

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: P236756

Luminaire Tested: **ARCH-L-AF72-230-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 27531 lumens
Efficiency: N/A
Efficacy: 120.2 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

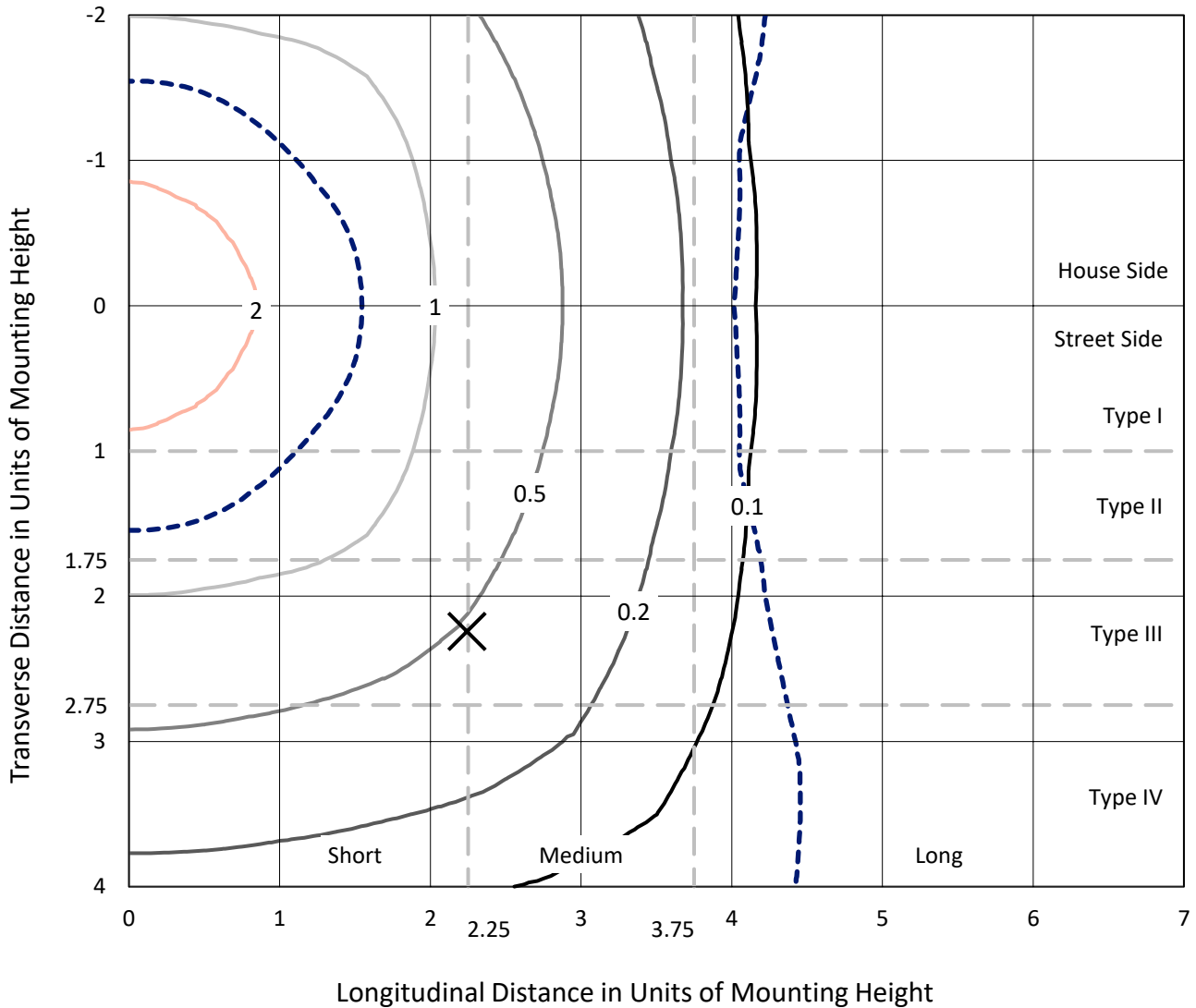
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

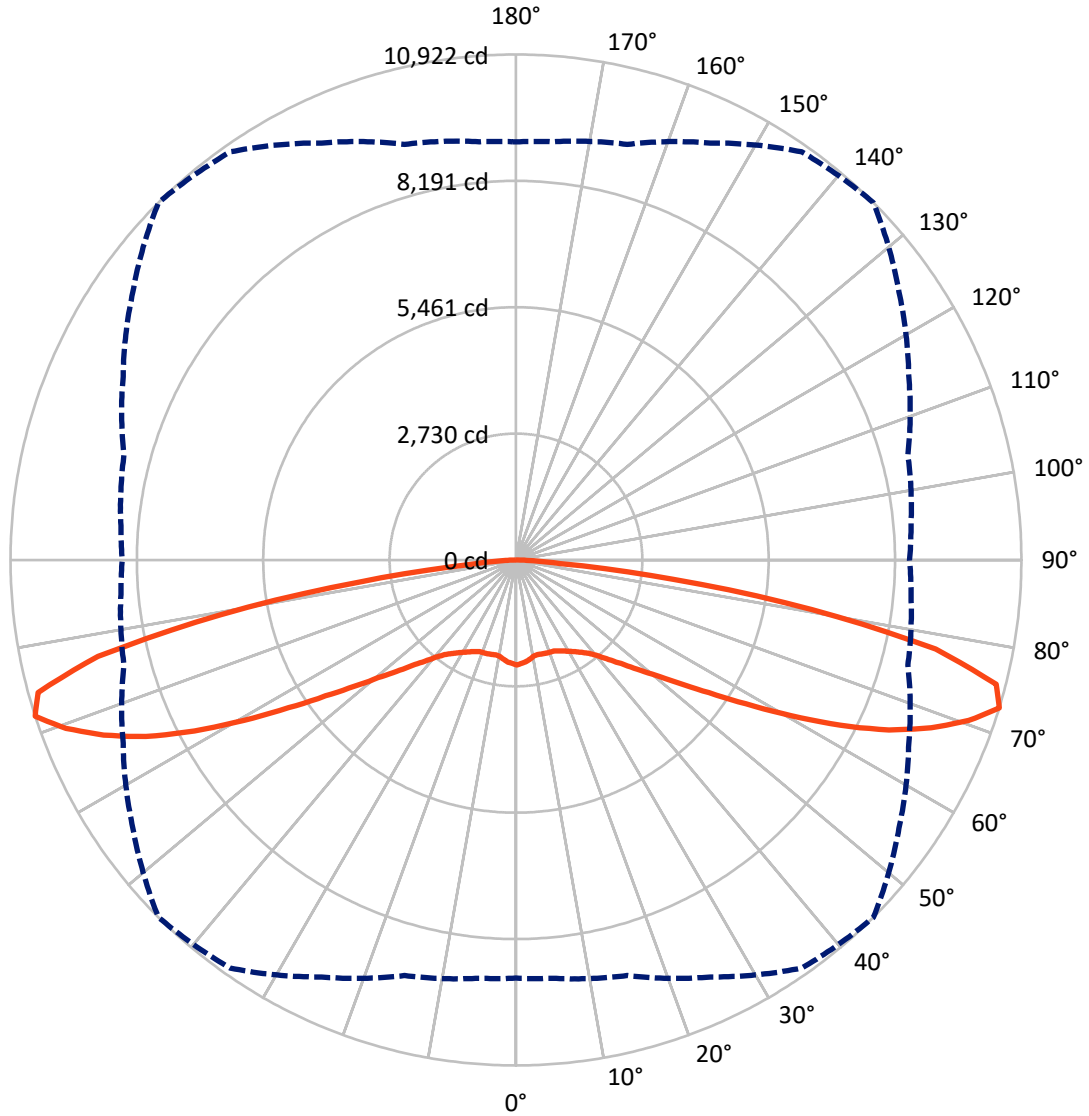
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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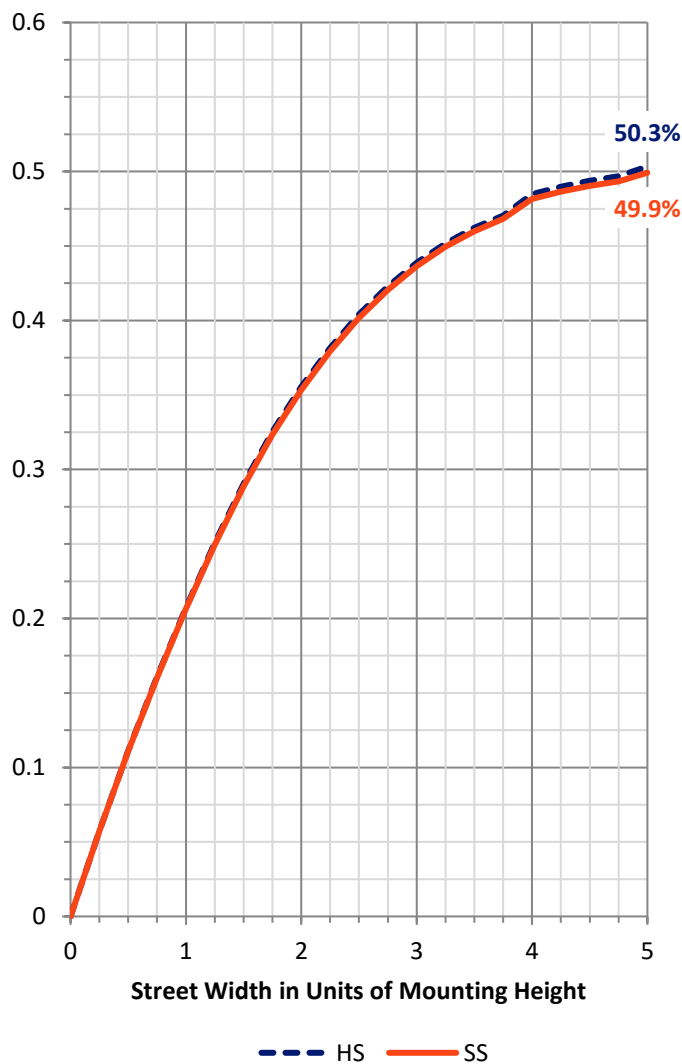
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13765.5	0.0	13765.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13765.5	0.0	13765.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27531.0	0.0	27531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	0.8
10°-20°	602.4	2.2
20°-30°	1008.1	3.7
30°-40°	1549.0	5.6
