

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: P399641

Luminaire Tested: **ARCH-L-PA3-170-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399641
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-PA3-170-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 26930 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

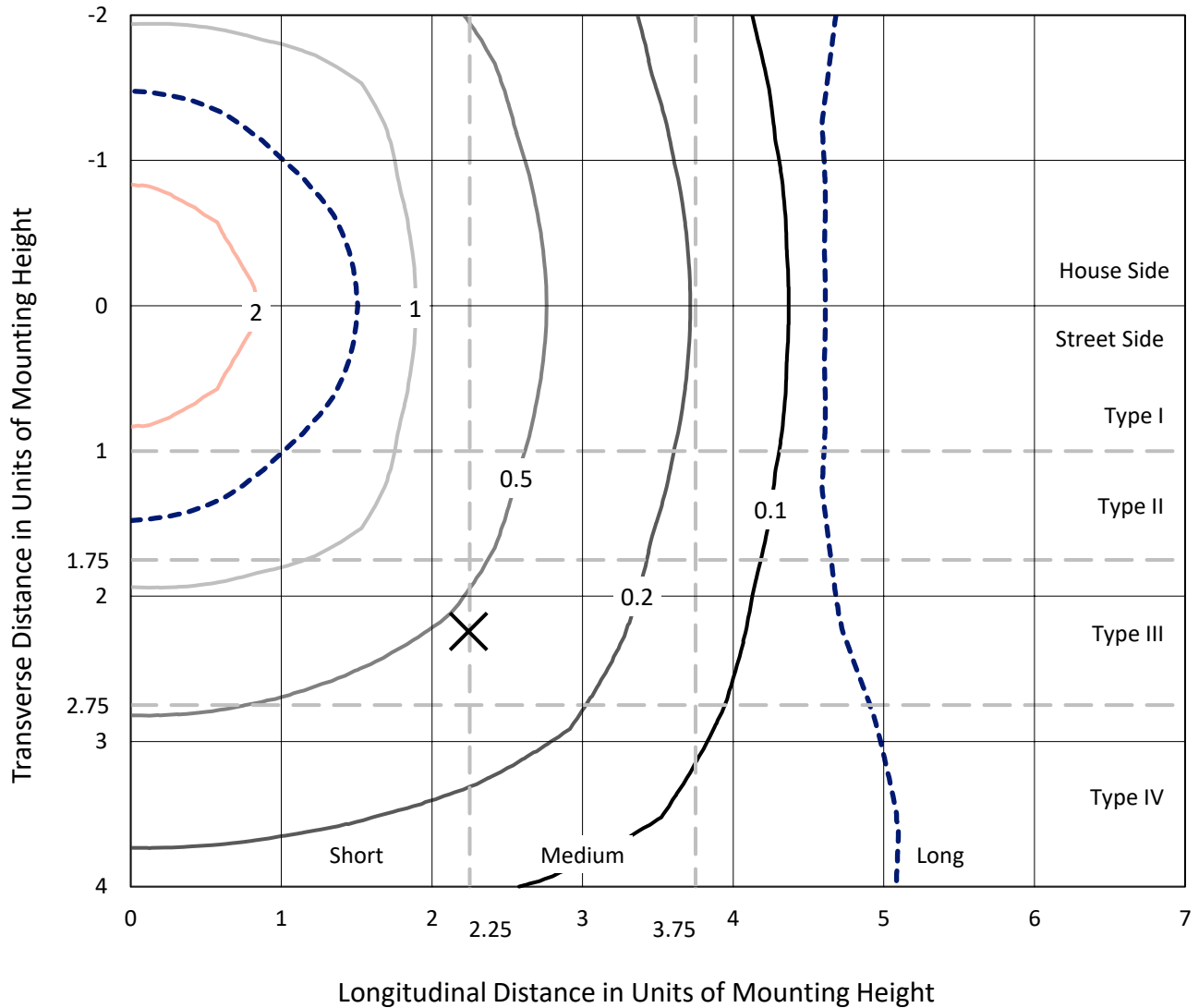
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

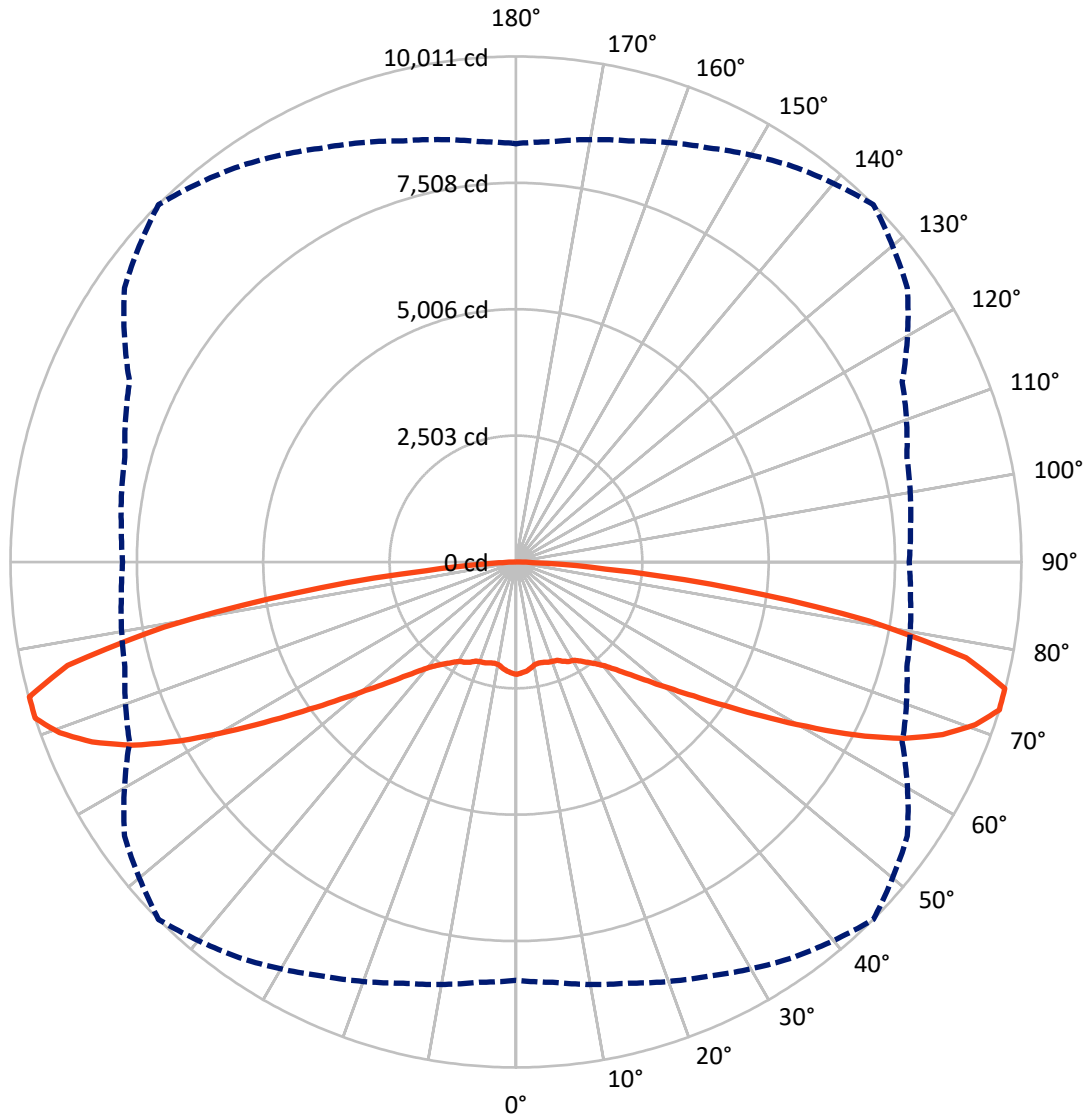
✕ Max cd
 - - - 1/2 Max cd



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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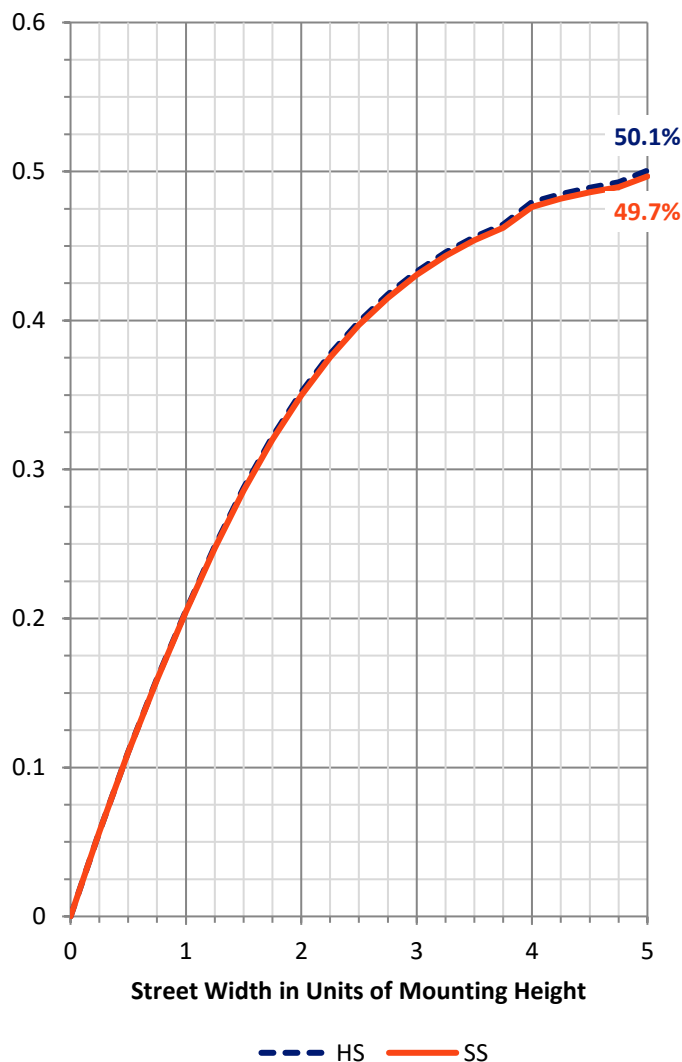
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13465.0	0.0	13465.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13465.0	0.0	13465.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26930.0	0.0	26930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	0.8
