

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: P400181

Luminaire Tested: **ARCH-L-PA3-240-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400181
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-PA3-240-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26875 lumens
Efficiency: N/A
Efficacy: 111.1 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

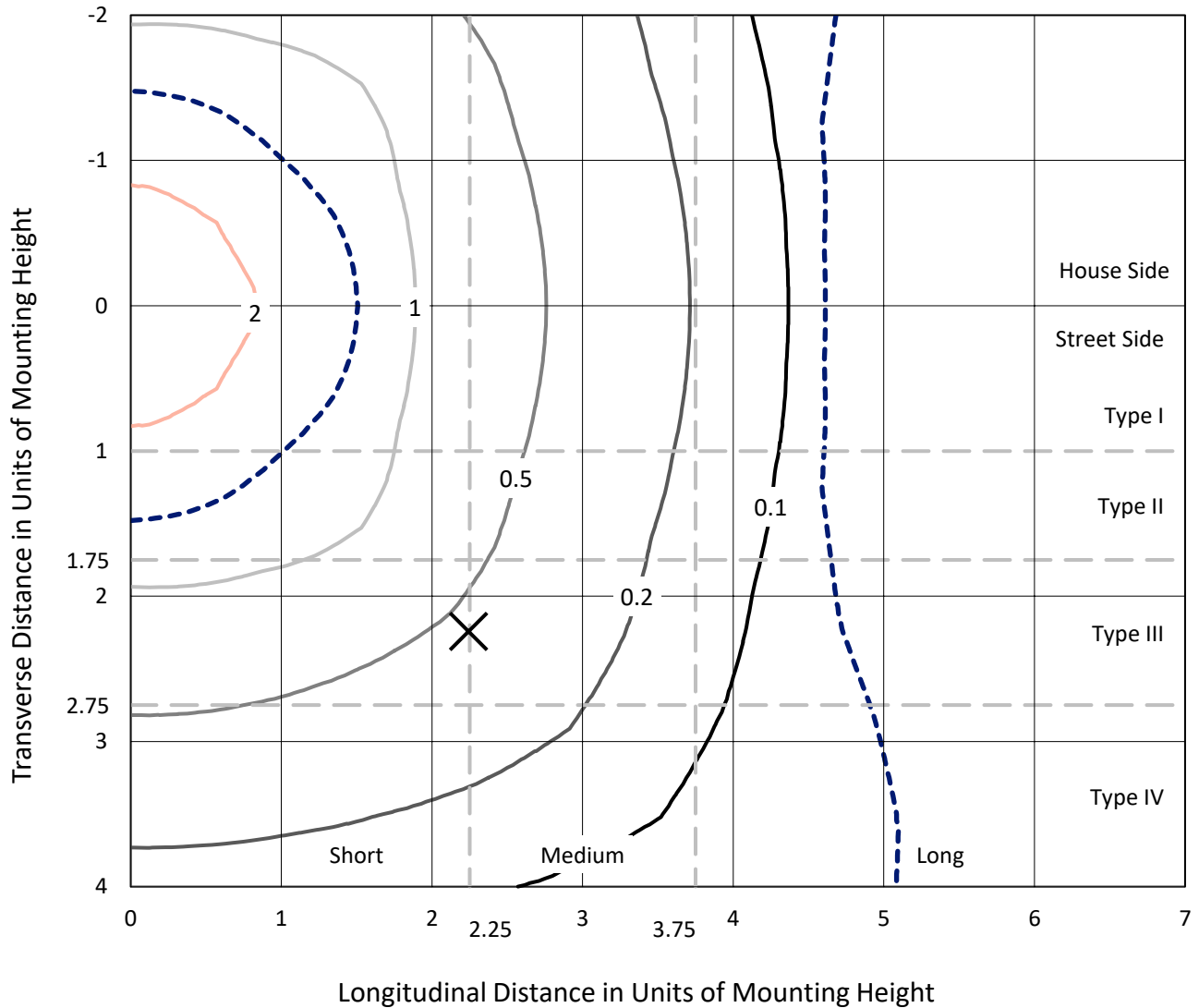
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

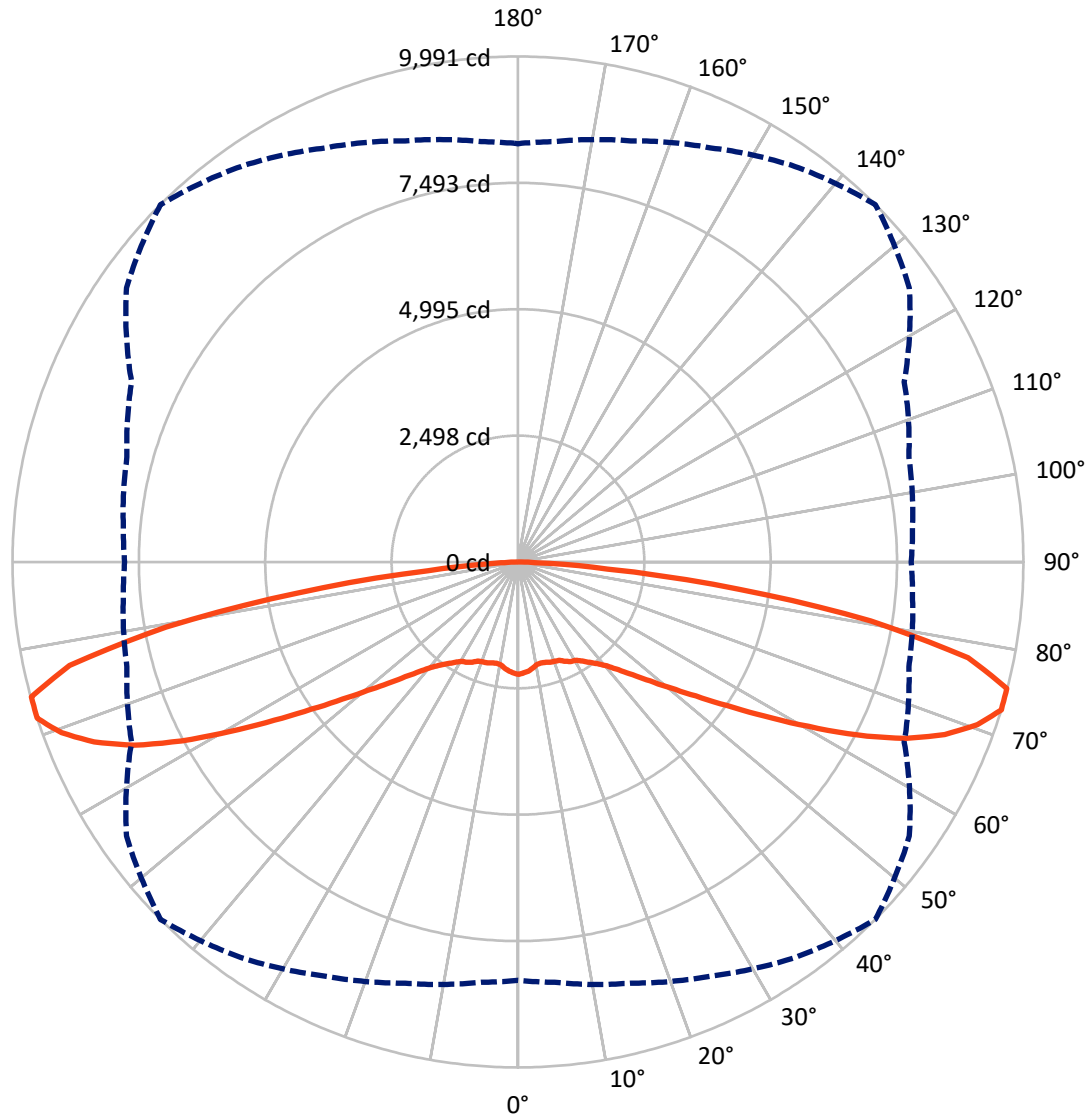
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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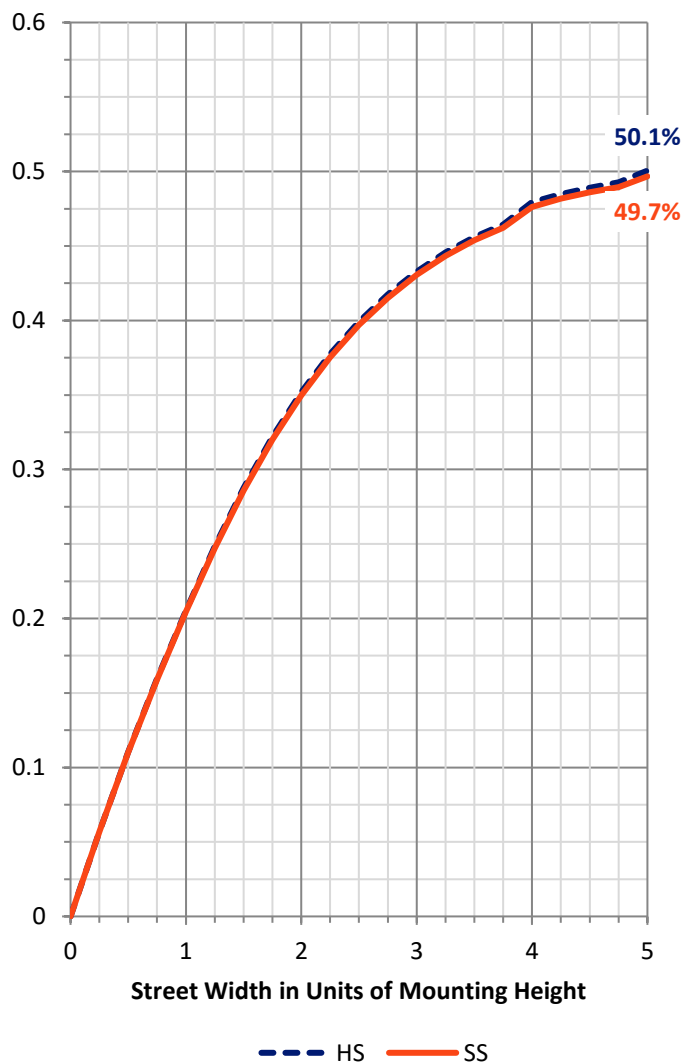
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13437.5	0.0	13437.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13437.5	0.0	13437.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26875.0	0.0	26875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	0.8
