

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: P236721

Luminaire Tested: **ARCH-L-AF72-280-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-280-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 30057.2 lumens
Efficiency: N/A
Efficacy: 107.7 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

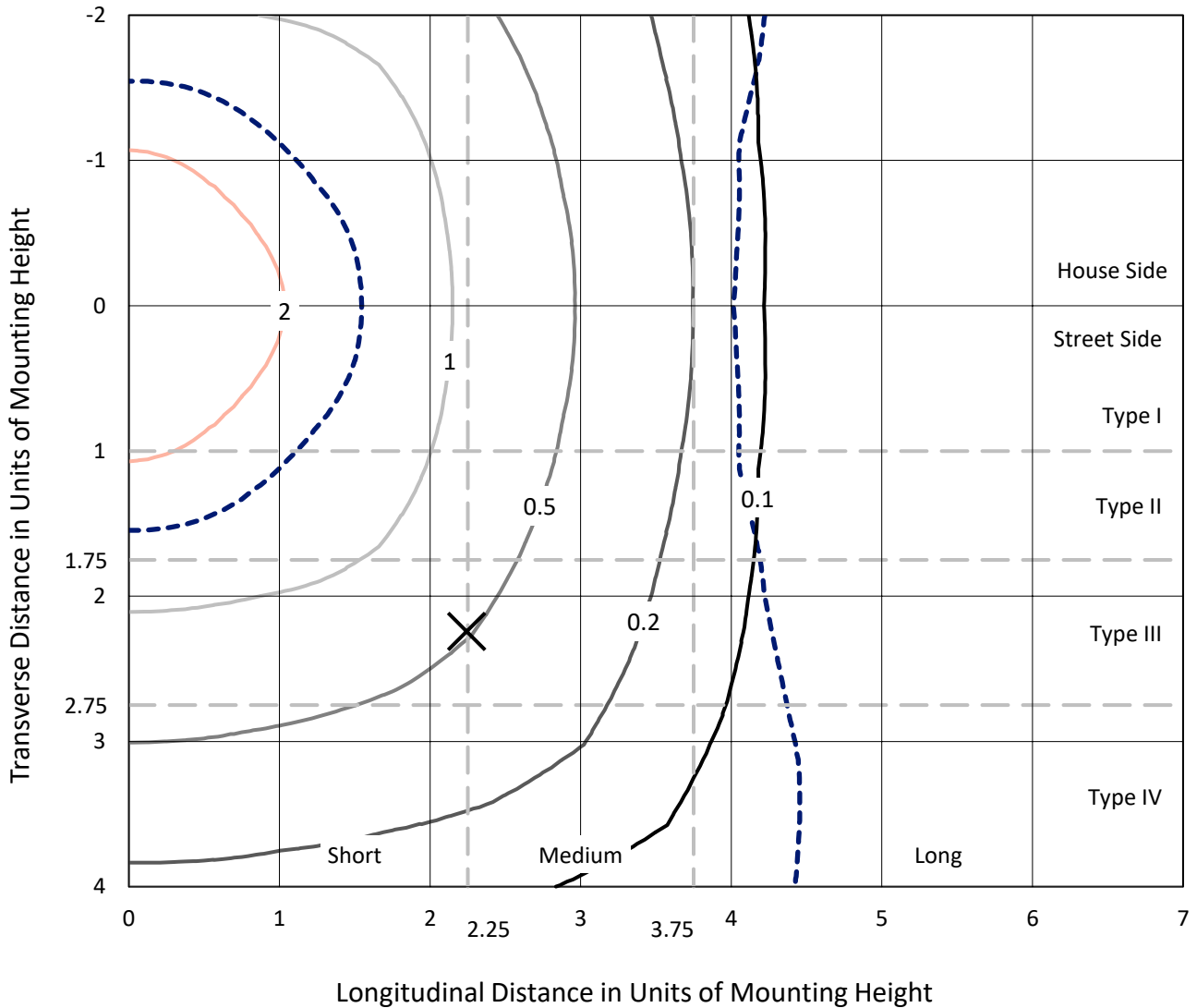
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

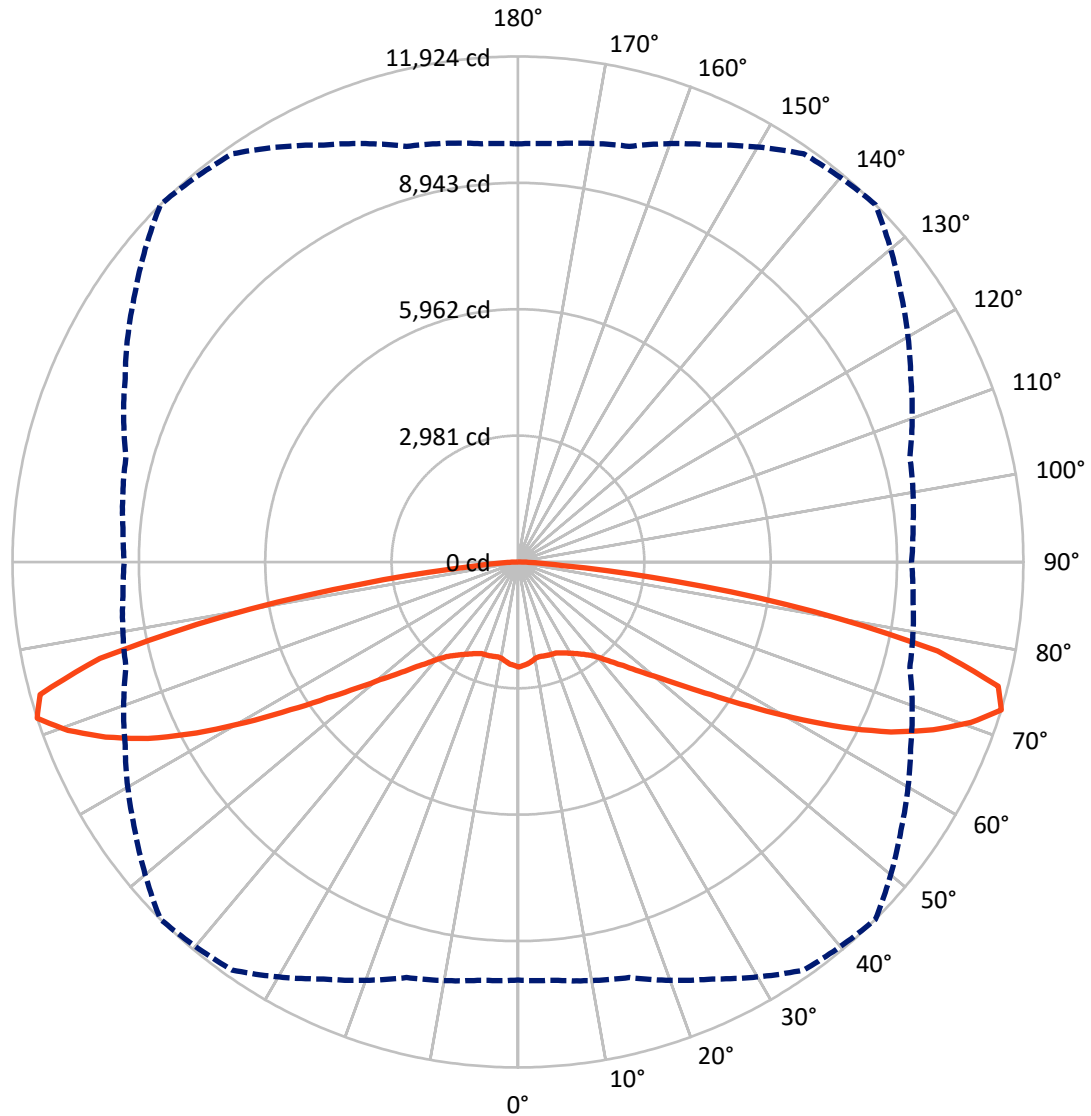
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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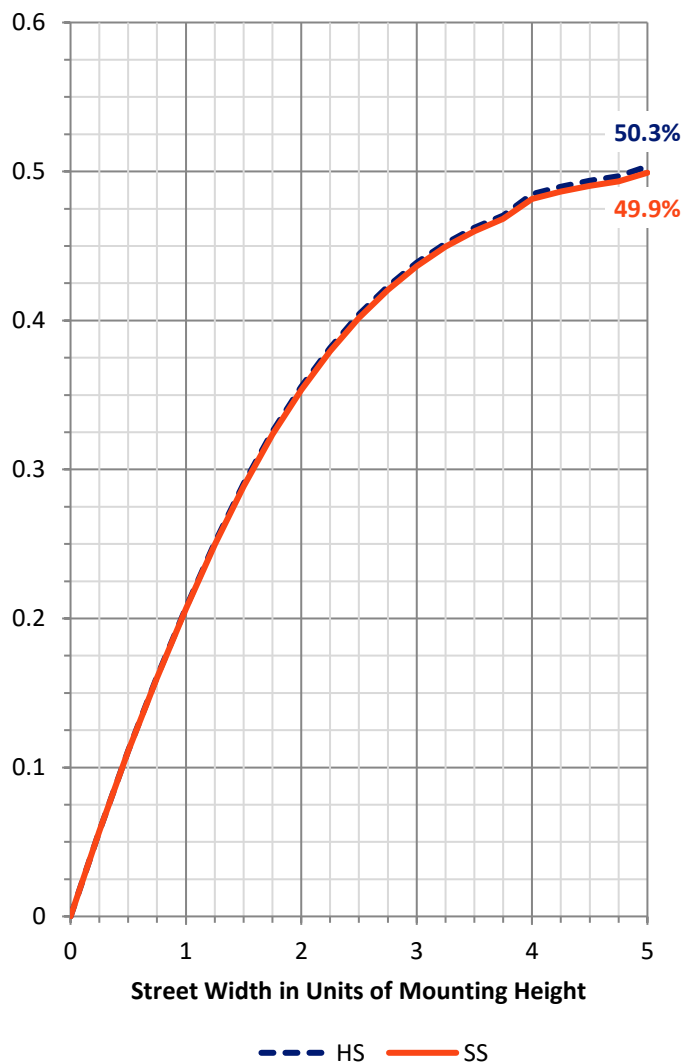
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15028.6	0.0	15028.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15028.6	0.0	15028.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30057.2	0.0	30057.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	0.8
10°-20°	657.7	2.2
20°-30°	1100.6	3.7