10°-20°	593.2	2.2
20°-30°	1007.9	3.7
30°-40°	1537.3	5.7
40°-50°	2531.3	9.4
50°-60°	4420.4	16.4
60°-70°	7410.9	27.5
70°-80°	7931.2	29.5
80°-90°	1293.6	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°	26930.0	100.0
0°-180°	26930.0	100.0



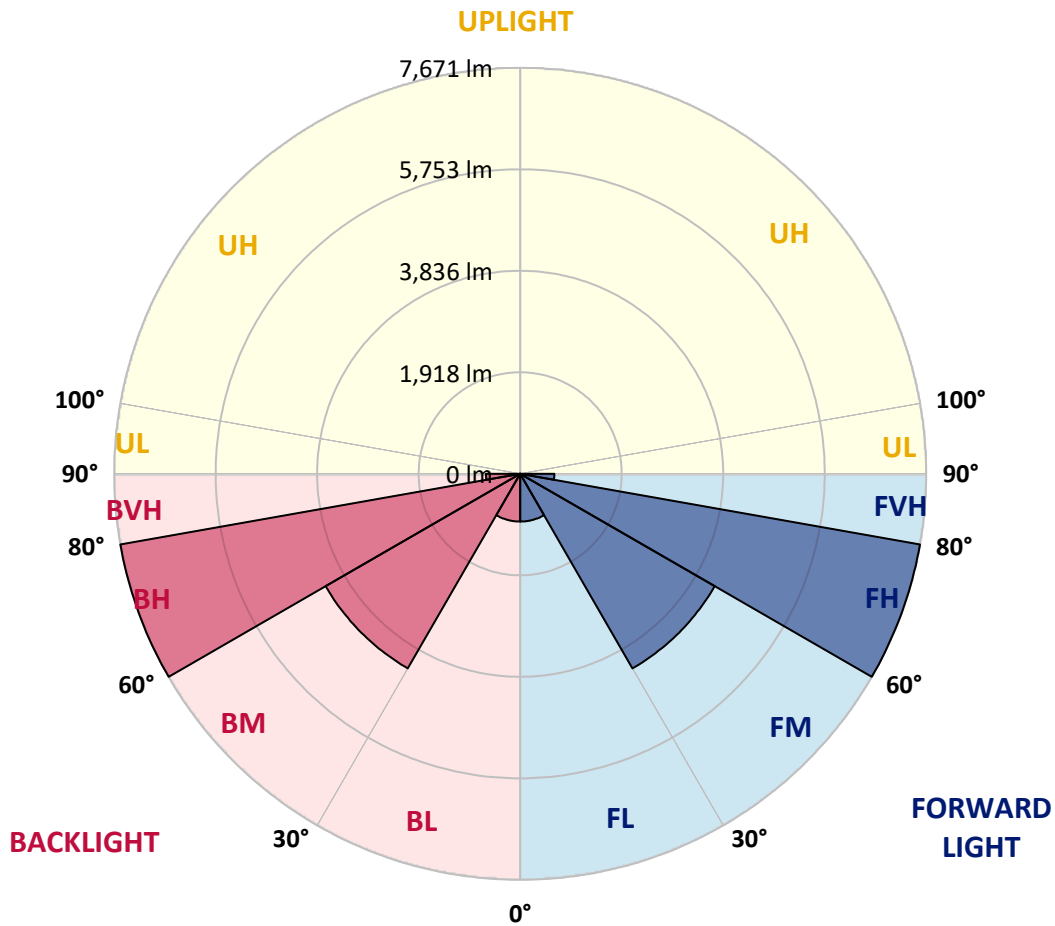
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.7	3.4			
FM (30°-60°)	4244.5	15.8			
FH (60°-80°)	7671.0	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°)	4244.5	15.8	B3/5000		
BH (60°-80°)	7671.0	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°	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5	2228.5
2.5°	2214.7	2214.7	2214.7	2211.3	2204.4	2201.0	2194.1	2197.5	2197.5	2197.5	2197.5
5°	2187.2	2187.2	2183.8	2180.3	2173.5	2170.0	2163.1	2170.0	2170.0	2170.0	2170.0
7.5°	2135.6	2139.1	2139.1	2135.6	2125.3	2121.9	2111.6	2115.0	2115.0	2118.4	2115.0
