

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: P236761

Luminaire Tested: **ARCH-L-AF72-280-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236761
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-AF72-280-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 31078 lumens
Efficiency: N/A
Efficacy: 111.4 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

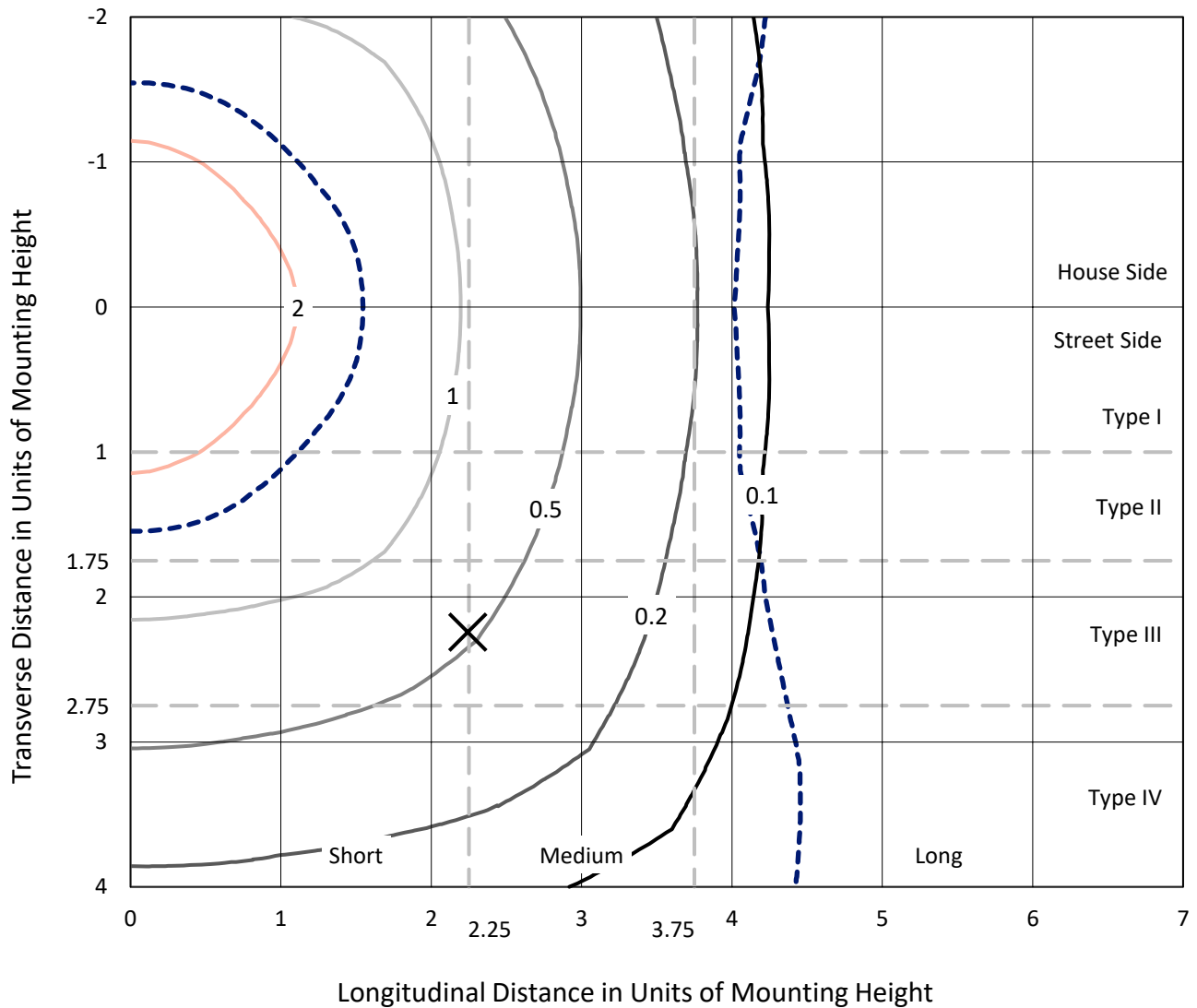
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

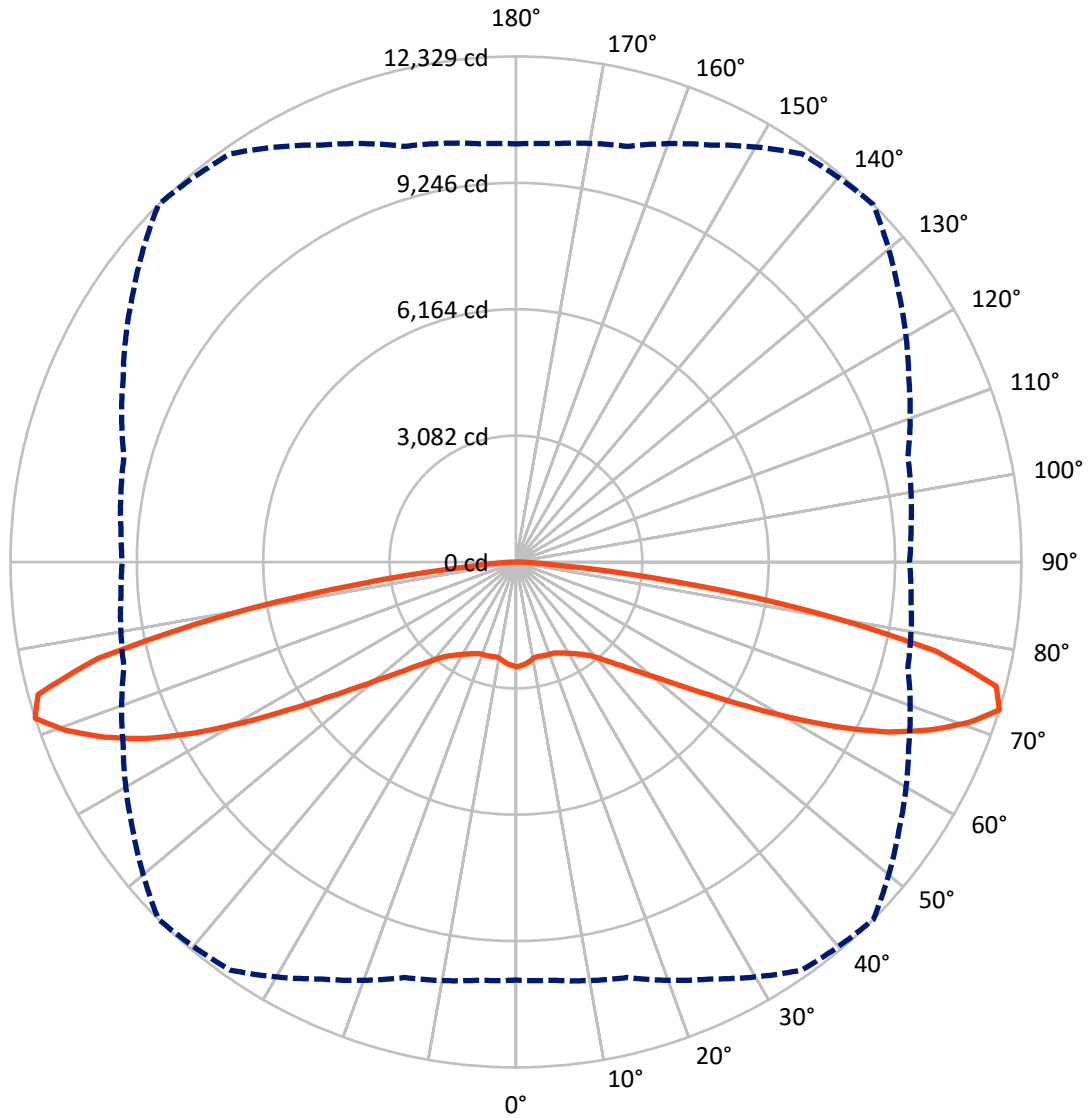
✕ Max cd
 - - - 1/2 Max cd



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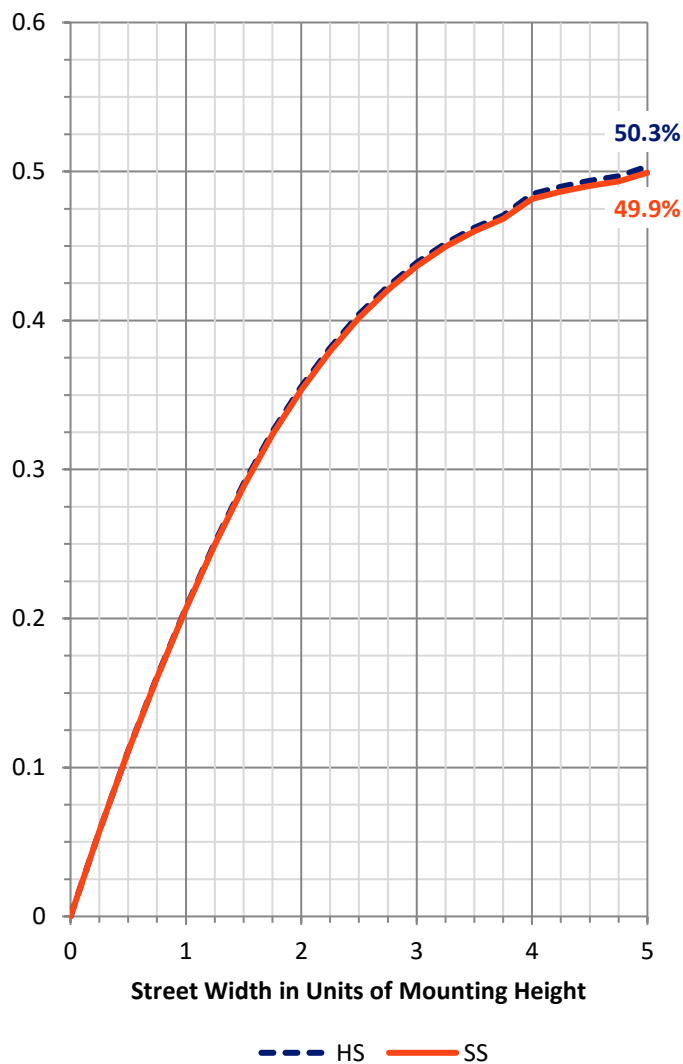
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15539.0	0.0	15539.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15539.0	0.0	15539.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31078.0	0.0	31078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	0.8
10°-20°	680.0	2.2