30°-40°	1691.1	5.6
40°-50°	2800.1	9.3
50°-60°	4978.1	16.6
60°-70°	8709.0	29.0
70°-80°	8860.7	29.5
80°-90°	1031.8	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°	30057.2	100.0
0°-180°	30057.2	100.0

Coefficient of Utilization



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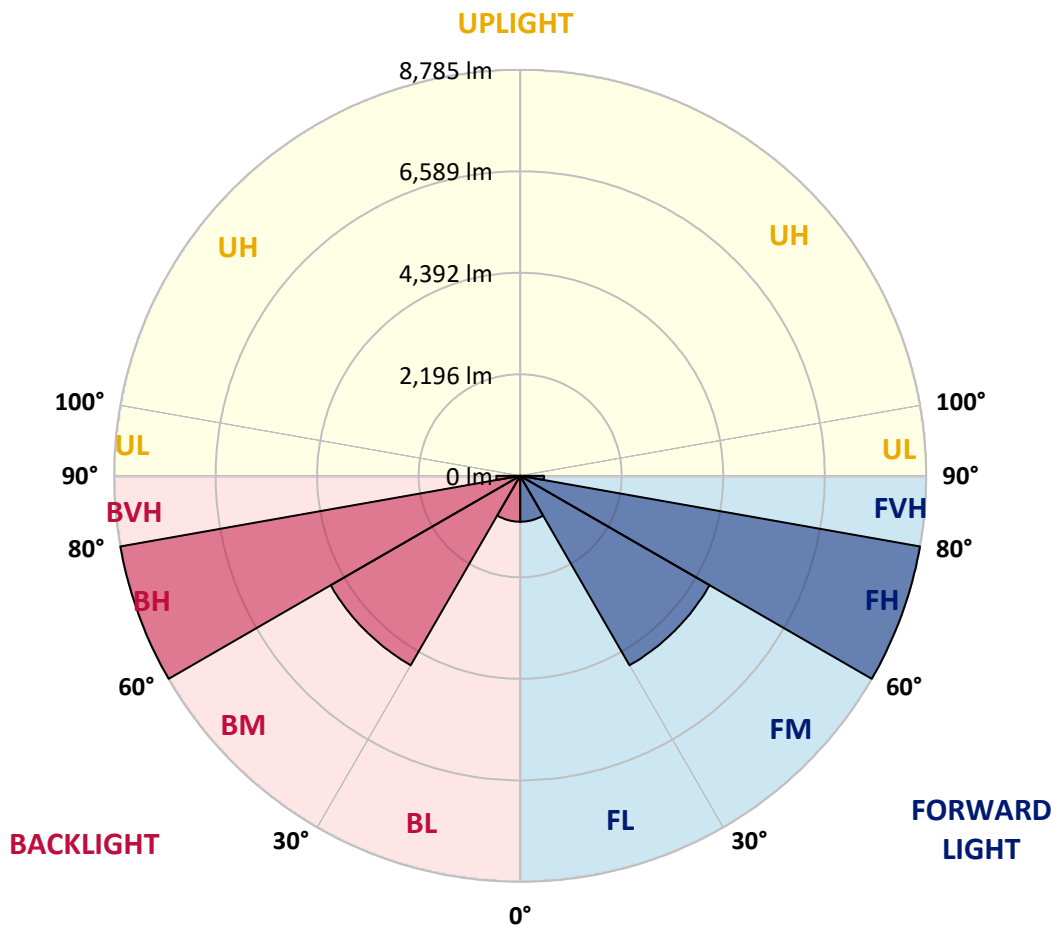
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.2	3.3			
FM (30°-60°)	4734.7	15.8			
FH (60°-80°)	8784.9	29.2			G4/12000
FVH (80°-90°)	515.9	1.7			G4/750
BL (0°-30°)	993.2	3.3	B2/1000		
BM (30°-60°)	4734.7	15.8	B3/5000		
BH (60°-80°)	8784.9	29.2	B5		G4/12000
BVH (80°-90°)	515.9	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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2454.5	2460.3	2448.8	2448.8	2448.8	2443.0	2448.8	2443.0	2448.8	2454.5	2454.5
5°	2431.7	2431.7	2420.2	2420.2	2420.2	2414.5	2420.2	2420.2	2425.9	2431.7	2431.7
