

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: P400253

Luminaire Tested: **ARCH-L-PA3-250-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400253
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-PA3-250-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27493 lumens
Efficiency: N/A
Efficacy: 109.5 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

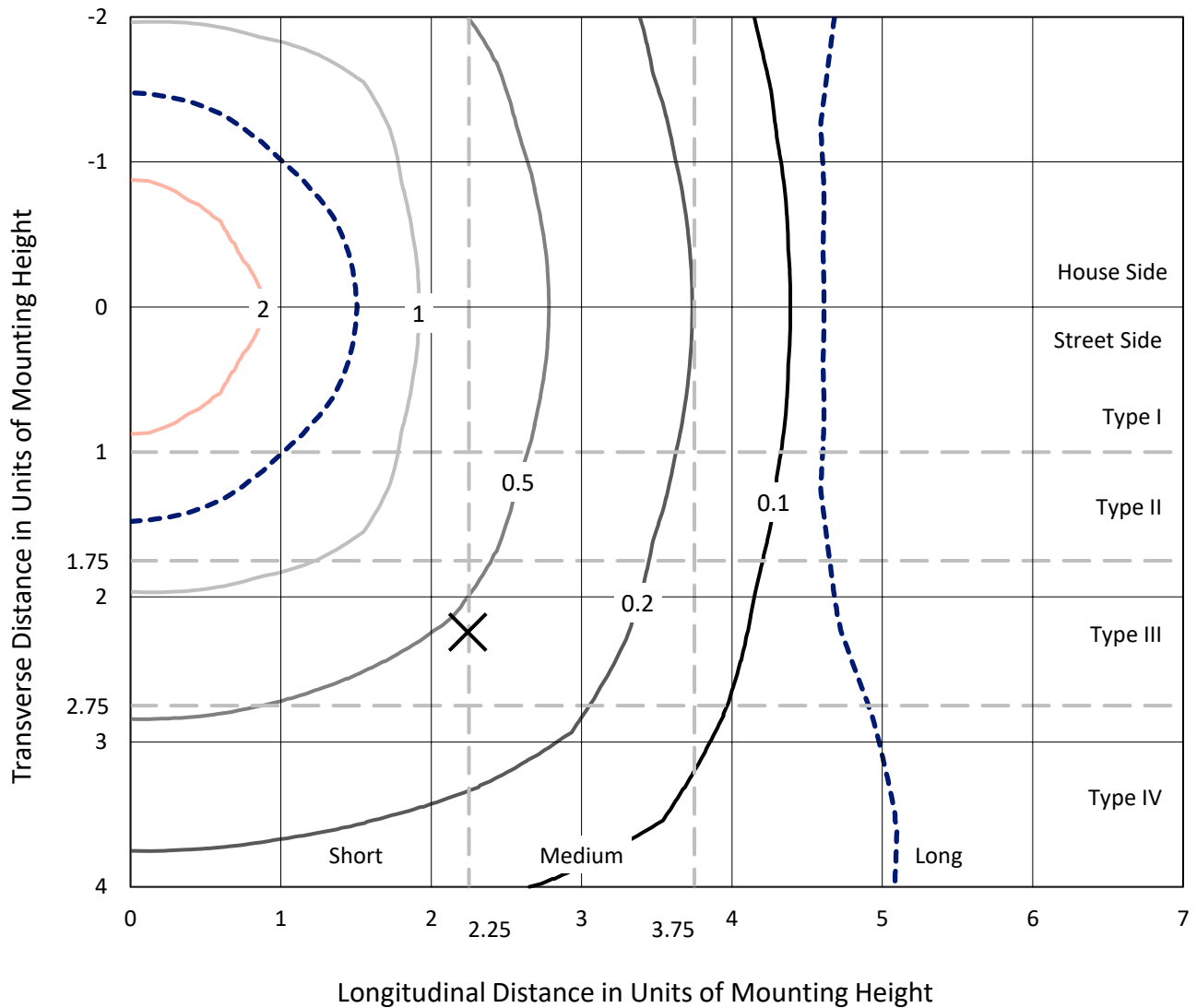
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

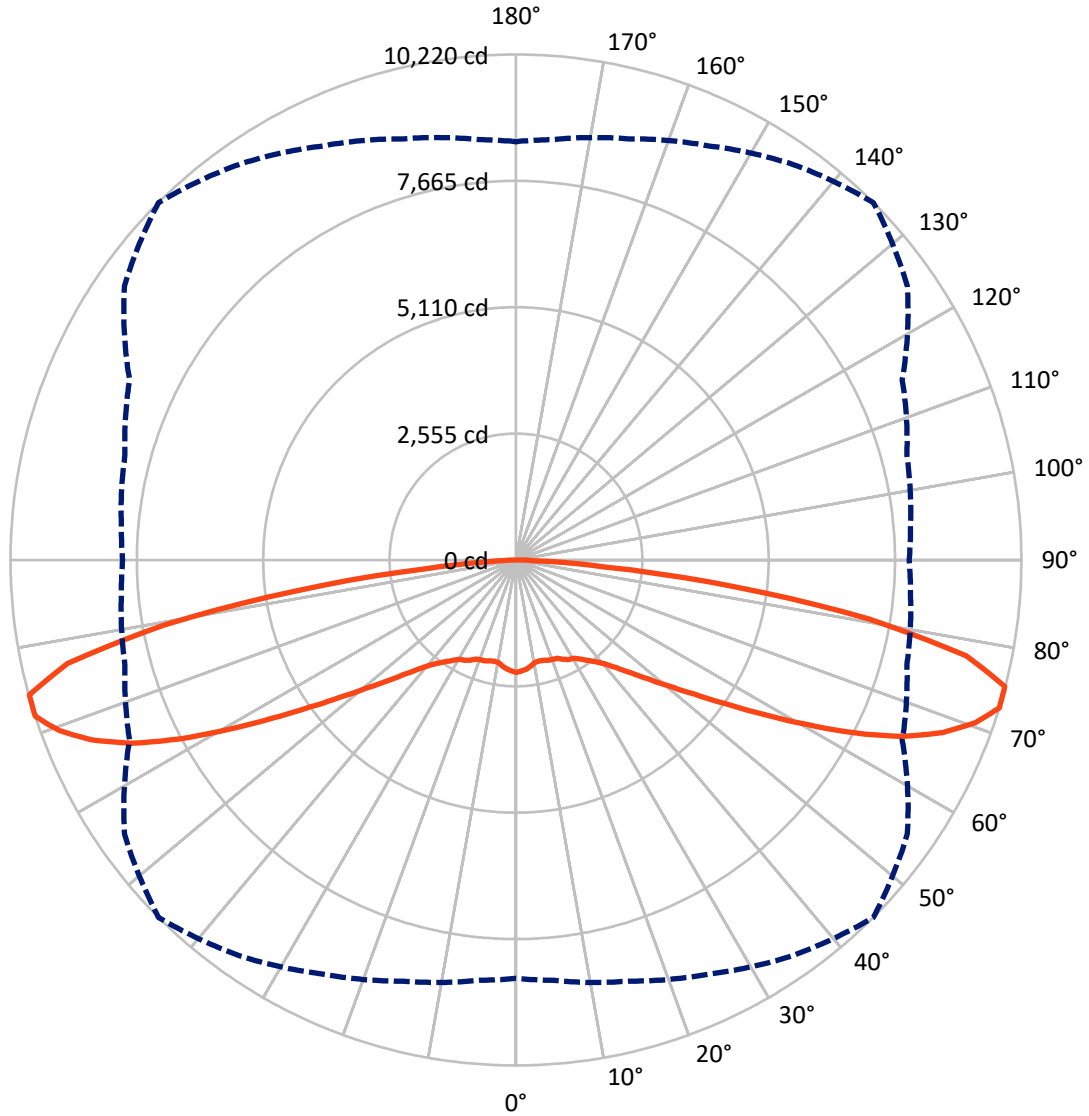
✕ Max cd
 - - - 1/2 Max cd



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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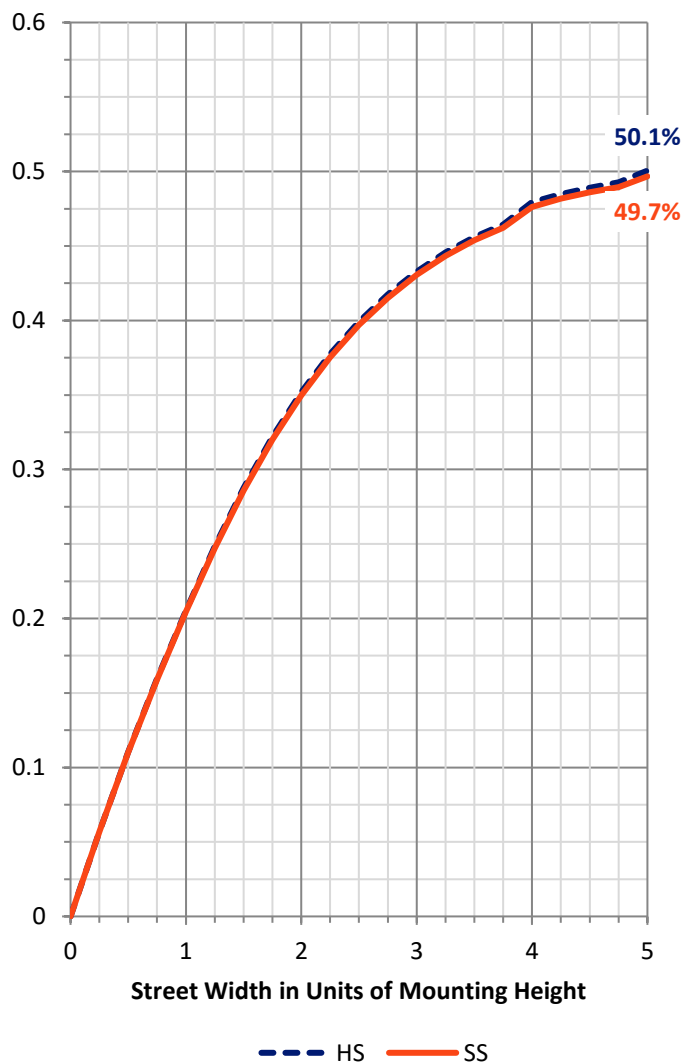
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13746.5	0.0	13746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13746.5	0.0	13746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27493.0	0.0	27493.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	0.8
