

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: P236716

Luminaire Tested: **ARCH-L-AF72-230-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26626.5 lumens
Efficiency: N/A
Efficacy: 116.3 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

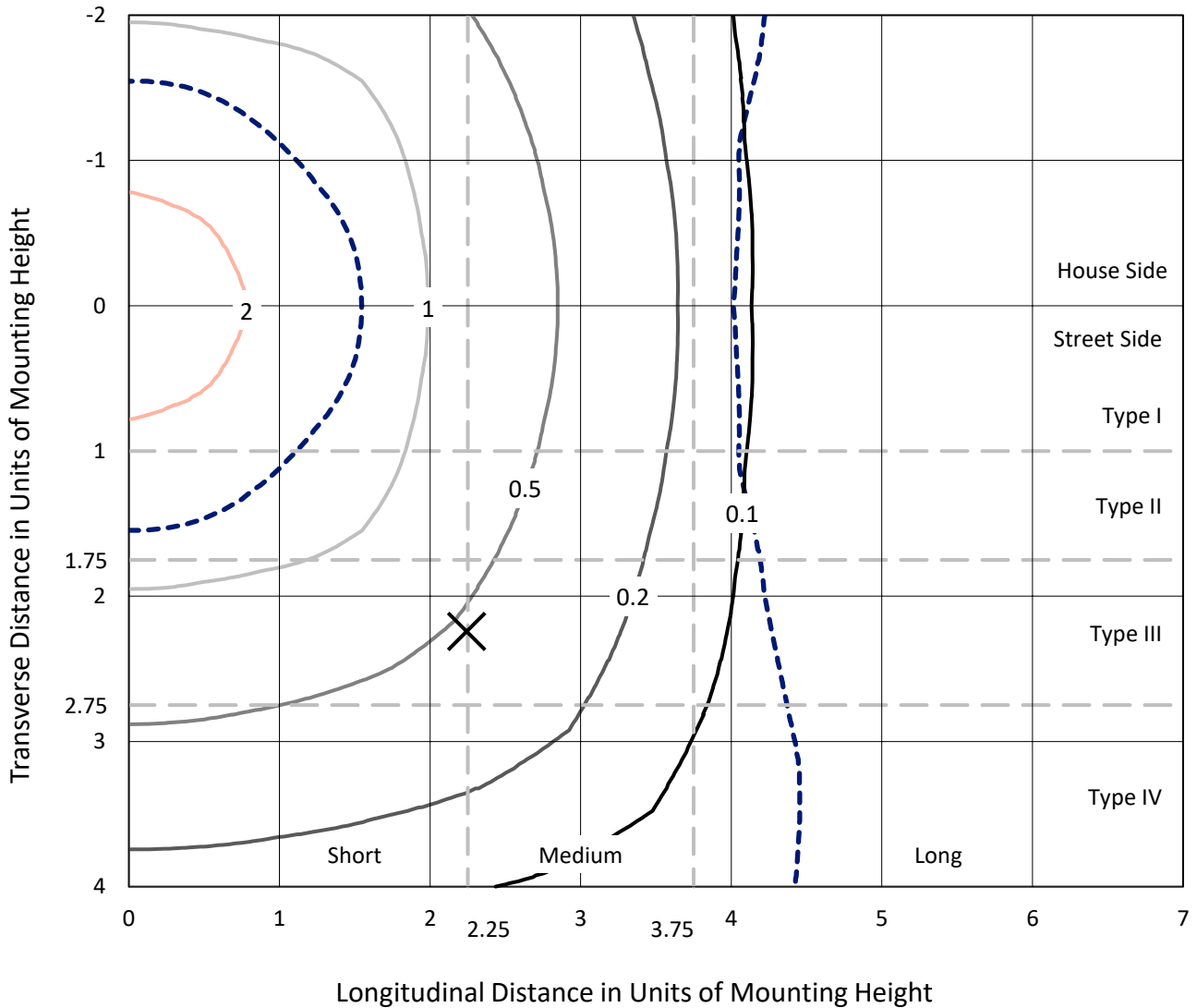
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

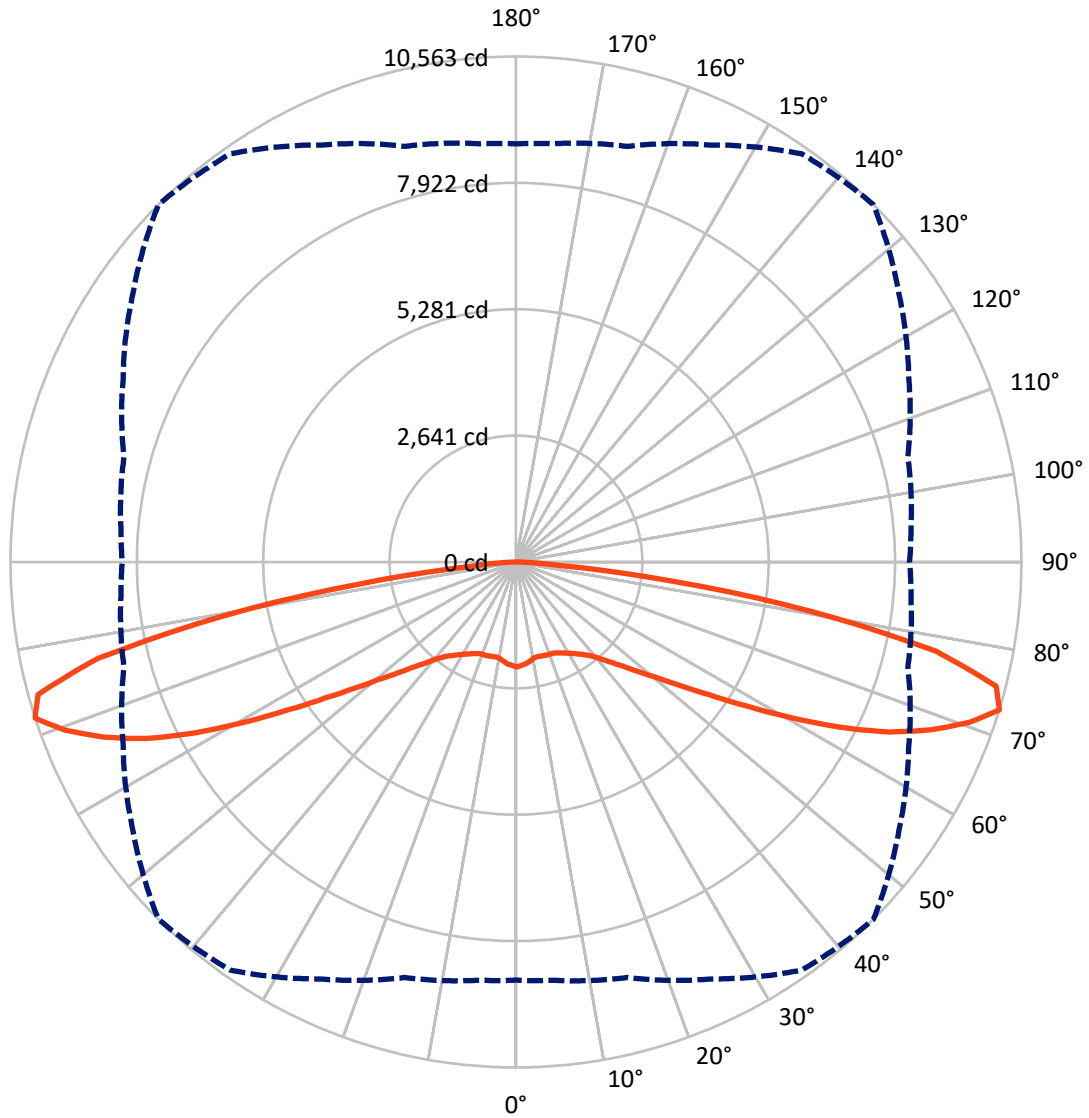
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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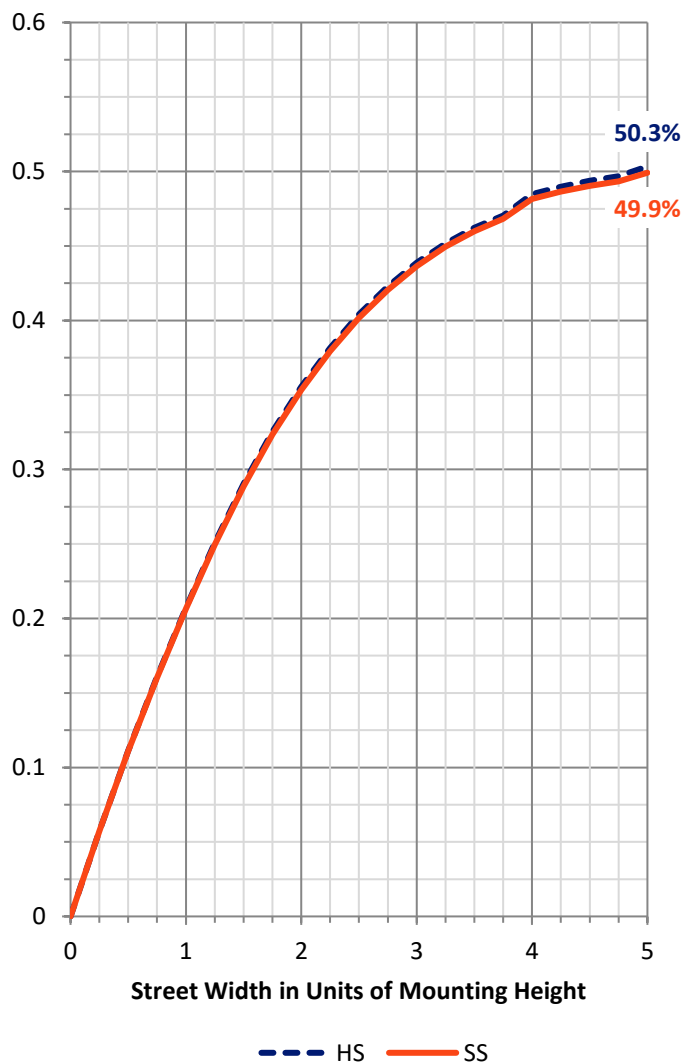
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13313.2	0.0	13313.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13313.2	0.0	13313.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26626.5	0.0	26626.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	0.8
10°-20°	582.6	2.2
20°-30°	975.0	3.7
30°-40°	1498.1	5.6
40°-50°	2480.5	9.3
