

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: P400064

Luminaire Tested: **ARCH-L-PA3-230-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400064
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-PA3-230-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29791 lumens
Efficiency: N/A
Efficacy: 130.1 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

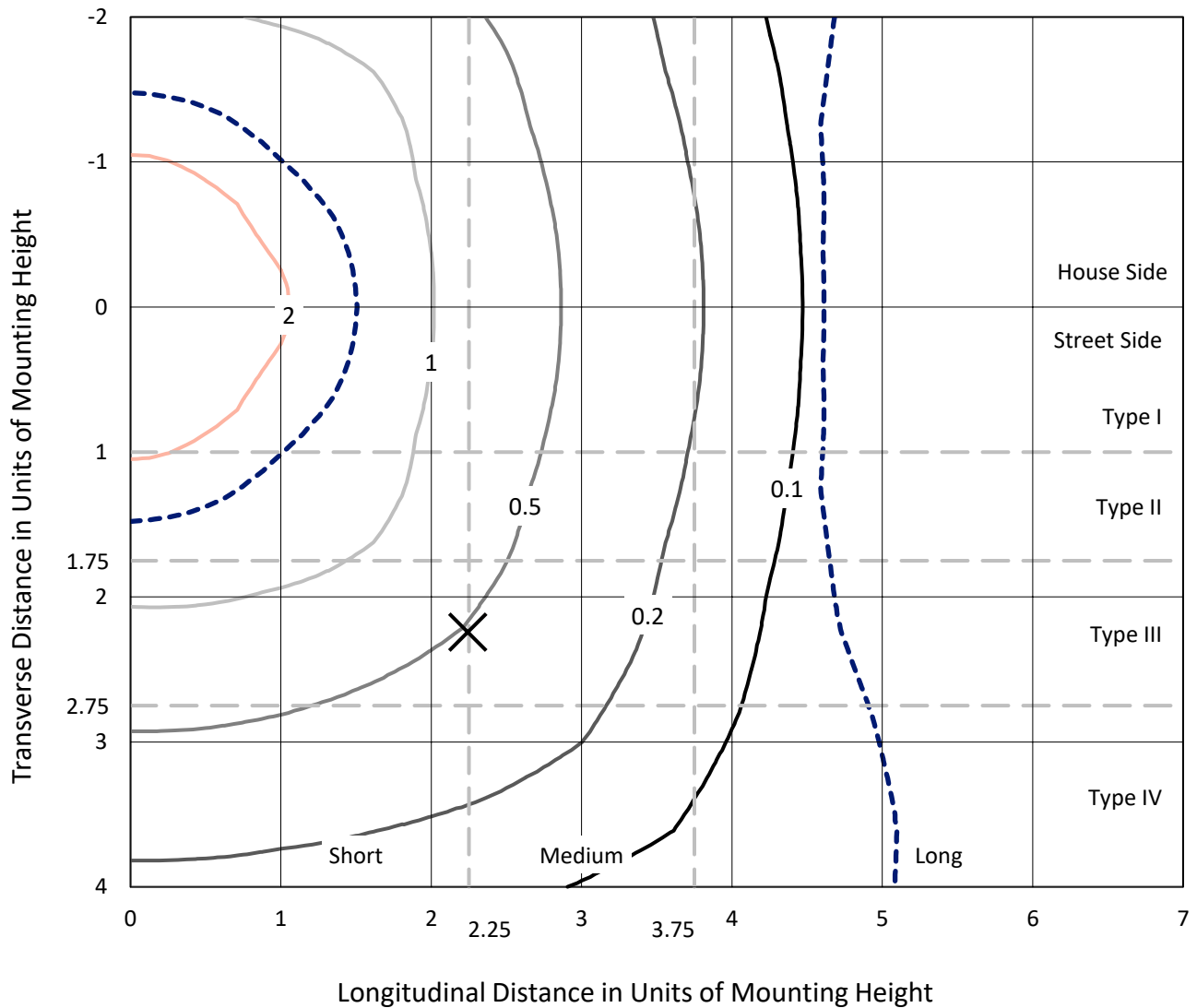
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

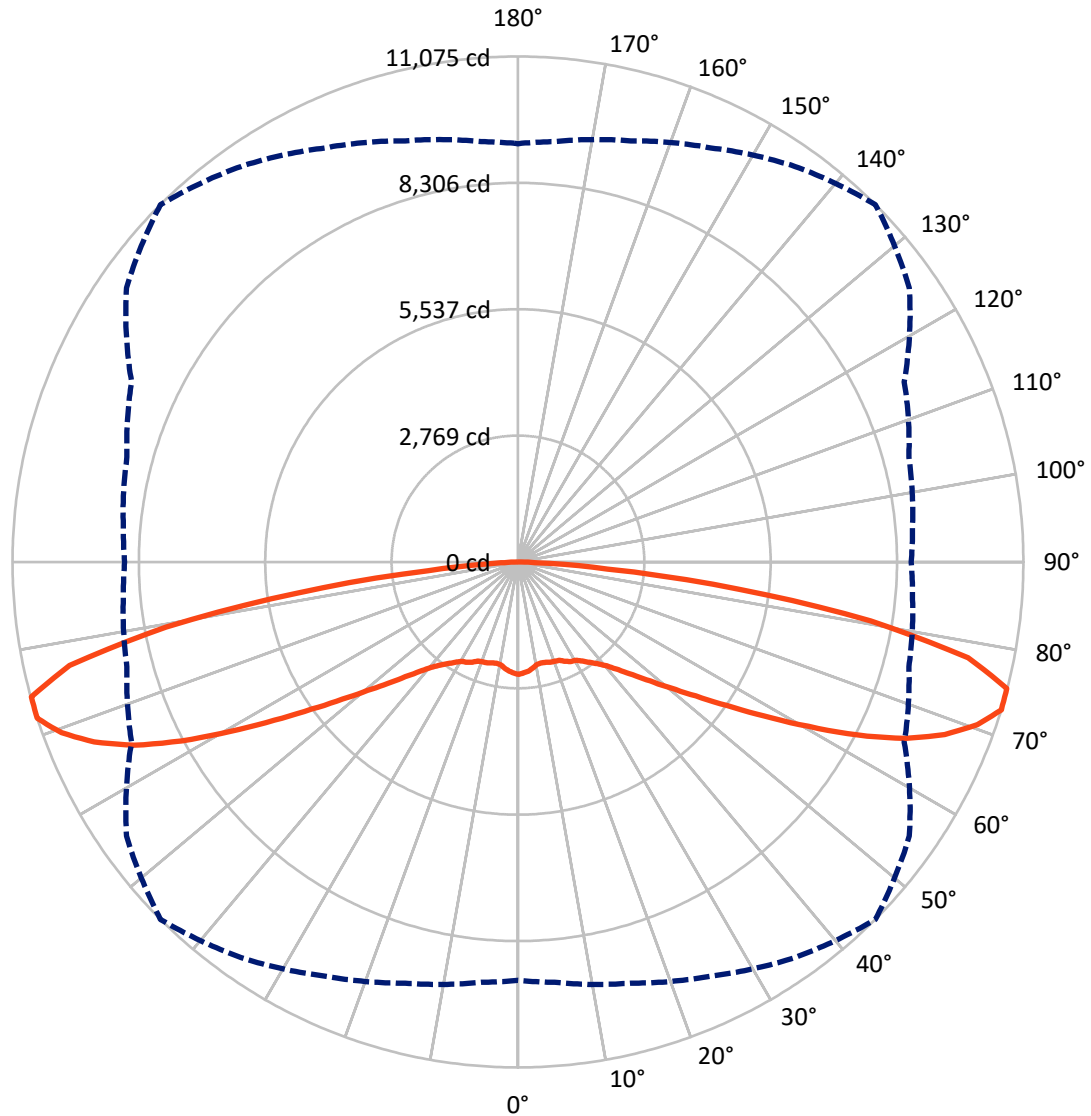
✕ Max cd
 - - - 1/2 Max cd



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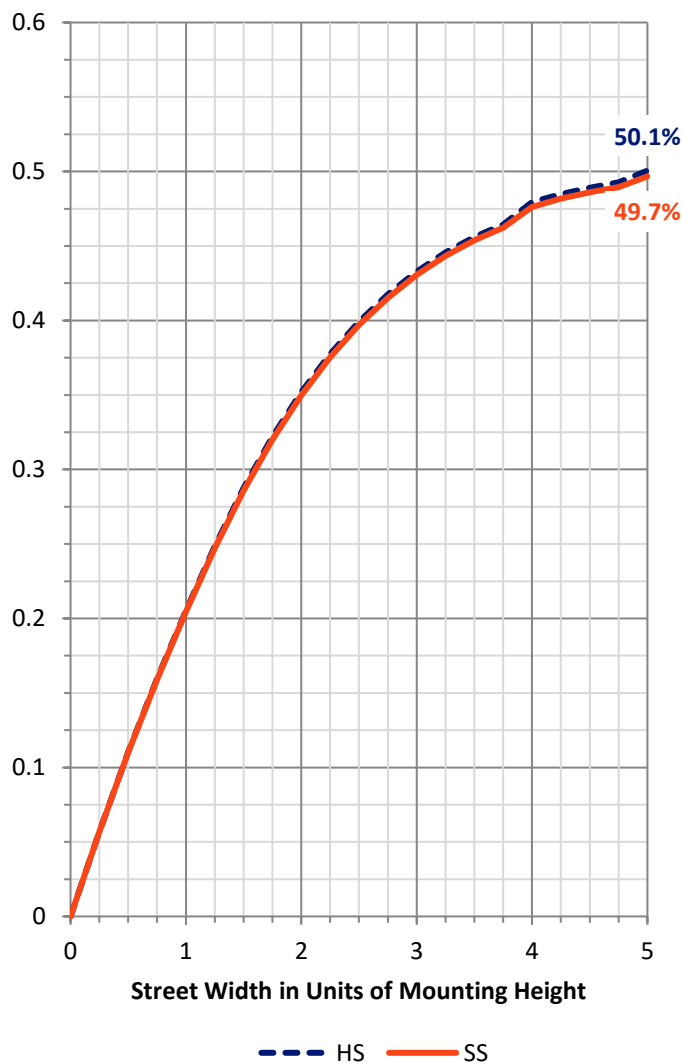
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14895.5	0.0	14895.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14895.5	0.0	14895.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29791.0	0.0	29791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	0.8
10°-20°	656.2	2.2