20°-30°	1138.0	3.7
30°-40°	1748.6	5.6
40°-50°	2895.2	9.3
50°-60°	5147.1	16.6
60°-70°	9004.8	29.0
70°-80°	9161.7	29.5
80°-90°	1066.8	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°	31078.0	100.0
0°-180°	31078.0	100.0

Coefficient of Utilization



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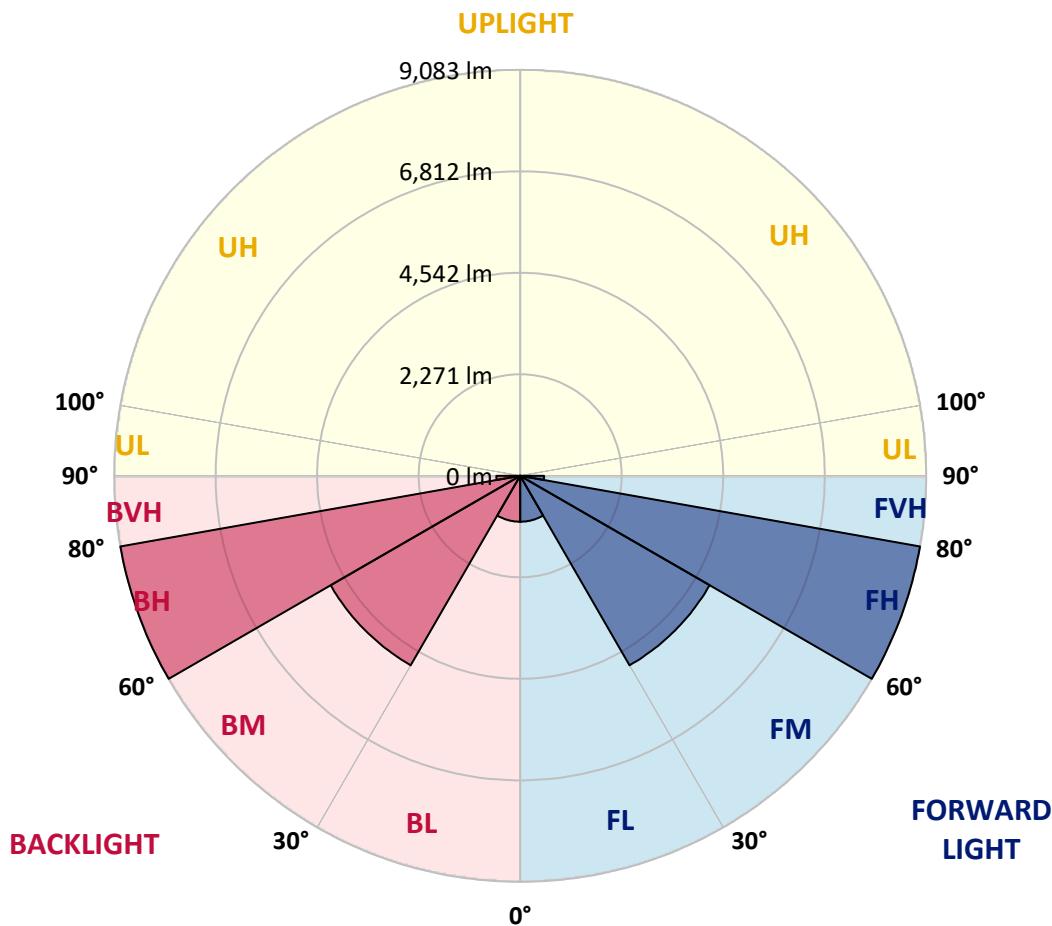
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.9	3.3			
FM (30°-60°)	4895.5	15.8			
FH (60°-80°)	9083.2	29.2			G4/12000
FVH (80°-90°)	533.4	1.7			G4/750
BL (0°-30°)	1026.9	3.3	B3/2500		
BM (30°-60°)	4895.5	15.8	B3/5000		
BH (60°-80°)	9083.2	29.2	B5		G4/12000
BVH (80°-90°)	533.4	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°	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5	2561.5
2.5°	2537.9	2543.8	2532.0	2532.0	2532.0	2526.1	2532.0	2526.1	2532.0	2537.9	2537.9
5°	2514.2	2514.2	2502.4	2502.4	2502.4	2496.5	2502.4	2502.4	2508.3	2514.2	2514.2