50°-60°	4409.9	16.6
60°-70°	7715.0	29.0
70°-80°	7849.4	29.5
80°-90°	914.0	3.4
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°	26626.5	100.0
0°-180°	26626.5	100.0

Coefficient of Utilization

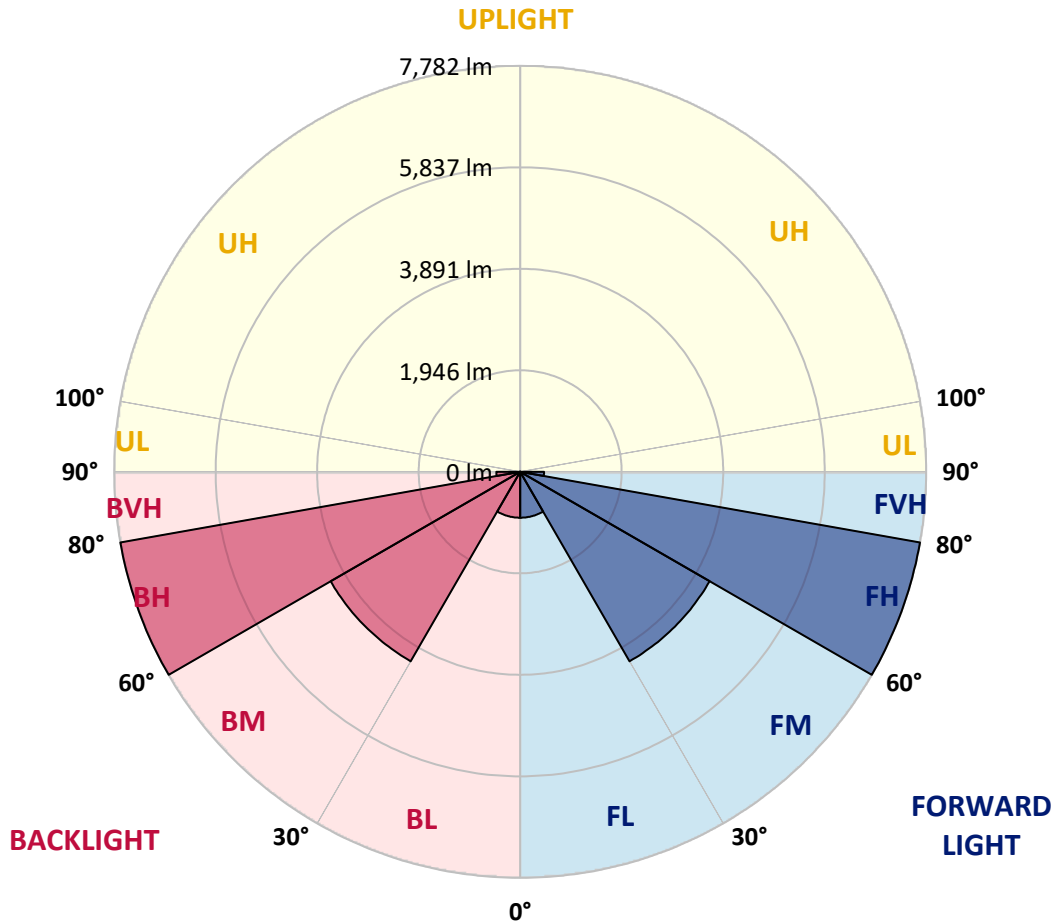


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.8	3.3			
FM (30°-60°)	4194.3	15.8			
FH (60°-80°)	7782.2	29.2			G4/12000
FVH (80°-90°)	457.0	1.7			G3/500
BL (0°-30°)	879.8	3.3	B2/1000		
BM (30°-60°)	4194.3	15.8	B3/5000		
BH (60°-80°)	7782.2	29.2	B5		G4/12000
BVH (80°-90°)	457.0	1.7			G3/500
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°	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2174.4	2179.4	2169.4	2169.4	2169.4	2164.2	2169.4	2164.2	2169.4	2174.4	2174.4
5°	2154.0	2154.0	2144.0	2144.0	2144.0	2138.9	2144.0	2144.0	2149.0	2154.0	2154.0
7.5°	2108.4	2108.4	2103.5	2098.4	2093.3	2093.3	2098.4	2098.4	2103.5	2108.4	2108.4