10°-20°	605.6	2.2
20°-30°	1028.9	3.7
30°-40°	1569.4	5.7
40°-50°	2584.2	9.4
50°-60°	4512.8	16.4
60°-70°	7565.8	27.5
70°-80°	8097.0	29.5
80°-90°	1320.6	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°	27493.0	100.0
0°-180°	27493.0	100.0

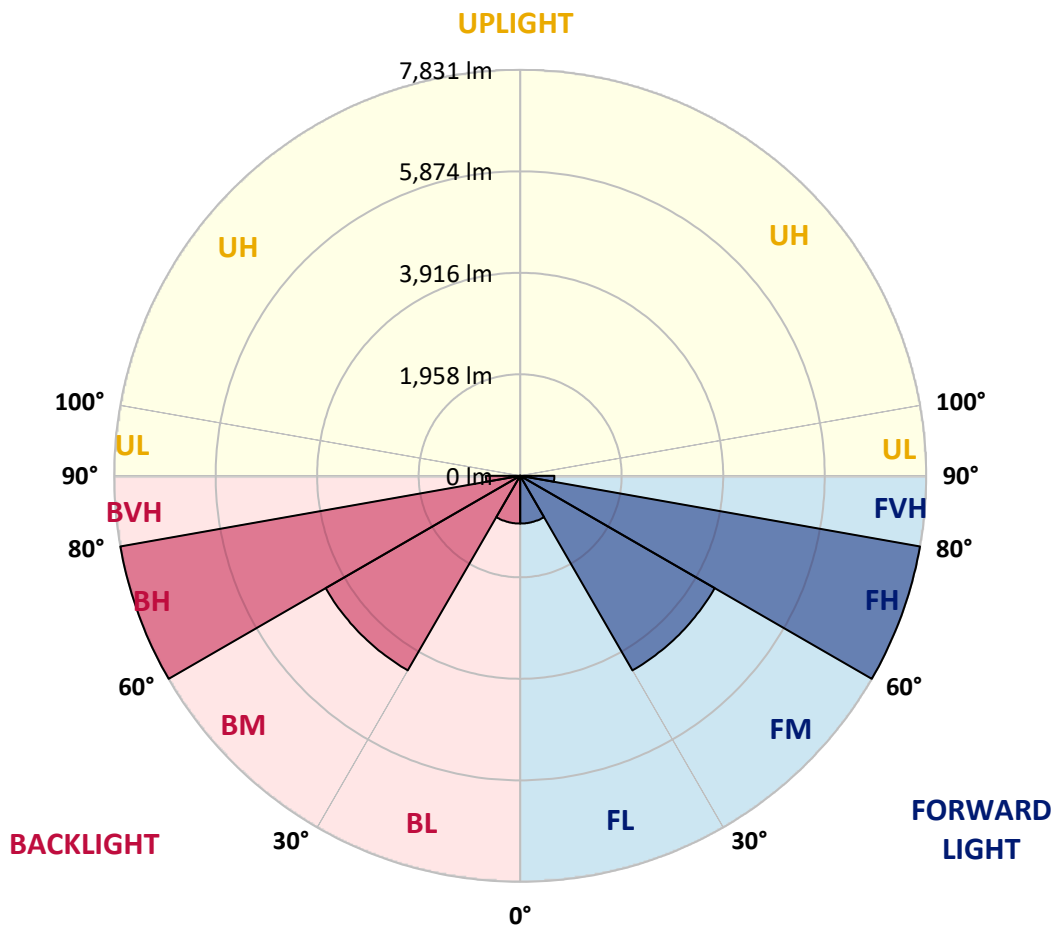


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.6	3.4			
FM (30°-60°)	4333.2	15.8			
FH (60°-80°)	7831.4	28.5			G4/12000
FVH (80°-90°)	660.3	2.4			G4/750
BL (0°-30°)	921.6	3.4	B2/1000		
BM (30°-60°)	4333.2	15.8	B3/5000		
BH (60°-80°)	7831.4	28.5	B5		G4/12000
BVH (80°-90°)	660.3	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°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2261.0	2261.0	2261.0	2257.5	2250.5	2247.0	2240.0	2243.5	2243.5	2243.5	2243.5
5°	2232.9	2232.9	2229.4	2225.9	2218.9	2215.4	2208.4	2215.4	2215.4	2215.4	2215.4