40°-50°	2564.8	9.3
50°-60°	4559.7	16.6
60°-70°	7977.1	29.0
70°-80°	8116.0	29.5
80°-90°	945.1	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°	27531.0	100.0
0°-180°	27531.0	100.0

Coefficient of Utilization

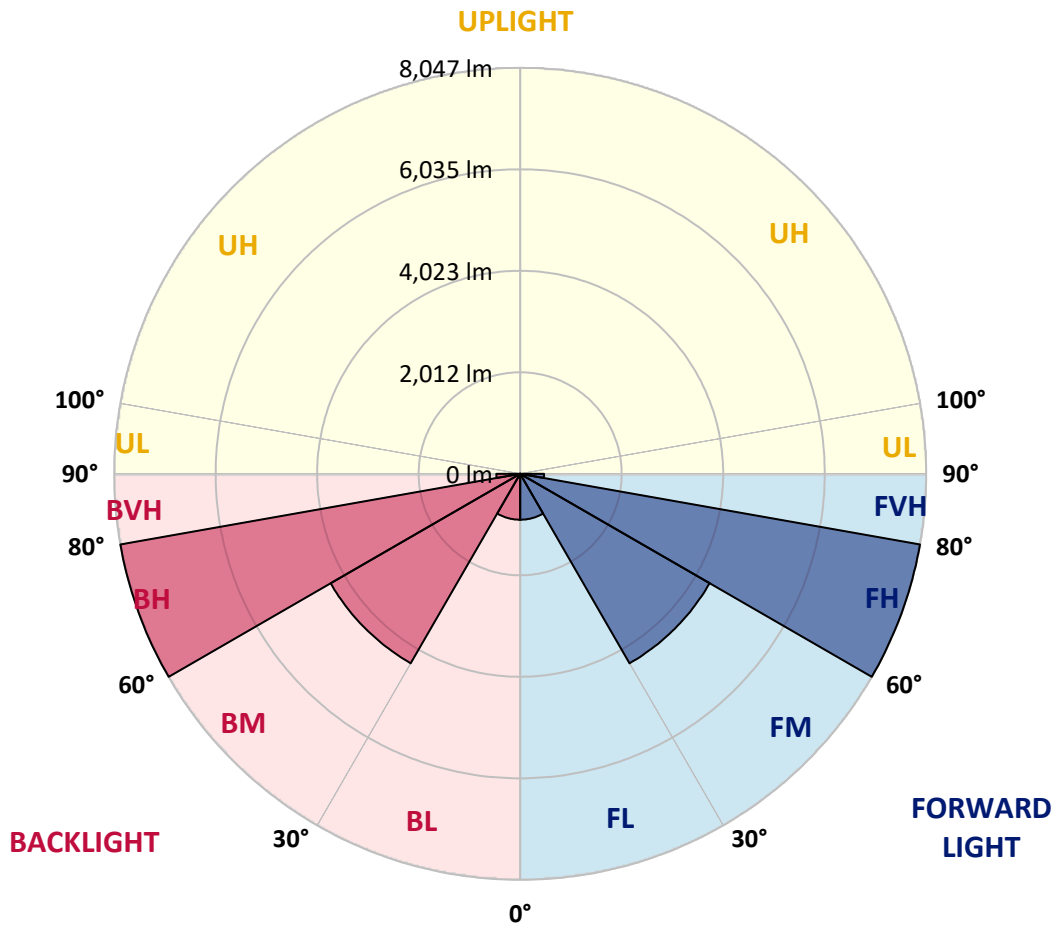


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.7	3.3			
FM (30°-60°)	4336.7	15.8			
FH (60°-80°)	8046.6	29.2			G4/12000
FVH (80°-90°)	472.5	1.7			G3/500
BL (0°-30°)	909.7	3.3	B2/1000		
BM (30°-60°)	4336.7	15.8	B3/5000		
BH (60°-80°)	8046.6	29.2	B5		G4/12000
BVH (80°-90°)	472.5	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°	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2	2269.2
2.5°	2248.2	2253.5	2243.0	2243.0	2243.0	2237.8	2243.0	2237.8	2243.0	2248.2	2248.2
5°	2227.3	2227.3	2216.8	2216.8	2216.8	2211.5	2216.8	2216.8	2222.0	2227.3	2227.3