10°-20°	592.0	2.2
20°-30°	1005.8	3.7
30°-40°	1534.1	5.7
40°-50°	2526.1	9.4
50°-60°	4411.4	16.4
60°-70°	7395.8	27.5
70°-80°	7915.0	29.5
80°-90°	1290.9	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°	26875.0	100.0
0°-180°	26875.0	100.0

Coefficient of Utilization

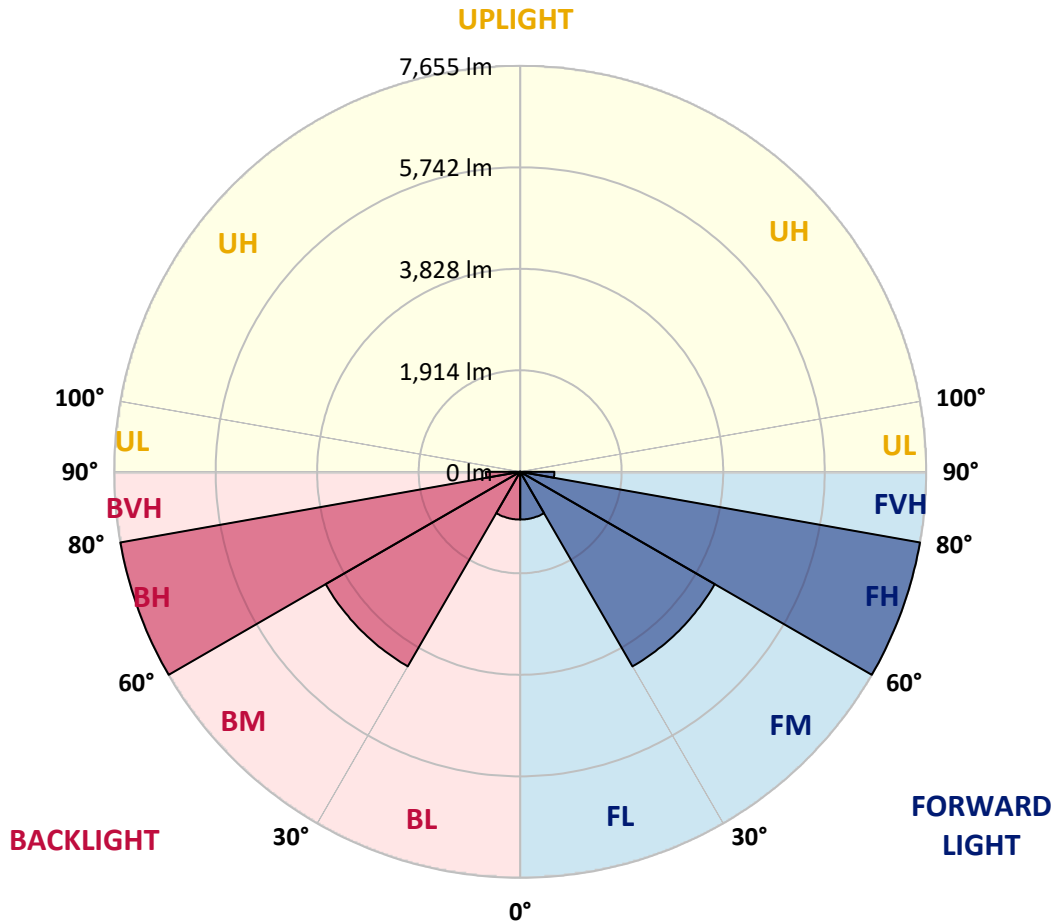


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.8	3.4			
FM (30°-60°)	4235.8	15.8			
FH (60°-80°)	7655.4	28.5			G4/12000
FVH (80°-90°)	645.5	2.4			G4/750
BL (0°-30°)	900.8	3.4	B2/1000		
BM (30°-60°)	4235.8	15.8	B3/5000		
BH (60°-80°)	7655.4	28.5	B5		G4/12000
BVH (80°-90°)	645.5	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°	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2210.2	2210.2	2210.2	2206.8	2199.9	2196.5	2189.6	2193.0	2193.0	2193.0	2193.0
5°	2182.8	2182.8	2179.3	2175.9	2169.0	2165.6	2158.7	2165.6	2165.6	2165.6	2165.6
