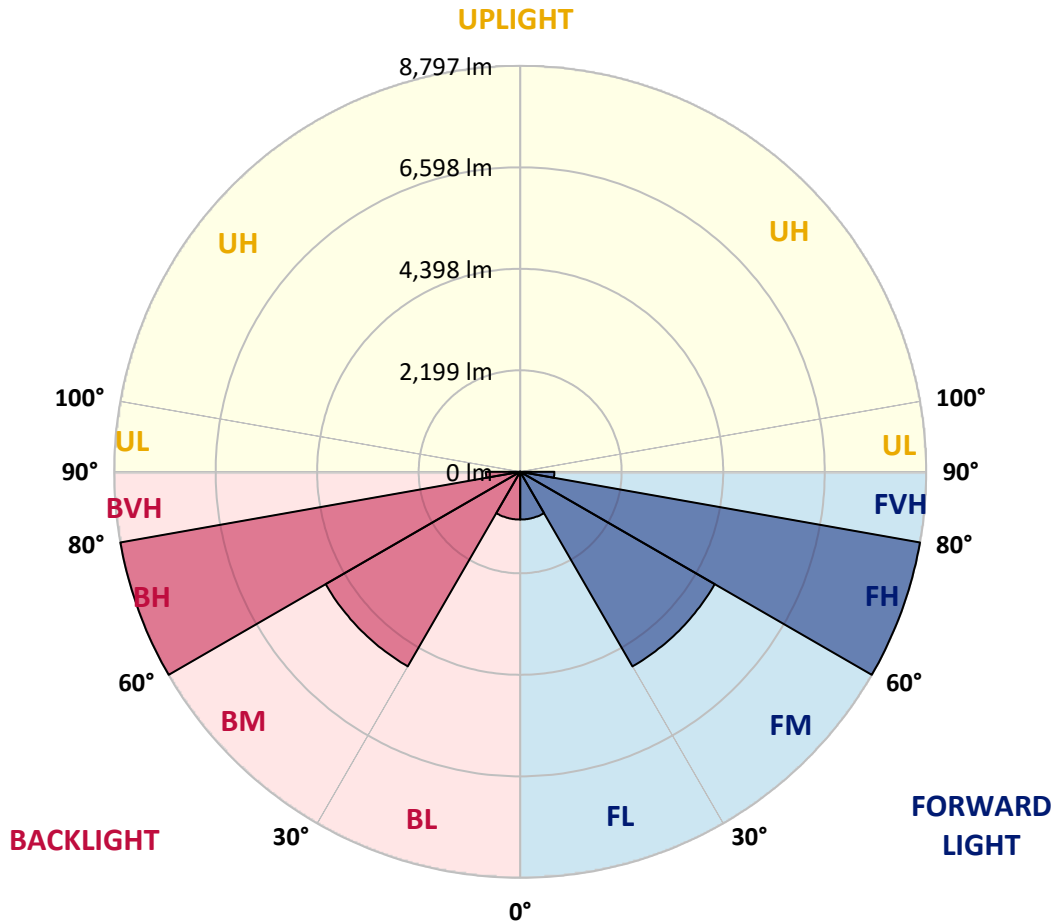


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.2	3.4			
FM (30°-60°)	4867.4	15.8			
FH (60°-80°)	8796.8	28.5			G4/12000
FVH (80°-90°)	741.7	2.4			G4/750
BL (0°-30°)	1035.2	3.4	B3/2500		
BM (30°-60°)	4867.4	15.8	B3/5000		
BH (60°-80°)	8796.8	28.5	B5		G4/12000
BVH (80°-90°)	741.7	2.4			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°	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
2.5°	2539.7	2539.7	2539.7	2535.8	2527.9	2524.0	2516.1	2520.0	2520.0	2520.0	2520.0
5°	2508.2	2508.2	2504.3	2500.3	2492.4	2488.5	2480.6	2488.5	2488.5	2488.5	2488.5
7.5°	2449.0	2453.0	2453.0	2449.0	2437.2	2433.3	2421.4	2425.4	2425.4	2429.3	2425.4
10°	2417.5	2417.5	2413.5	2393.8	2374.1	2366.2	2362.3	2374.1	2385.9	2397.8	2397.8
12.5°	2417.5	2417.5	2409.6	2378.1	2350.4	2350.4	2350.4	2366.2	2389.9	2413.5	2417.5
15°	2429.3	2429.3	2413.5	2378.1	2362.3	2366.2	2366.2	2382.0	2409.6	2441.2	2445.1
17.5°	2437.2	2437.2	2417.5	2382.0	2382.0	2393.8	2385.9	2397.8	2425.4	2460.9	2464.8
20°	2449.0	2449.0	2421.4	2393.8	2393.8	2405.7	2405.7	2417.5	2441.2	2476.6	2480.6
22.5°	2472.7	2468.8	2441.2	2417.5	2417.5	2425.4	2433.3	2449.0	2468.8	2500.3	2508.2
25°	2500.3	2500.3	2476.6	2472.7	2480.6	2500.3	2496.4	2492.4	2500.3	2527.9	2539.7
27.5°	2516.1	2516.1	2500.3	2512.1	2543.7	2559.5	2539.7	2524.0	2524.0	2551.6	2555.5
30°	2567.4	2563.4	2547.6	2555.5	2583.1	2591.0	2579.2	2559.5	2571.3	2602.8	2606.8
32.5°	2654.1	2654.1	2630.5	2630.5	2650.2	2681.7	2642.3	2630.5	2646.2	2681.7	2685.7
35°	2788.2	2788.2	2756.6	2740.9	2756.6	2800.0	2740.9	2736.9	2764.5	2804.0	2807.9
37.5°	2957.8	2957.8	2938.1	2898.6	2902.6	2930.2	2878.9	2875.0	2926.2	2969.6	2969.6