7.5°	2461.0	2461.0	2455.1	2449.1	2443.2	2443.2	2449.1	2449.1	2455.1	2461.0	2461.0
10°	2431.4	2425.5	2413.7	2395.9	2390.0	2384.1	2395.9	2407.7	2425.5	2443.2	2437.3
12.5°	2419.6	2413.7	2390.0	2372.2	2360.4	2366.3	2378.2	2390.0	2419.6	2437.3	2431.4
15°	2431.4	2419.6	2390.0	2360.4	2366.3	2378.2	2390.0	2390.0	2425.5	2443.2	2443.2
17.5°	2431.4	2425.5	2390.0	2366.3	2372.2	2390.0	2395.9	2390.0	2419.6	2449.1	2449.1
20°	2437.3	2437.3	2390.0	2372.2	2378.2	2395.9	2401.8	2395.9	2419.6	2455.1	2455.1
22.5°	2449.1	2443.2	2395.9	2384.1	2395.9	2407.7	2413.7	2407.7	2431.4	2461.0	2466.9
25°	2472.8	2461.0	2419.6	2413.7	2437.3	2455.1	2455.1	2443.2	2455.1	2484.6	2484.6
27.5°	2502.4	2496.5	2449.1	2449.1	2478.7	2514.2	2496.5	2472.8	2484.6	2514.2	2514.2
30°	2555.6	2549.7	2502.4	2502.4	2543.8	2585.2	2543.8	2514.2	2532.0	2561.5	2567.5
32.5°	2632.5	2632.5	2591.1	2579.3	2650.3	2668.0	2650.3	2591.1	2603.0	2644.4	2644.4
