

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: P399992

Luminaire Tested: **ARCH-L-PA3-220-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399992
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-PA3-220-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29063 lumens
Efficiency: N/A
Efficacy: 130.9 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

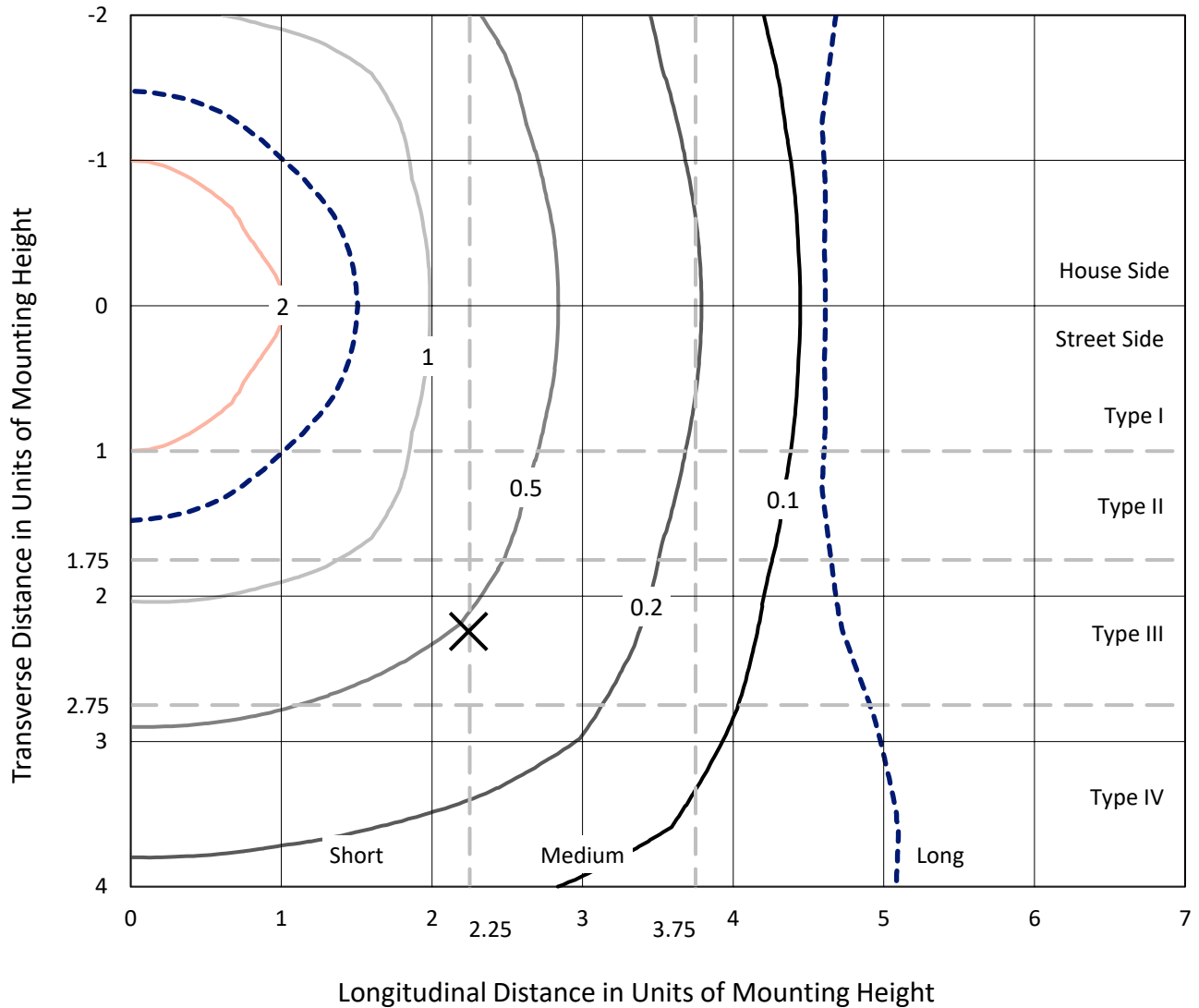
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

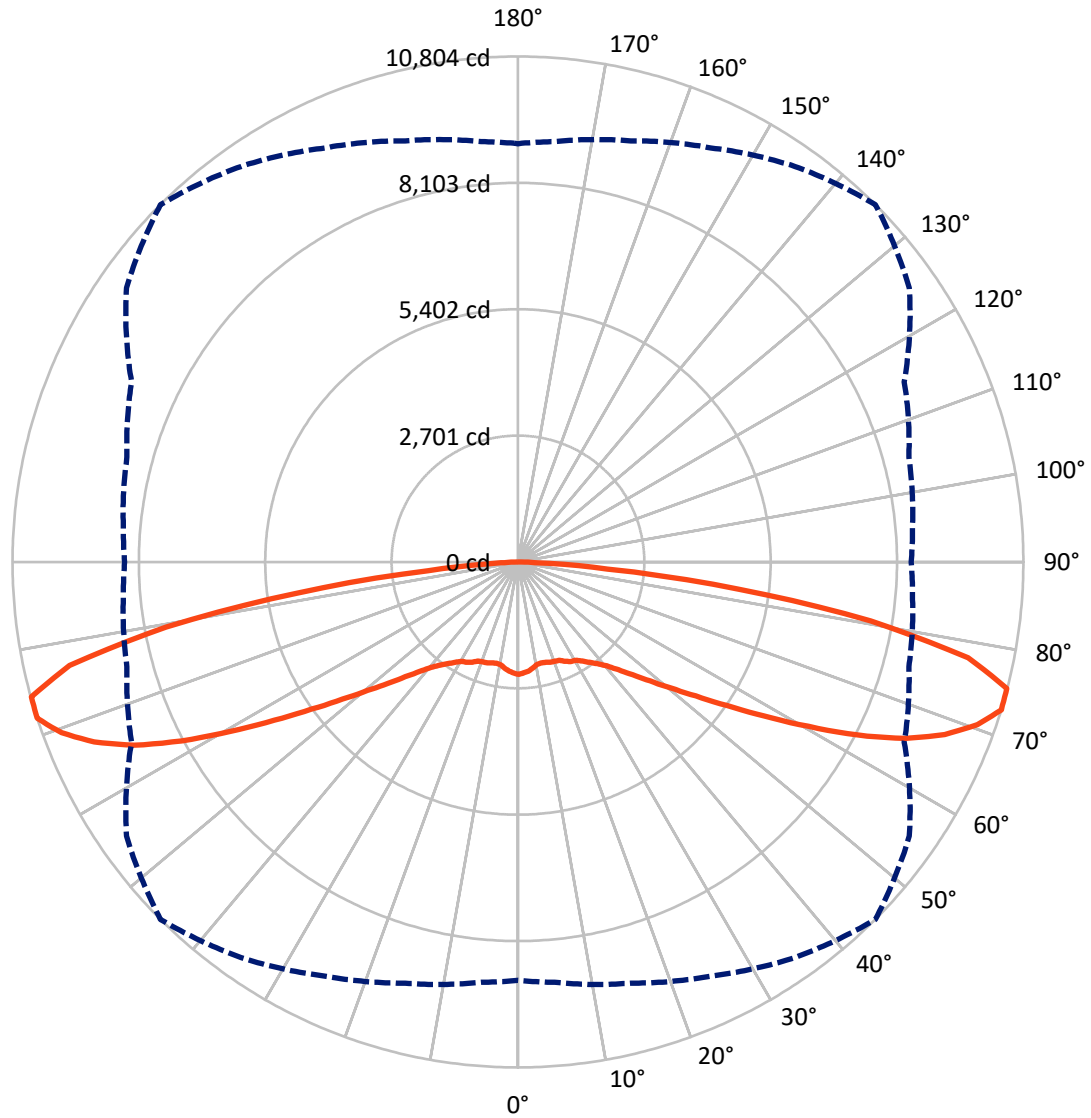
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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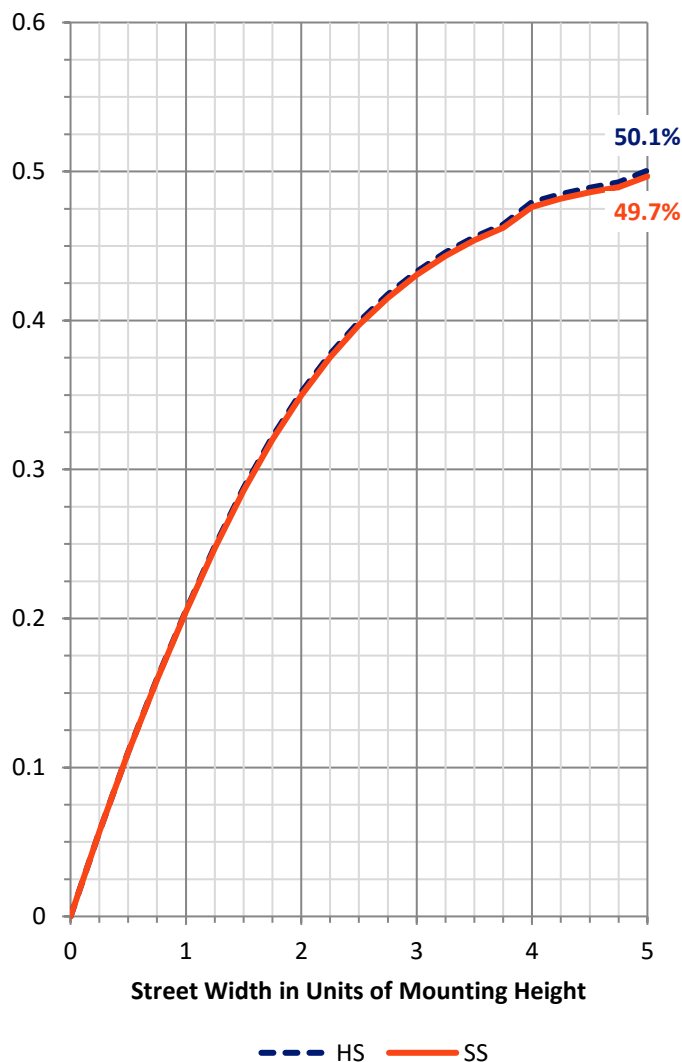
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14531.5	0.0	14531.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14531.5	0.0	14531.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29063.0	0.0	29063.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	0.8