10°	2083.1	2078.1	2068.0	2052.8	2047.6	2042.6	2052.8	2062.9	2078.1	2093.3	2088.2
12.5°	2072.9	2068.0	2047.6	2032.4	2022.3	2027.5	2037.4	2047.6	2072.9	2088.2	2083.1
15°	2083.1	2072.9	2047.6	2022.3	2027.5	2037.4	2047.6	2047.6	2078.1	2093.3	2093.3
17.5°	2083.1	2078.1	2047.6	2027.5	2032.4	2047.6	2052.8	2047.6	2072.9	2098.4	2098.4
20°	2088.2	2088.2	2047.6	2032.4	2037.4	2052.8	2057.8	2052.8	2072.9	2103.5	2103.5
22.5°	2098.4	2093.3	2052.8	2042.6	2052.8	2062.9	2068.0	2062.9	2083.1	2108.4	2113.5
25°	2118.6	2108.4	2072.9	2068.0	2088.2	2103.5	2103.5	2093.3	2103.5	2128.7	2128.7
27.5°	2144.0	2138.9	2098.4	2098.4	2123.7	2154.0	2138.9	2118.6	2128.7	2154.0	2154.0
30°	2189.5	2184.5	2144.0	2144.0	2179.4	2214.9	2179.4	2154.0	2169.4	2194.7	2199.7
32.5°	2255.4	2255.4	2219.9	2209.9	2270.6	2285.9	2270.6	2219.9	2230.1	2265.6	2265.6
35°	2367.0	2356.8	2321.3	2316.3	2377.2	2372.0	2367.0	2321.3	2331.5	2372.0	2372.0
