

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: P399650

Luminaire Tested: **ARCH-L-PA3-170-750-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399650
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-PA3-170-750-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26929 lumens
Efficiency: N/A
Efficacy: 155.7 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

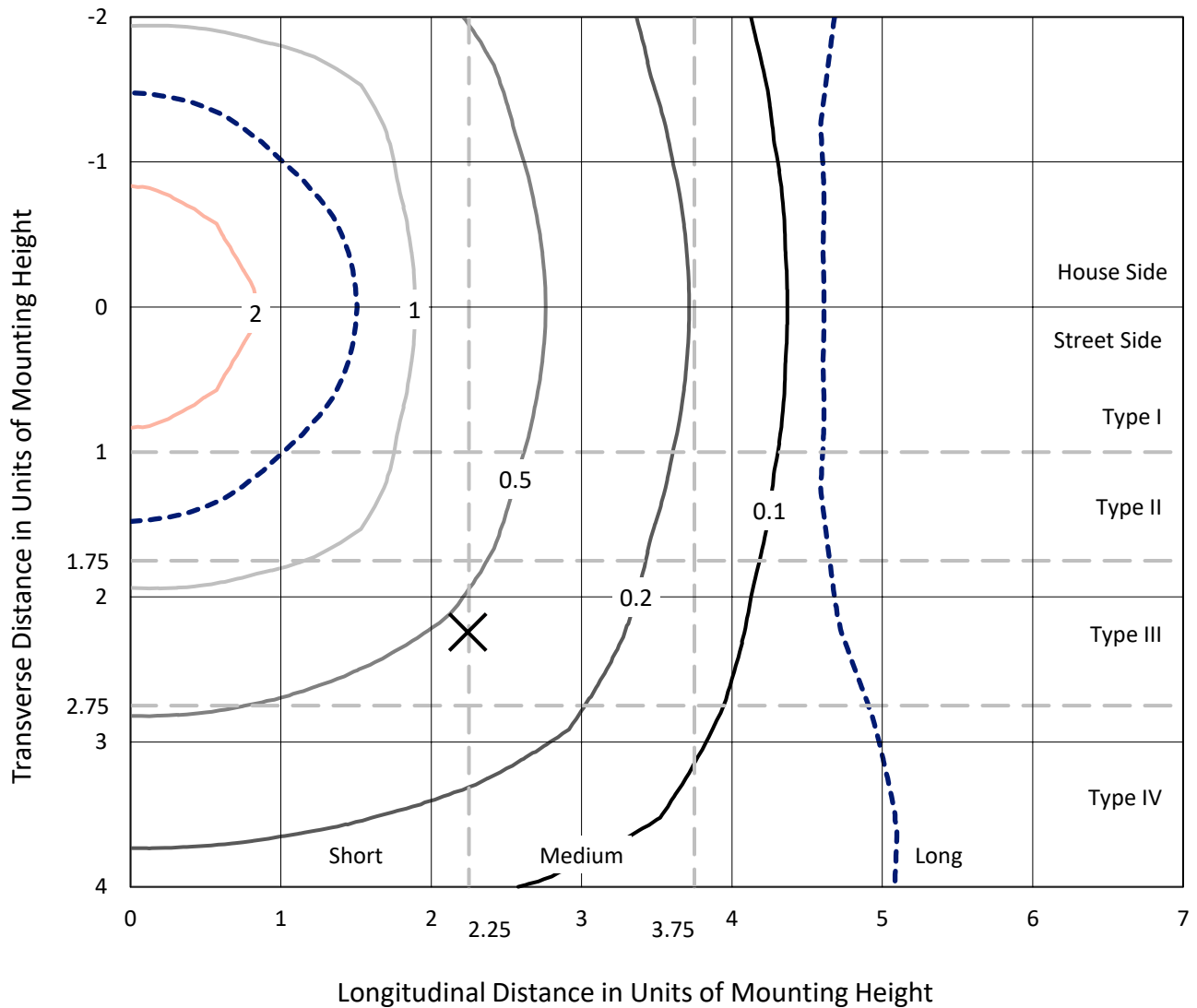
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

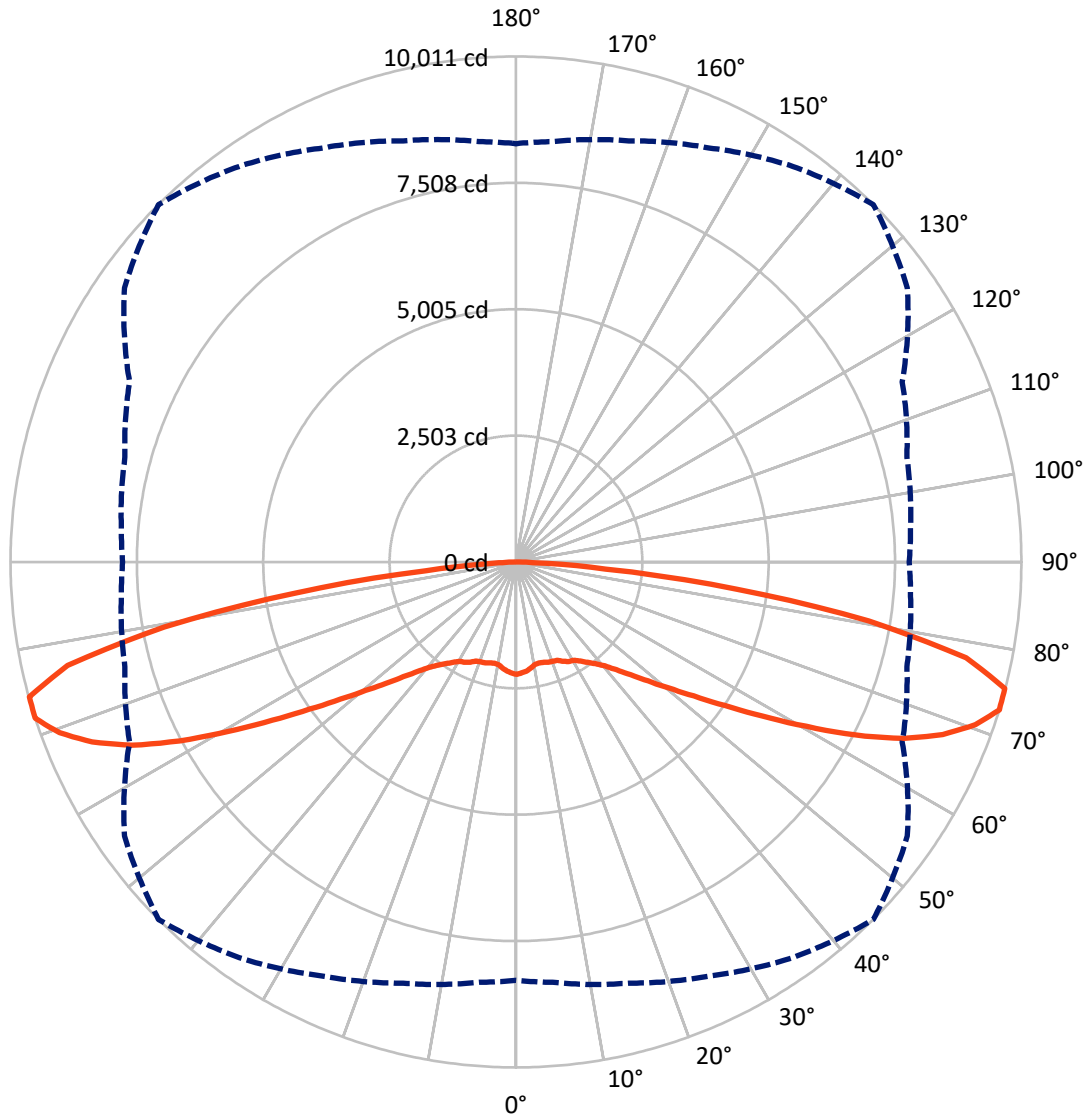
✕ Max cd
 - - - 1/2 Max cd



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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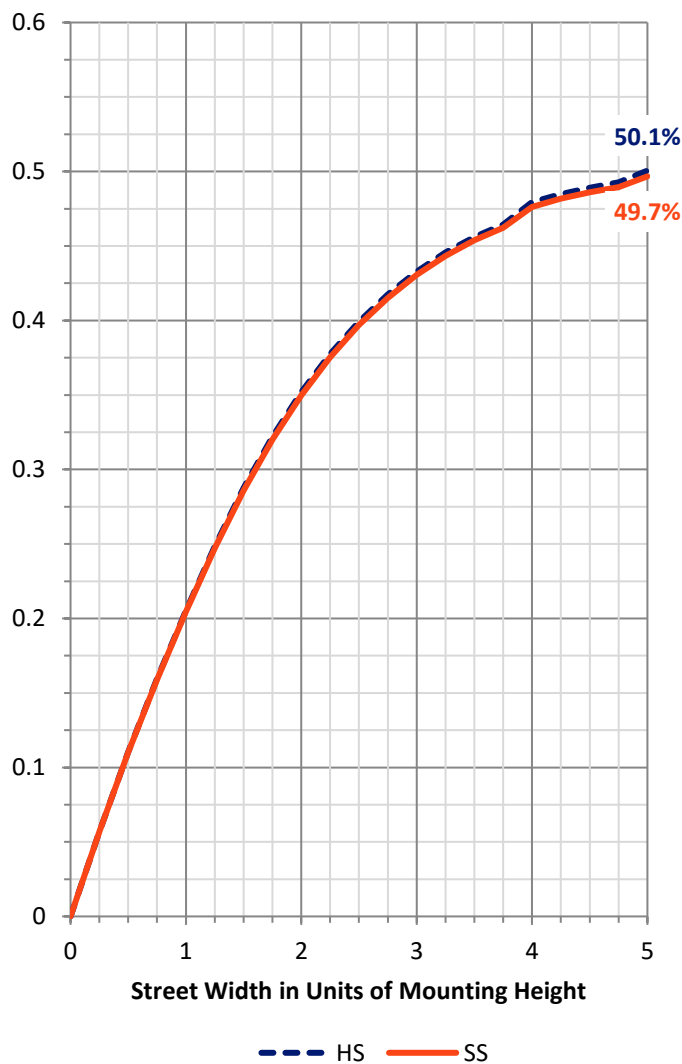
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13464.5	0.0	13464.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13464.5	0.0	13464.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26929.0	0.0	26929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	0.8