7.5°	2180.3	2183.8	2183.8	2180.3	2169.7	2166.2	2155.7	2159.2	2159.2	2162.7	2159.2
10°	2152.2	2152.2	2148.7	2131.1	2113.6	2106.6	2103.0	2113.6	2124.1	2134.6	2134.6
12.5°	2152.2	2152.2	2145.2	2117.1	2092.5	2092.5	2092.5	2106.6	2127.6	2148.7	2152.2
15°	2162.7	2162.7	2148.7	2117.1	2103.0	2106.6	2106.6	2120.6	2145.2	2173.3	2176.8
17.5°	2169.7	2169.7	2152.2	2120.6	2120.6	2131.1	2124.1	2134.6	2159.2	2190.8	2194.3
20°	2180.3	2180.3	2155.7	2131.1	2131.1	2141.7	2141.7	2152.2	2173.3	2204.9	2208.4
22.5°	2201.3	2197.8	2173.3	2152.2	2152.2	2159.2	2166.2	2180.3	2197.8	2225.9	2232.9
25°	2225.9	2225.9	2204.9	2201.3	2208.4	2225.9	2222.4	2218.9	2225.9	2250.5	2261.0
27.5°	2240.0	2240.0	2225.9	2236.5	2264.5	2278.6	2261.0	2247.0	2247.0	2271.6	2275.1
30°	2285.6	2282.1	2268.1	2275.1	2299.7	2306.7	2296.1	2278.6	2289.1	2317.2	2320.7
32.5°	2362.8	2362.8	2341.8	2341.8	2359.3	2387.4	2352.3	2341.8	2355.8	2387.4	2390.9