7.5°	2380.1	2380.1	2374.4	2368.7	2363.0	2363.0	2368.7	2368.7	2374.4	2380.1	2380.1
10°	2351.6	2345.8	2334.4	2317.2	2311.5	2305.8	2317.2	2328.7	2345.8	2363.0	2357.3
12.5°	2340.2	2334.4	2311.5	2294.3	2282.9	2288.7	2300.0	2311.5	2340.2	2357.3	2351.6
15°	2351.6	2340.2	2311.5	2282.9	2288.7	2300.0	2311.5	2311.5	2345.8	2363.0	2363.0
17.5°	2351.6	2345.8	2311.5	2288.7	2294.3	2311.5	2317.2	2311.5	2340.2	2368.7	2368.7
20°	2357.3	2357.3	2311.5	2294.3	2300.0	2317.2	2323.0	2317.2	2340.2	2374.4	2374.4
22.5°	2368.7	2363.0	2317.2	2305.8	2317.2	2328.7	2334.4	2328.7	2351.6	2380.1	2385.9
25°	2391.5	2380.1	2340.2	2334.4	2357.3	2374.4	2374.4	2363.0	2374.4	2403.0	2403.0
27.5°	2420.2	2414.5	2368.7	2368.7	2397.3	2431.7	2414.5	2391.5	2403.0	2431.7	2431.7
30°	2471.7	2466.0	2420.2	2420.2	2460.3	2500.3	2460.3	2431.7	2448.8	2477.5	2483.1
32.5°	2546.1	2546.1	2506.0	2494.6	2563.2	2580.3	2563.2	2506.0	2517.5	2557.5	2557.5