10°	2108.1	2108.1	2104.7	2087.5	2070.3	2063.4	2060.0	2070.3	2080.6	2090.9	2090.9
12.5°	2108.1	2108.1	2101.2	2073.7	2049.7	2049.7	2049.7	2063.4	2084.0	2104.7	2108.1
15°	2118.4	2118.4	2104.7	2073.7	2060.0	2063.4	2063.4	2077.2	2101.2	2128.8	2132.2
17.5°	2125.3	2125.3	2108.1	2077.2	2077.2	2087.5	2080.6	2090.9	2115.0	2146.0	2149.4
20°	2135.6	2135.6	2111.6	2087.5	2087.5	2097.8	2097.8	2108.1	2128.8	2159.7	2163.1
22.5°	2156.3	2152.8	2128.8	2108.1	2108.1	2115.0	2121.9	2135.6	2152.8	2180.3	2187.2
25°	2180.3	2180.3	2159.7	2156.3	2163.1	2180.3	2176.9	2173.5	2180.3	2204.4	2214.7
27.5°	2194.1	2194.1	2180.3	2190.7	2218.2	2231.9	2214.7	2201.0	2201.0	2225.0	2228.5
30°	2238.8	2235.4	2221.6	2228.5	2252.6	2259.4	2249.1	2231.9	2242.2	2269.8	2273.2
32.5°	2314.5	2314.5	2293.8	2293.8	2311.0	2338.5	2304.1	2293.8	2307.6	2338.5	2342.0
35°	2431.4	2431.4	2403.9	2390.1	2403.9	2441.7	2390.1	2386.7	2410.8	2445.1	2448.6