35°	2482.2	2482.2	2454.1	2440.1	2454.1	2492.8	2440.1	2436.6	2461.2	2496.3	2499.8
37.5°	2633.2	2633.2	2615.6	2580.5	2584.0	2608.6	2563.0	2559.5	2605.1	2643.7	2643.7
40°	2822.8	2833.3	2815.8	2773.6	2759.6	2763.1	2728.0	2731.5	2784.2	2829.8	2829.8
42.5°	3058.0	3065.0	3036.9	3005.3	2987.8	2977.3	2942.2	2949.2	3012.4	3072.1	3072.1
45°	3342.4	3345.9	3317.8	3279.2	3258.1	3251.1	3216.0	3233.6	3303.8	3367.0	3363.5
47.5°	3661.9	3665.4	3637.3	3598.7	3584.6	3595.2	3560.1	3560.1	3623.3	3675.9	3668.9
50°	4023.5	4030.5	3998.9	3981.4	3970.9	3998.9	3956.8	3918.2	3960.3	4013.0	4006.0
52.5°	4423.8	4441.3	4420.2	4427.3	4465.9	4501.0	4430.8	4346.5	4367.6	4402.7	4392.2
55°	4908.3	4929.3	4936.4	4960.9	5062.7	5122.4	5006.6	4866.1	4855.6	4859.1	4841.6
57.5°	5452.5	5466.5	5512.1	5568.3	5779.0	5873.8	5691.2	5448.9	5371.7	5326.1	5315.5
60°	6000.2	6024.7	6137.1	6252.9	6576.0	6748.0	6467.1	6059.8	5894.8	5810.6	5793.0