10°-20°	640.1	2.2
20°-30°	1087.7	3.7
30°-40°	1659.0	5.7
40°-50°	2731.8	9.4
50°-60°	4770.5	16.4
60°-70°	7997.9	27.5
70°-80°	8559.4	29.5
80°-90°	1396.0	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°	29063.0	100.0
0°-180°	29063.0	100.0



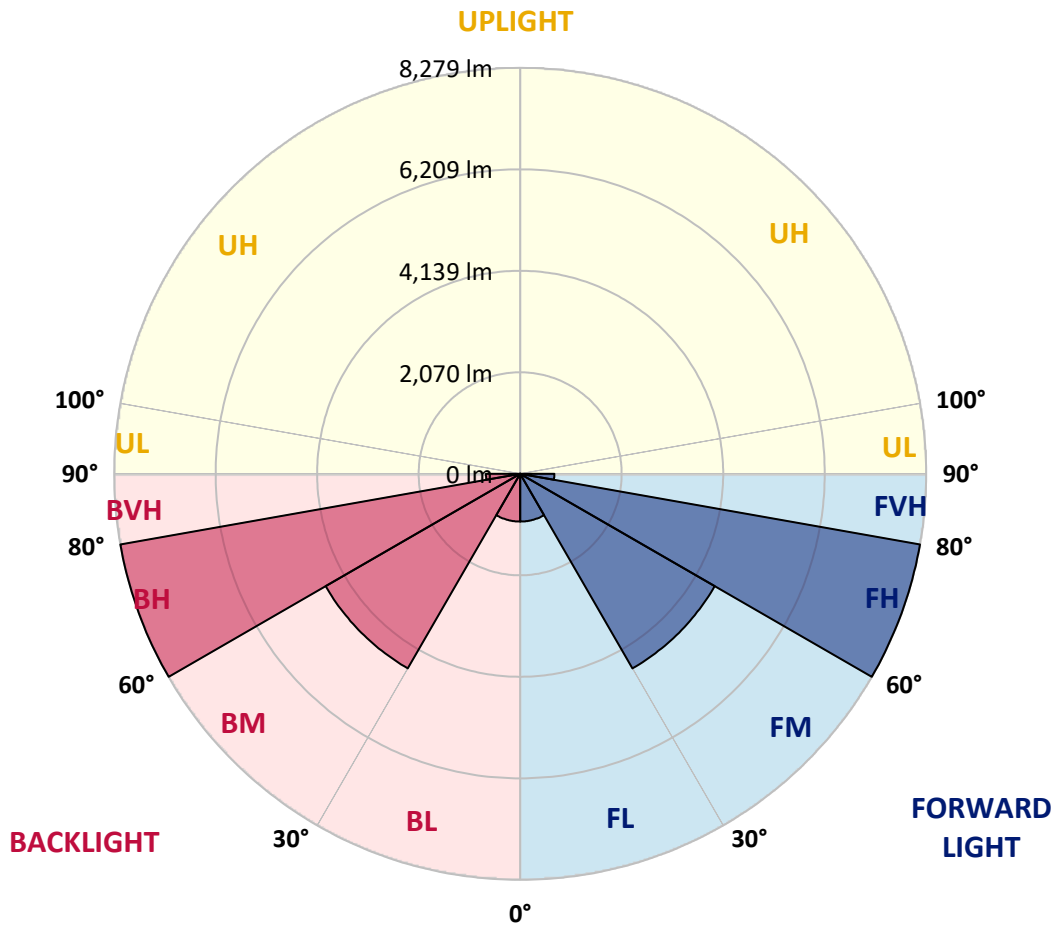
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.2	3.4			
FM (30°-60°)	4580.7	15.8			
FH (60°-80°)	8278.6	28.5			G4/12000
FVH (80°-90°)	698.0	2.4			G4/750
BL (0°-30°)	974.2	3.4	B2/1000		
BM (30°-60°)	4580.7	15.8	B3/5000		
BH (60°-80°)	8278.6	28.5	B5		G4/12000
BVH (80°-90°)	698.0	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°	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0	2405.0
2.5°	2390.1	2390.1	2390.1	2386.4	2379.0	2375.3	2367.9	2371.6	2371.6	2371.6	2371.6
5°	2360.5	2360.5	2356.7	2353.0	2345.6	2341.9	2334.5	2341.9	2341.9	2341.9	2341.9