35°	2762.7	2750.9	2709.4	2703.5	2774.5	2768.6	2762.7	2709.4	2721.3	2768.6	2768.6
37.5°	2934.2	2928.3	2892.8	2875.1	2910.6	2886.9	2898.8	2875.1	2904.7	2940.2	2946.1
40°	3153.1	3147.2	3117.6	3094.0	3105.8	3070.3	3082.1	3094.0	3123.6	3147.2	3153.1
42.5°	3425.3	3425.3	3395.7	3354.3	3336.5	3318.8	3318.8	3342.4	3372.0	3401.6	3401.6
45°	3762.5	3762.5	3727.0	3685.6	3632.3	3602.7	3614.6	3638.2	3673.7	3709.2	3721.0
47.5°	4158.8	4158.8	4111.5	4070.1	4016.8	3981.3	3981.3	3993.2	4046.4	4076.0	4093.7
50°	4602.5	4584.8	4537.4	4496.0	4466.4	4419.1	4425.0	4419.1	4466.4	4507.9	4519.7
52.5°	5063.9	5058.0	5010.7	4998.9	5016.6	4993.0	4993.0	4933.8	4951.5	4975.2	4969.3
55°	5637.8	5620.0	5578.6	5602.3	5673.3	5708.8	5696.9	5602.3	5549.0	5560.9	5555.0
57.5°	6264.9	6247.1	6235.3	6306.3	6466.0	6613.9	6584.3	6365.4	6264.9	6270.8	6276.7
60°	6903.8	6903.8	6939.3	7116.7	7459.8	7702.4	7613.7	7246.9	7069.4	7033.9	7022.1