62.5°	6551.4	6600.5	6783.1	6979.7	7450.2	7706.5	7274.6	6684.8	6446.0	6340.7	6312.6
65°	7190.4	7250.1	7471.2	7720.5	8243.6	8605.3	8082.1	7330.8	7074.5	6934.1	6899.0
67.5°	7938.2	8001.4	8180.4	8457.8	8952.8	9307.4	8844.0	7990.9	7657.3	7478.3	7450.2
70°	8552.6	8608.8	8801.9	9082.8	9451.4	9855.2	9412.8	8517.5	8215.6	8089.2	8071.6
72.5°	8457.8	8531.5	8815.9	9237.2	9763.9	10220.3	9662.1	8619.3	8184.0	8008.4	7952.2
75°	7387.0	7467.7	7804.8	8566.6	9528.6	10209.8	9300.4	7941.7	7429.1	7281.6	7253.6
77.5°	4890.7	4968.0	5536.7	6737.5	8320.9	9303.9	8208.5	6653.2	5828.1	5473.5	5452.5
80°	1976.6	2075.0	2619.1	3893.6	5898.3	7232.5	6087.9	4258.7	2871.9	2317.2	2204.9
82.5°	459.9	547.7	797.0	1436.0	3019.4	4504.5	3282.7	1590.4	923.4	656.5	589.8
85°	193.1	196.6	340.6	467.0	944.4	1818.7	1074.3	579.3	470.5	344.1	337.0
87.5°	73.7	77.2	165.0	196.6	301.9	344.1	365.1	298.4	277.4	172.0	165.0
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)