10°-20°	593.1	2.2
20°-30°	1007.8	3.7
30°-40°	1537.2	5.7
40°-50°	2531.2	9.4
50°-60°	4420.2	16.4
60°-70°	7410.6	27.5
70°-80°	7930.9	29.5
80°-90°	1293.5	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°	26929.0	100.0
0°-180°	26929.0	100.0

Coefficient of Utilization

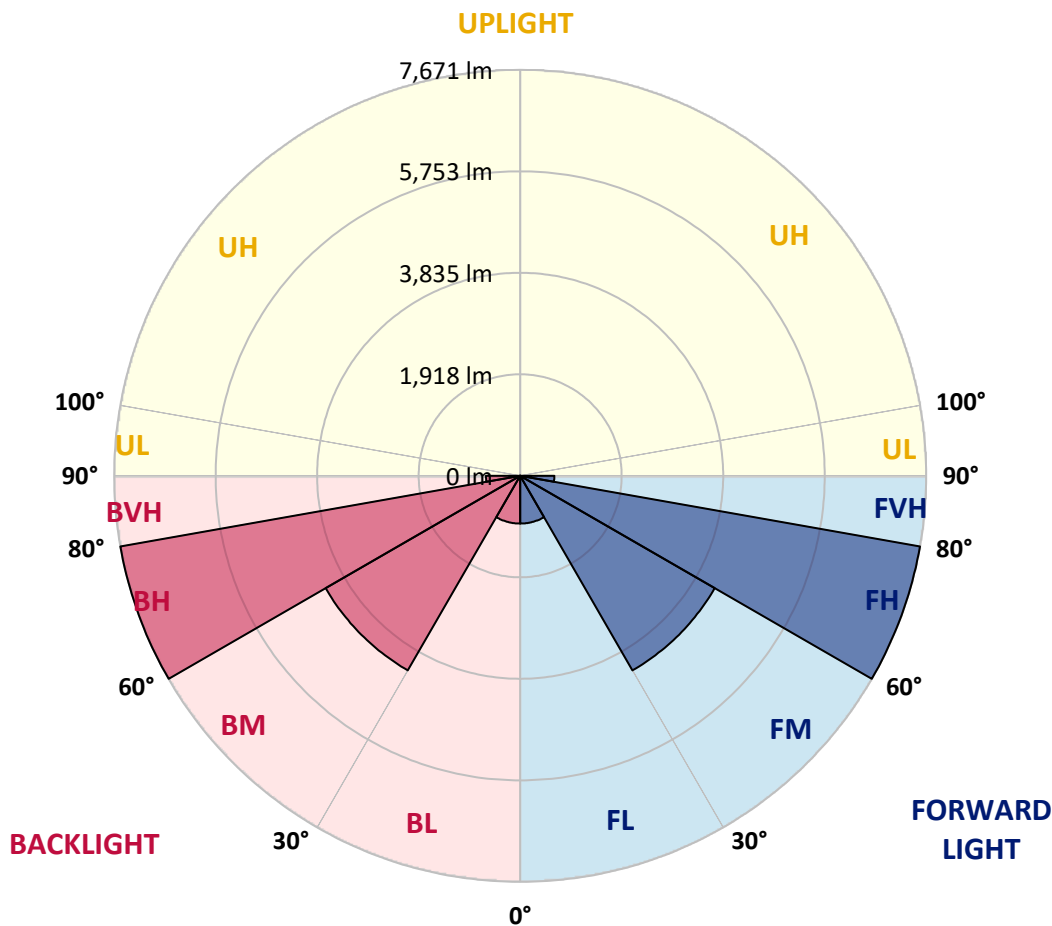


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.7	3.4			
FM (30°-60°)	4244.3	15.8			
FH (60°-80°)	7670.7	28.5			G4/12000
FVH (80°-90°)	646.8	2.4			G4/750
BL (0°-30°)	902.7	3.4	B2/1000		
BM (30°-60°)	4244.3	15.8	B3/5000		
BH (60°-80°)	7670.7	28.5	B5		G4/12000
BVH (80°-90°)	646.8	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°	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4	2228.4
2.5°	2214.6	2214.6	2214.6	2211.2	2204.3	2200.9	2194.0	2197.5	2197.5	2197.5	2197.5
5°	2187.1	2187.1	2183.7	2180.3	2173.4	2169.9	2163.1	2169.9	2169.9	2169.9	2169.9