7.5°	2131.3	2134.7	2134.7	2131.3	2121.0	2117.5	2107.2	2110.7	2110.7	2114.1	2110.7
10°	2103.8	2103.8	2100.4	2083.2	2066.1	2059.2	2055.8	2066.1	2076.4	2086.7	2086.7
12.5°	2103.8	2103.8	2097.0	2069.5	2045.5	2045.5	2045.5	2059.2	2079.8	2100.4	2103.8
15°	2114.1	2114.1	2100.4	2069.5	2055.8	2059.2	2059.2	2072.9	2097.0	2124.4	2127.8
17.5°	2121.0	2121.0	2103.8	2072.9	2072.9	2083.2	2076.4	2086.7	2110.7	2141.6	2145.0
20°	2131.3	2131.3	2107.2	2083.2	2083.2	2093.5	2093.5	2103.8	2124.4	2155.3	2158.7
22.5°	2151.9	2148.4	2124.4	2103.8	2103.8	2110.7	2117.5	2131.3	2148.4	2175.9	2182.8
25°	2175.9	2175.9	2155.3	2151.9	2158.7	2175.9	2172.5	2169.0	2175.9	2199.9	2210.2
27.5°	2189.6	2189.6	2175.9	2186.2	2213.6	2227.4	2210.2	2196.5	2196.5	2220.5	2223.9
30°	2234.2	2230.8	2217.1	2223.9	2248.0	2254.8	2244.5	2227.4	2237.7	2265.1	2268.6
32.5°	2309.7	2309.7	2289.1	2289.1	2306.3	2333.8	2299.4	2289.1	2302.9	2333.8	2337.2