35°	2671.9	2660.5	2620.5	2614.7	2683.4	2677.6	2671.9	2620.5	2631.9	2677.6	2677.6
37.5°	2837.9	2832.1	2797.8	2780.6	2814.9	2792.1	2803.6	2780.6	2809.3	2843.6	2849.3
40°	3049.5	3043.9	3015.2	2992.4	3003.7	2969.4	2980.9	2992.4	3020.9	3043.9	3049.5
42.5°	3312.7	3312.7	3284.2	3244.1	3227.0	3209.8	3209.8	3232.7	3261.3	3289.9	3289.9
45°	3638.9	3638.9	3604.6	3564.5	3513.0	3484.4	3495.9	3518.7	3553.1	3587.4	3598.8
47.5°	4022.3	4022.3	3976.5	3936.4	3884.9	3850.7	3850.7	3862.0	3913.5	3942.1	3959.3
50°	4451.3	4434.2	4388.4	4348.3	4319.8	4274.0	4279.6	4274.0	4319.8	4359.8	4371.3
52.5°	4897.6	4891.9	4846.0	4834.7	4851.8	4828.9	4828.9	4771.8	4789.0	4811.8	4806.1
55°	5452.6	5435.4	5395.3	5418.2	5486.9	5521.3	5509.8	5418.2	5366.9	5378.2	5372.5
57.5°	6059.1	6041.9	6030.4	6099.2	6253.6	6396.7	6368.0	6156.3	6059.1	6064.8	6070.6
60°	6677.1	6677.1	6711.4	6883.0	7214.8	7449.4	7363.5	7008.9	6837.2	6802.9	6791.4
62.5°	7312.0	7329.2	7403.6	7689.6	8199.0	8588.0	8370.6	7867.1	7609.6	7541.0	7518.0