37.5°	2579.3	2579.3	2562.1	2527.7	2531.1	2555.2	2510.5	2507.0	2551.8	2589.6	2589.6
40°	2765.0	2775.3	2758.1	2716.8	2703.1	2706.5	2672.1	2675.6	2727.1	2771.9	2771.9
42.5°	2995.4	3002.3	2974.8	2943.8	2926.6	2916.3	2881.9	2888.8	2950.7	3009.1	3009.1
45°	3274.0	3277.4	3249.9	3212.0	3191.4	3184.5	3150.1	3167.3	3236.1	3298.0	3294.6
47.5°	3586.9	3590.3	3562.8	3525.0	3511.2	3521.6	3487.2	3487.2	3549.1	3600.7	3593.8
50°	3941.1	3948.0	3917.0	3899.9	3889.5	3917.0	3875.8	3838.0	3879.2	3930.8	3923.9
52.5°	4333.2	4350.4	4329.7	4336.6	4374.4	4408.8	4340.0	4257.5	4278.1	4312.5	4302.2
55°	4807.8	4828.4	4835.3	4859.3	4959.1	5017.5	4904.0	4766.5	4756.2	4759.6	4742.4
57.5°	5340.8	5354.6	5399.3	5454.3	5660.6	5753.5	5574.7	5337.4	5261.7	5217.0	5206.7
60°	5877.3	5901.4	6011.4	6124.9	6441.3	6609.8	6334.7	5935.8	5774.1	5691.6	5674.4