20°-30°	1114.9	3.7
30°-40°	1700.6	5.7
40°-50°	2800.2	9.4
50°-60°	4890.0	16.4
60°-70°	8198.2	27.5
70°-80°	8773.8	29.5
80°-90°	1431.0	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°	29791.0	100.0
0°-180°	29791.0	100.0

Coefficient of Utilization



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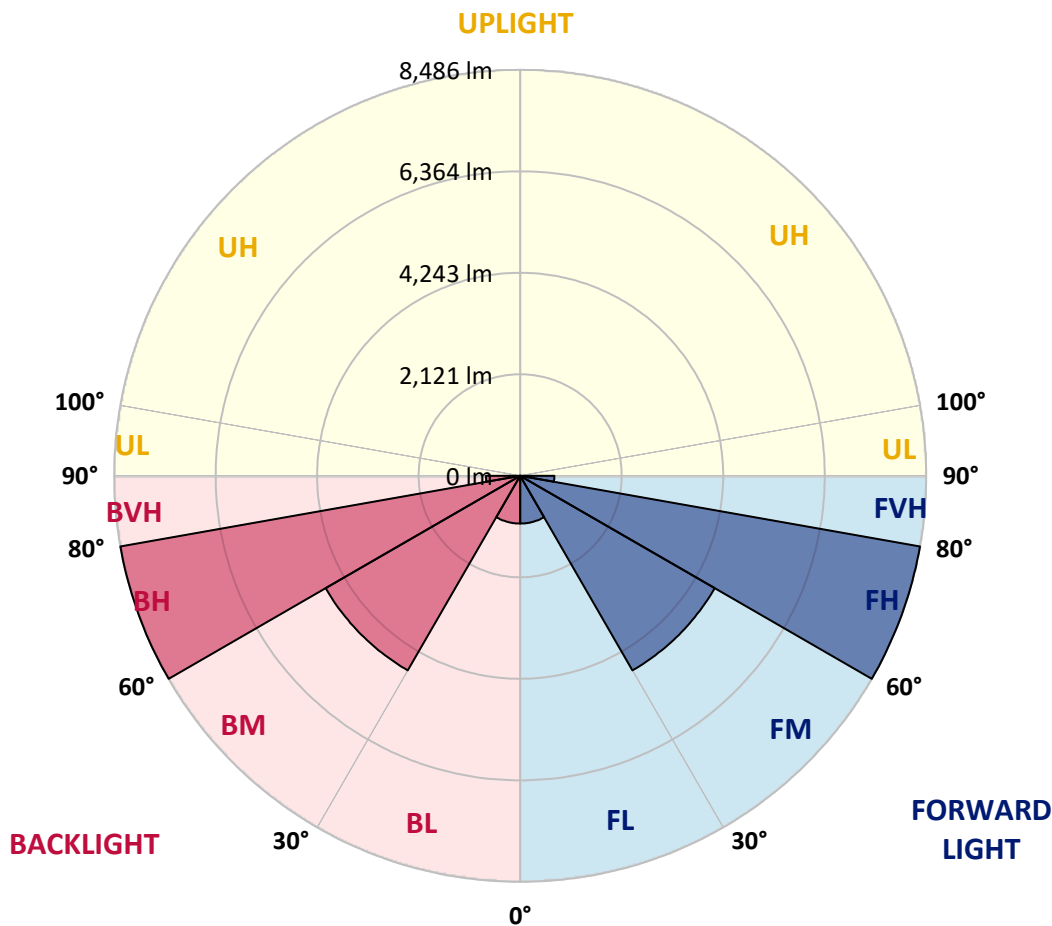
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.6	3.4			
FM (30°-60°)	4695.4	15.8			
FH (60°-80°)	8486.0	28.5			G4/12000
FVH (80°-90°)	715.5	2.4			G4/750
BL (0°-30°)	998.6	3.4	B2/1000		
BM (30°-60°)	4695.4	15.8	B3/5000		
BH (60°-80°)	8486.0	28.5	B5		G4/12000
BVH (80°-90°)	715.5	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°	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2	2465.2
2.5°	2450.0	2450.0	2450.0	2446.2	2438.6	2434.8	2427.2	2431.0	2431.0	2431.0	2431.0
5°	2419.6	2419.6	2415.8	2412.0	2404.4	2400.6	2393.0	2400.6	2400.6	2400.6	2400.6