40°	3170.7	3182.6	3162.9	3115.5	3099.8	3103.7	3064.3	3068.2	3127.4	3178.6	3178.6
42.5°	3435.0	3442.9	3411.3	3375.8	3356.1	3344.3	3304.8	3312.7	3383.7	3450.7	3450.7
45°	3754.4	3758.3	3726.8	3683.4	3659.8	3651.9	3612.4	3632.2	3711.0	3782.0	3778.1
47.5°	4113.3	4117.2	4085.7	4042.3	4026.5	4038.4	3998.9	3998.9	4069.9	4129.1	4121.2
50°	4519.5	4527.4	4491.9	4472.2	4460.3	4491.9	4444.6	4401.2	4448.5	4507.7	4499.8
52.5°	4969.1	4988.8	4965.1	4973.0	5016.4	5055.8	4977.0	4882.3	4906.0	4945.4	4933.6
55°	5513.3	5537.0	5544.8	5572.5	5686.8	5753.9	5623.7	5466.0	5454.1	5458.1	5438.4
57.5°	6124.6	6140.3	6191.6	6254.7	6491.3	6597.8	6392.7	6120.6	6033.9	5982.6	5970.8
60°	6739.8	6767.4	6893.6	7023.7	7386.6	7579.8	7264.3	6806.8	6621.5	6526.8	6507.1
62.5°	7359.0	7414.2	7619.2	7840.1	8368.5	8656.4	8171.4	7508.8	7240.6	7122.3	7090.8
65°	8076.7	8143.7	8392.2	8672.2	9259.8	9666.0	9078.4	8234.5	7946.6	7788.8	7749.4
67.5°	8916.7	8987.7	9188.8	9500.4	10056.4	10454.8	9934.2	8975.9	8601.2	8400.1	8368.5
70°	9606.9	9670.0	9886.9	10202.4	10616.4	11070.0	10573.1	9567.4	9228.3	9086.3	9066.6
72.5°	9500.4	9583.2	9902.6	10375.9	10967.4	11480.1	10853.1	9681.8	9192.8	8995.6	8932.5
75°	8297.6	8388.3	8766.9	9622.6	10703.2	11468.3	10446.9	8920.7	8344.9	8179.2	8147.7
77.5°	5493.6	5580.3	6219.2	7568.0	9346.6	10450.8	9220.4	7473.3	6546.5	6148.2	6124.6
80°	2220.3	2330.7	2942.0	4373.6	6625.4	8124.0	6838.4	4783.7	3225.9	2602.8	2476.6
82.5°	516.6	615.2	895.2	1613.0	3391.6	5059.8	3687.4	1786.5	1037.2	737.5	662.5
85°	216.9	220.8	382.5	524.5	1060.9	2042.8	1206.8	650.7	528.5	386.5	378.6
87.5°	82.8	86.8	185.4	220.8	339.2	386.5	410.1	335.2	311.6	193.2	185.4
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)