7.5°	2135.6	2139.0	2139.0	2135.6	2125.2	2121.8	2111.5	2114.9	2114.9	2118.4	2114.9
10°	2108.0	2108.0	2104.6	2087.4	2070.2	2063.3	2059.9	2070.2	2080.5	2090.8	2090.8
12.5°	2108.0	2108.0	2101.2	2073.7	2049.6	2049.6	2049.6	2063.3	2084.0	2104.6	2108.0
15°	2118.4	2118.4	2104.6	2073.7	2059.9	2063.3	2063.3	2077.1	2101.2	2128.7	2132.1
17.5°	2125.2	2125.2	2108.0	2077.1	2077.1	2087.4	2080.5	2090.8	2114.9	2145.9	2149.3
20°	2135.6	2135.6	2111.5	2087.4	2087.4	2097.7	2097.7	2108.0	2128.7	2159.6	2163.1
22.5°	2156.2	2152.7	2128.7	2108.0	2108.0	2114.9	2121.8	2135.6	2152.7	2180.3	2187.1
25°	2180.3	2180.3	2159.6	2156.2	2163.1	2180.3	2176.8	2173.4	2180.3	2204.3	2214.6
27.5°	2194.0	2194.0	2180.3	2190.6	2218.1	2231.8	2214.6	2200.9	2200.9	2225.0	2228.4
30°	2238.7	2235.3	2221.5	2228.4	2252.5	2259.4	2249.0	2231.8	2242.2	2269.7	2273.1
32.5°	2314.4	2314.4	2293.7	2293.7	2310.9	2338.4	2304.1	2293.7	2307.5	2338.4	2341.9