7.5°	2180.1	2180.1	2174.9	2169.6	2164.4	2164.4	2169.6	2169.6	2174.9	2180.1	2180.1
10°	2153.9	2148.7	2138.2	2122.5	2117.2	2112.0	2122.5	2132.9	2148.7	2164.4	2159.1
12.5°	2143.4	2138.2	2117.2	2101.5	2091.0	2096.3	2106.7	2117.2	2143.4	2159.1	2153.9
15°	2153.9	2143.4	2117.2	2091.0	2096.3	2106.7	2117.2	2117.2	2148.7	2164.4	2164.4
17.5°	2153.9	2148.7	2117.2	2096.3	2101.5	2117.2	2122.5	2117.2	2143.4	2169.6	2169.6
20°	2159.1	2159.1	2117.2	2101.5	2106.7	2122.5	2127.7	2122.5	2143.4	2174.9	2174.9
22.5°	2169.6	2164.4	2122.5	2112.0	2122.5	2132.9	2138.2	2132.9	2153.9	2180.1	2185.3
25°	2190.6	2180.1	2143.4	2138.2	2159.1	2174.9	2174.9	2164.4	2174.9	2201.1	2201.1
27.5°	2216.8	2211.5	2169.6	2169.6	2195.8	2227.3	2211.5	2190.6	2201.1	2227.3	2227.3
30°	2264.0	2258.7	2216.8	2216.8	2253.5	2290.2	2253.5	2227.3	2243.0	2269.2	2274.4
32.5°	2332.1	2332.1	2295.4	2284.9	2347.8	2363.5	2347.8	2295.4	2305.9	2342.6	2342.6