37.5°	2513.9	2508.9	2478.4	2463.2	2493.8	2473.4	2483.6	2463.2	2488.6	2519.0	2524.1
40°	2701.4	2696.4	2671.1	2650.8	2660.9	2630.5	2640.7	2650.8	2676.2	2696.4	2701.4
42.5°	2934.6	2934.6	2909.2	2873.8	2858.7	2843.4	2843.4	2863.6	2889.1	2914.4	2914.4
45°	3223.5	3223.5	3193.1	3157.6	3112.0	3086.7	3096.9	3117.0	3147.5	3178.0	3188.0
47.5°	3563.2	3563.2	3522.6	3487.1	3441.4	3411.1	3411.1	3421.2	3466.8	3492.2	3507.3
50°	3943.2	3928.1	3887.6	3852.1	3826.7	3786.2	3791.2	3786.2	3826.7	3862.2	3872.2
52.5°	4338.5	4333.6	4293.1	4282.9	4298.0	4277.8	4277.8	4227.1	4242.3	4262.5	4257.5
55°	4830.3	4815.0	4779.5	4799.9	4860.6	4891.1	4880.9	4799.9	4754.2	4764.4	4759.3
57.5°	5367.5	5352.3	5342.1	5403.0	5539.8	5666.5	5641.2	5453.6	5367.5	5372.6	5377.6
60°	5914.9	5914.9	5945.4	6097.3	6391.3	6599.2	6523.1	6208.8	6056.8	6026.4	6016.3
62.5°	6477.4	6492.7	6558.7	6812.0	7263.1	7607.7	7415.1	6969.1	6741.1	6680.2	6659.9