7.5°	2362.5	2366.3	2366.3	2362.5	2351.1	2347.3	2335.9	2339.7	2339.7	2343.5	2339.7
10°	2332.1	2332.1	2328.3	2309.3	2290.2	2282.6	2278.8	2290.2	2301.7	2313.1	2313.1
12.5°	2332.1	2332.1	2324.5	2294.0	2267.4	2267.4	2267.4	2282.6	2305.5	2328.3	2332.1
15°	2343.5	2343.5	2328.3	2294.0	2278.8	2282.6	2282.6	2297.8	2324.5	2354.9	2358.7
17.5°	2351.1	2351.1	2332.1	2297.8	2297.8	2309.3	2301.7	2313.1	2339.7	2373.9	2377.7
20°	2362.5	2362.5	2335.9	2309.3	2309.3	2320.7	2320.7	2332.1	2354.9	2389.2	2393.0
22.5°	2385.3	2381.5	2354.9	2332.1	2332.1	2339.7	2347.3	2362.5	2381.5	2412.0	2419.6
25°	2412.0	2412.0	2389.2	2385.3	2393.0	2412.0	2408.2	2404.4	2412.0	2438.6	2450.0
27.5°	2427.2	2427.2	2412.0	2423.4	2453.8	2469.0	2450.0	2434.8	2434.8	2461.4	2465.2
30°	2476.7	2472.8	2457.6	2465.2	2491.9	2499.5	2488.1	2469.0	2480.5	2510.9	2514.7
32.5°	2560.3	2560.3	2537.5	2537.5	2556.5	2587.0	2548.9	2537.5	2552.7	2587.0	2590.8