35°	2447.4	2436.9	2400.2	2395.0	2457.9	2452.6	2447.4	2400.2	2410.7	2452.6	2452.6
37.5°	2599.4	2594.1	2562.7	2546.9	2578.4	2557.4	2567.9	2546.9	2573.2	2604.6	2609.8
40°	2793.3	2788.0	2761.8	2740.9	2751.3	2719.9	2730.4	2740.9	2767.1	2788.0	2793.3
42.5°	3034.3	3034.3	3008.1	2971.4	2955.7	2940.0	2940.0	2961.0	2987.2	3013.4	3013.4
45°	3333.0	3333.0	3301.6	3264.9	3217.7	3191.5	3202.0	3223.0	3254.4	3285.9	3296.4
47.5°	3684.2	3684.2	3642.2	3605.6	3558.4	3526.9	3526.9	3537.4	3584.6	3610.8	3626.5
50°	4077.2	4061.5	4019.6	3982.9	3956.7	3914.8	3920.0	3914.8	3956.7	3993.4	4003.8
52.5°	4486.0	4480.7	4438.8	4428.3	4444.1	4423.1	4423.1	4370.7	4386.4	4407.4	4402.1
55°	4994.3	4978.6	4941.9	4962.9	5025.8	5057.2	5046.7	4962.9	4915.7	4926.2	4921.0
57.5°	5549.8	5534.1	5523.6	5586.5	5728.0	5859.0	5832.8	5638.9	5549.8	5555.1	5560.3