35°	2431.3	2431.3	2403.8	2390.0	2403.8	2441.6	2390.0	2386.6	2410.7	2445.1	2448.5
37.5°	2579.2	2579.2	2562.0	2527.6	2531.0	2555.1	2510.4	2507.0	2551.7	2589.5	2589.5
40°	2764.9	2775.2	2758.0	2716.7	2703.0	2706.4	2672.0	2675.5	2727.0	2771.8	2771.8
42.5°	2995.3	3002.2	2974.6	2943.7	2926.5	2916.2	2881.8	2888.7	2950.6	3009.0	3009.0
45°	3273.8	3277.3	3249.8	3211.9	3191.3	3184.4	3150.0	3167.2	3236.0	3297.9	3294.5
47.5°	3586.8	3590.2	3562.7	3524.9	3511.1	3521.4	3487.0	3487.0	3548.9	3600.5	3593.6
50°	3941.0	3947.9	3916.9	3899.7	3889.4	3916.9	3875.6	3837.8	3879.1	3930.7	3923.8
52.5°	4333.0	4350.2	4329.6	4336.4	4374.3	4408.7	4339.9	4257.4	4278.0	4312.4	4302.1
55°	4807.6	4828.2	4835.1	4859.2	4958.9	5017.3	4903.9	4766.3	4756.0	4759.4	4742.2
57.5°	5340.6	5354.4	5399.1	5454.1	5660.4	5753.3	5574.5	5337.2	5261.5	5216.8	5206.5
60°	5877.1	5901.1	6011.2	6124.7	6441.1	6609.6	6334.4	5935.5	5773.9	5691.4	5674.2