62.5°	6417.2	6465.4	6644.2	6836.8	7297.6	7548.7	7125.7	6547.9	6314.0	6210.9	6183.4
65°	7043.1	7101.6	7318.2	7562.4	8074.8	8429.0	7916.6	7180.7	6929.6	6792.1	6757.7
67.5°	7775.6	7837.5	8012.9	8284.6	8769.5	9116.9	8662.9	7827.2	7500.5	7325.1	7297.6
70°	8377.5	8432.5	8621.6	8896.8	9257.9	9653.3	9220.0	8343.1	8047.3	7923.5	7906.3
72.5°	8284.6	8356.8	8635.4	9048.1	9563.9	10011.0	9464.2	8442.8	8016.4	7844.4	7789.4
75°	7235.7	7314.8	7644.9	8391.2	9333.5	10000.7	9110.0	7779.1	7277.0	7132.5	7105.0
77.5°	4790.6	4866.2	5423.3	6599.5	8150.5	9113.4	8040.4	6517.0	5708.8	5361.4	5340.8
80°	1936.2	2032.5	2565.5	3813.9	5777.6	7084.4	5963.3	4171.5	2813.1	2269.8	2159.7
82.5°	450.5	536.5	780.7	1406.6	2957.6	4412.3	3215.5	1557.9	904.5	643.1	577.8
85°	189.1	192.6	333.6	457.4	925.1	1781.4	1052.3	567.4	460.8	337.0	330.1
87.5°	72.2	75.7	161.6	192.6	295.8	337.0	357.7	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)