7.5°	2304.8	2308.5	2308.5	2304.8	2293.7	2289.9	2278.8	2282.5	2282.5	2286.2	2282.5
10°	2275.1	2275.1	2271.4	2252.8	2234.3	2226.8	2223.1	2234.3	2245.4	2256.5	2256.5
12.5°	2275.1	2275.1	2267.7	2238.0	2212.0	2212.0	2212.0	2226.8	2249.1	2271.4	2275.1
15°	2286.2	2286.2	2271.4	2238.0	2223.1	2226.8	2226.8	2241.7	2267.7	2297.4	2301.1
17.5°	2293.7	2293.7	2275.1	2241.7	2241.7	2252.8	2245.4	2256.5	2282.5	2315.9	2319.6
20°	2304.8	2304.8	2278.8	2252.8	2252.8	2264.0	2264.0	2275.1	2297.4	2330.8	2334.5
22.5°	2327.1	2323.3	2297.4	2275.1	2275.1	2282.5	2289.9	2304.8	2323.3	2353.0	2360.5
25°	2353.0	2353.0	2330.8	2327.1	2334.5	2353.0	2349.3	2345.6	2353.0	2379.0	2390.1
27.5°	2367.9	2367.9	2353.0	2364.2	2393.9	2408.7	2390.1	2375.3	2375.3	2401.3	2405.0
30°	2416.1	2412.4	2397.6	2405.0	2431.0	2438.4	2427.3	2408.7	2419.8	2449.5	2453.2
32.5°	2497.8	2497.8	2475.5	2475.5	2494.1	2523.8	2486.6	2475.5	2490.4	2523.8	2527.5