62.5°	6417.0	6465.1	6643.9	6836.5	7297.3	7548.4	7125.4	6547.7	6313.8	6210.6	6183.1
65°	7042.9	7101.3	7318.0	7562.1	8074.5	8428.7	7916.3	7180.4	6929.4	6791.8	6757.4
67.5°	7775.3	7837.2	8012.6	8284.3	8769.2	9116.5	8662.6	7826.9	7500.2	7324.8	7297.3
70°	8377.2	8432.2	8621.3	8896.4	9257.5	9653.0	9219.7	8342.8	8047.0	7923.2	7906.0
72.5°	8284.3	8356.5	8635.1	9047.7	9563.6	10010.6	9463.8	8442.5	8016.1	7844.1	7789.1
75°	7235.4	7314.5	7644.7	8390.9	9333.2	10000.3	9109.6	7778.8	7276.7	7132.3	7104.8
77.5°	4790.4	4866.0	5423.1	6599.2	8150.2	9113.1	8040.1	6516.7	5708.6	5361.2	5340.6
80°	1936.1	2032.4	2565.4	3813.7	5777.3	7084.1	5963.0	4171.4	2813.0	2269.7	2159.6
82.5°	450.5	536.5	780.6	1406.5	2957.5	4412.1	3215.4	1557.8	904.4	643.1	577.7
85°	189.1	192.6	333.6	457.4	925.1	1781.3	1052.3	567.4	460.8	337.0	330.1
87.5°	72.2	75.7	161.6	192.6	295.7	337.0	357.6	292.3	271.7	168.5	161.6
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)