35°	2426.4	2426.4	2399.0	2385.2	2399.0	2436.7	2385.2	2381.8	2405.8	2440.2	2443.6
37.5°	2574.0	2574.0	2556.8	2522.5	2526.0	2550.0	2505.4	2501.9	2546.5	2584.3	2584.3
40°	2759.3	2769.6	2752.5	2711.3	2697.6	2701.0	2666.7	2670.1	2721.6	2766.2	2766.2
42.5°	2989.3	2996.1	2968.7	2937.8	2920.6	2910.3	2876.0	2882.9	2944.7	3003.0	3003.0
45°	3267.3	3270.7	3243.2	3205.5	3184.9	3178.0	3143.7	3160.9	3229.5	3291.3	3287.9
47.5°	3579.6	3583.0	3555.6	3517.8	3504.1	3514.4	3480.0	3480.0	3541.8	3593.3	3586.4
50°	3933.1	3939.9	3909.0	3891.9	3881.6	3909.0	3867.9	3830.1	3871.3	3922.8	3915.9
52.5°	4324.3	4341.5	4320.9	4327.8	4365.5	4399.8	4331.2	4248.8	4269.4	4303.7	4293.4
55°	4797.9	4818.5	4825.4	4849.4	4948.9	5007.3	4894.0	4756.8	4746.5	4749.9	4732.7
57.5°	5329.9	5343.6	5388.2	5443.2	5649.1	5741.7	5563.3	5326.5	5251.0	5206.3	5196.0
60°	5865.3	5889.3	5999.1	6112.4	6428.1	6596.3	6321.7	5923.6	5762.3	5680.0	5662.8