35°	2689.7	2689.7	2659.3	2644.0	2659.3	2701.1	2644.0	2640.2	2666.9	2704.9	2708.7
37.5°	2853.3	2853.3	2834.3	2796.2	2800.0	2826.7	2777.2	2773.4	2822.9	2864.7	2864.7
40°	3058.7	3070.1	3051.1	3005.5	2990.2	2994.0	2956.0	2959.8	3016.9	3066.3	3066.3
42.5°	3313.6	3321.2	3290.8	3256.5	3237.5	3226.1	3188.1	3195.7	3264.2	3328.8	3328.8
45°	3621.8	3625.6	3595.1	3553.3	3530.5	3522.9	3484.8	3503.8	3579.9	3648.4	3644.6
47.5°	3968.0	3971.8	3941.3	3899.5	3884.3	3895.7	3857.6	3857.6	3926.1	3983.2	3975.6
50°	4359.8	4367.4	4333.2	4314.2	4302.8	4333.2	4287.5	4245.7	4291.3	4348.4	4340.8
52.5°	4793.5	4812.5	4789.7	4797.3	4839.2	4877.2	4801.1	4709.8	4732.6	4770.7	4759.3
55°	5318.5	5341.3	5349.0	5375.6	5485.9	5550.6	5425.0	5272.9	5261.5	5265.3	5246.2
57.5°	5908.2	5923.4	5972.9	6033.7	6262.0	6364.7	6166.9	5904.4	5820.7	5771.2	5759.8
60°	6501.7	6528.3	6650.1	6775.6	7125.6	7312.0	7007.7	6566.4	6387.6	6296.2	6277.2