65°	8050.1	8067.3	8176.1	8530.8	9205.8	9669.3	9297.4	8822.5	8462.1	8319.1	8296.2
67.5°	9120.1	9131.6	9217.3	9560.6	10195.7	10567.7	10184.3	9760.9	9371.8	9205.8	9194.5
70°	10081.4	10092.8	10167.1	10619.1	11202.7	11334.3	10910.9	10373.1	9966.8	9835.3	9812.3
72.5°	9863.9	9904.0	10149.9	10853.7	11751.9	11923.6	11031.1	10224.4	9572.1	9354.7	9286.1
75°	8273.3	8336.3	8725.3	9783.7	11214.2	11700.5	10321.6	8839.7	7867.1	7449.4	7340.7
77.5°	4828.9	5063.5	5733.0	7089.0	9131.6	10121.3	8502.1	6471.0	4834.7	4148.1	3919.2
80°	1321.7	1447.5	1933.9	3261.3	5727.3	7089.0	5423.9	2969.4	1602.1	1201.6	1115.6
82.5°	417.7	555.0	703.7	938.3	2248.5	3736.1	2013.9	875.3	686.5	566.4	503.4
85°	223.1	240.3	394.8	457.7	675.1	1047.0	623.7	457.7	411.9	303.2	286.0
87.5°	114.4	120.1	223.1	223.1	297.5	246.1	268.9	246.1	234.6	148.8	131.5
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)