35°	2624.0	2624.0	2594.3	2579.4	2594.3	2635.1	2579.4	2575.7	2601.7	2638.8	2642.5
37.5°	2783.6	2783.6	2765.0	2727.9	2731.6	2757.6	2709.3	2705.6	2753.9	2794.7	2794.7
40°	2984.0	2995.1	2976.6	2932.0	2917.2	2920.9	2883.8	2887.5	2943.2	2991.4	2991.4
42.5°	3232.6	3240.1	3210.4	3177.0	3158.4	3147.3	3110.2	3117.6	3184.4	3247.5	3247.5
45°	3533.3	3537.0	3507.3	3466.5	3444.2	3436.8	3399.7	3418.2	3492.4	3559.2	3555.5
47.5°	3871.0	3874.7	3845.0	3804.2	3789.4	3800.5	3763.4	3763.4	3830.2	3885.8	3878.4
50°	4253.3	4260.7	4227.3	4208.7	4197.6	4227.3	4182.8	4141.9	4186.5	4242.1	4234.7
52.5°	4676.4	4694.9	4672.7	4680.1	4720.9	4758.0	4683.8	4594.7	4617.0	4654.1	4643.0
55°	5188.6	5210.8	5218.2	5244.2	5351.9	5415.0	5292.5	5144.0	5132.9	5136.6	5118.0
57.5°	5763.8	5778.7	5826.9	5886.3	6109.0	6209.2	6016.2	5760.1	5678.5	5630.2	5619.1
60°	6342.8	6368.8	6487.5	6610.0	6951.5	7133.3	6836.4	6405.9	6231.5	6142.4	6123.8