62.5°	7560.4	7578.2	7655.1	7950.9	8477.4	8879.6	8654.8	8134.3	7868.0	7797.0	7773.4
65°	8323.6	8341.3	8453.7	8820.5	9518.6	9997.7	9613.2	9122.2	8749.5	8601.6	8577.9
67.5°	9429.8	9441.6	9530.4	9885.3	10542.0	10926.5	10530.2	10092.4	9690.1	9518.6	9506.7
70°	10423.7	10435.5	10512.4	10979.8	11583.2	11719.2	11281.5	10725.4	10305.4	10169.3	10145.6
72.5°	10198.9	10240.3	10494.7	11222.3	12151.1	12328.6	11405.7	10571.6	9897.2	9672.4	9601.4
75°	8554.3	8619.3	9021.6	10116.0	11595.0	12097.8	10672.1	9139.9	8134.3	7702.4	7590.0
77.5°	4993.0	5235.5	5927.6	7329.7	9441.6	10465.1	8790.9	6690.8	4998.9	4289.0	4052.3
80°	1366.6	1496.7	1999.5	3372.0	5921.7	7329.7	5608.2	3070.3	1656.4	1242.3	1153.6
82.5°	431.9	573.8	727.6	970.2	2324.9	3863.0	2082.4	905.1	709.9	585.7	520.6
85°	230.7	248.5	408.2	473.3	698.1	1082.6	644.8	473.3	425.9	313.5	295.8
87.5°	118.3	124.2	230.7	230.7	307.6	254.4	278.0	254.4	242.5	153.8	136.1
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)