62.5°	6404.1	6452.2	6630.6	6822.8	7282.7	7533.2	7111.1	6534.5	6301.2	6198.2	6170.7
65°	7028.7	7087.1	7303.3	7547.0	8058.3	8411.8	7900.5	7166.0	6915.5	6778.2	6743.9
67.5°	7759.8	7821.5	7996.6	8267.7	8751.6	9098.2	8645.2	7811.2	7485.2	7310.2	7282.7
70°	8360.4	8415.3	8604.0	8878.6	9238.9	9633.6	9201.2	8326.0	8030.9	7907.3	7890.2
72.5°	8267.7	8339.8	8617.8	9029.6	9544.4	9990.6	9444.9	8425.6	8000.0	7828.4	7773.5
75°	7220.9	7299.9	7629.3	8374.1	9314.4	9980.3	9091.4	7763.2	7262.1	7118.0	7090.5
77.5°	4780.8	4856.3	5412.3	6586.0	8133.8	9094.8	8024.0	6503.6	5697.1	5350.5	5329.9
80°	1932.2	2028.3	2560.3	3806.1	5765.8	7069.9	5951.1	4163.0	2807.4	2265.1	2155.3
82.5°	449.6	535.4	779.1	1403.7	2951.5	4403.3	3208.9	1554.7	902.6	641.8	576.6
85°	188.8	192.2	332.9	456.5	923.2	1777.8	1050.2	566.3	459.9	336.3	329.5
87.5°	72.1	75.5	161.3	192.2	295.2	336.3	356.9	291.7	271.1	168.2	161.3
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)