62.5°	6925.5	6977.5	7170.4	7378.3	7875.6	8146.6	7690.0	7066.5	6814.2	6702.8	6673.1
65°	7601.0	7664.1	7897.9	8161.4	8714.4	9096.7	8543.7	7749.4	7478.5	7330.0	7292.9
67.5°	8391.5	8458.3	8647.6	8940.8	9464.1	9839.0	9349.0	8447.2	8094.6	7905.3	7875.6
70°	9041.0	9100.4	9304.5	9601.4	9991.1	10417.9	9950.3	9003.9	8684.7	8551.1	8532.5
72.5°	8940.8	9018.7	9319.4	9764.7	10321.4	10803.9	10213.8	9111.5	8651.3	8465.7	8406.4
75°	7808.8	7894.2	8250.5	9055.8	10072.8	10792.8	9831.5	8395.2	7853.3	7697.5	7667.8
77.5°	5170.0	5251.6	5852.9	7122.2	8796.0	9835.2	8677.3	7033.1	6160.9	5786.1	5763.8
80°	2089.5	2193.4	2768.7	4116.0	6235.2	7645.5	6435.6	4501.9	3035.9	2449.5	2330.8
82.5°	486.2	579.0	842.5	1518.0	3191.8	4761.7	3470.2	1681.3	976.1	694.0	623.5
85°	204.1	207.8	360.0	493.6	998.4	1922.5	1135.7	612.4	497.3	363.7	356.3
87.5°	77.9	81.7	174.4	207.8	319.2	363.7	386.0	315.5	293.2	181.9	174.4
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)