62.5°	7099.0	7152.2	7350.1	7563.1	8072.9	8350.6	7882.7	7243.5	6984.8	6870.7	6840.3
65°	7791.4	7856.0	8095.7	8365.8	8932.7	9324.5	8757.7	7943.5	7665.8	7513.7	7475.6
67.5°	8601.7	8670.2	8864.2	9164.8	9701.2	10085.4	9583.2	8658.8	8297.4	8103.3	8072.9
70°	9267.5	9328.3	9537.6	9841.9	10241.4	10678.9	10199.5	9229.4	8902.2	8765.3	8746.3
72.5°	9164.8	9244.6	9552.8	10009.3	10580.0	11074.6	10469.7	9339.8	8868.0	8677.8	8616.9
75°	8004.4	8091.9	8457.1	9282.7	10325.1	11063.1	10077.8	8605.5	8050.1	7890.3	7859.8
77.5°	5299.5	5383.2	5999.5	7300.6	9016.4	10081.6	8894.6	7209.3	6315.3	5931.0	5908.2
80°	2141.9	2248.4	2838.1	4219.1	6391.4	7837.0	6596.8	4614.7	3112.0	2510.9	2389.2
82.5°	498.4	593.5	863.6	1556.0	3271.8	4881.0	3557.1	1723.4	1000.6	711.4	639.1
85°	209.2	213.0	369.0	506.0	1023.4	1970.7	1164.1	627.7	509.8	372.8	365.2
87.5°	79.9	83.7	178.8	213.0	327.2	372.8	395.7	323.4	300.5	186.4	178.8
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)