65°	7131.4	7146.5	7242.8	7557.0	8155.1	8565.7	8236.3	7815.6	7496.3	7369.5	7349.3
67.5°	8079.0	8089.2	8165.3	8469.3	9032.0	9361.5	9021.9	8646.8	8302.2	8155.1	8145.1
70°	8930.7	8940.8	9006.7	9407.0	9924.0	10040.6	9665.5	9189.1	8829.2	8712.7	8692.4
72.5°	8738.0	8773.5	8991.5	9614.9	10410.7	10562.6	9771.9	9057.4	8479.5	8286.9	8226.1
75°	7329.0	7384.8	7729.4	8667.1	9934.2	10365.0	9143.5	7830.7	6969.1	6599.2	6502.8
77.5°	4277.8	4485.5	5078.6	6279.7	8089.2	8966.2	7531.7	5732.4	4282.9	3674.6	3471.9
80°	1170.8	1282.2	1713.1	2889.1	5073.6	6279.7	4804.9	2630.5	1419.2	1064.4	988.4
82.5°	370.0	491.6	623.5	831.3	1991.9	3309.7	1784.1	775.5	608.2	501.8	446.0
85°	197.6	212.8	349.7	405.5	598.0	927.5	552.5	405.5	364.9	268.7	253.4
87.5°	101.4	106.4	197.6	197.6	263.6	218.0	238.1	218.0	207.8	131.7	116.6
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)