60°	6115.8	6115.8	6147.3	6304.5	6608.4	6823.3	6744.7	6419.8	6262.6	6231.1	6220.6
62.5°	6697.5	6713.3	6781.4	7043.4	7509.8	7866.2	7667.0	7205.9	6970.0	6907.2	6886.2
65°	7373.6	7389.3	7488.9	7813.8	8432.2	8856.7	8516.0	8081.1	7750.9	7619.9	7598.9
67.5°	8353.6	8364.1	8442.7	8757.1	9338.8	9679.4	9328.3	8940.5	8584.2	8432.2	8421.7
70°	9234.0	9244.5	9312.6	9726.6	10261.2	10381.7	9993.9	9501.3	9129.2	9008.6	8987.7
72.5°	9034.9	9071.5	9296.9	9941.5	10764.3	10921.5	10103.9	9365.0	8767.6	8568.4	8505.5
75°	7578.0	7635.6	7992.0	8961.5	10271.6	10717.1	9454.1	8096.8	7205.9	6823.3	6723.7
77.5°	4423.1	4638.0	5251.1	6493.1	8364.1	9270.7	7787.6	5927.2	4428.3	3799.5	3589.8
80°	1210.6	1325.9	1771.3	2987.2	5245.9	6493.1	4968.1	2719.9	1467.4	1100.5	1021.9
82.5°	382.6	508.3	644.6	859.5	2059.6	3422.1	1844.7	801.8	628.9	518.8	461.2
85°	204.4	220.1	361.6	419.3	618.4	959.0	571.2	419.3	377.3	277.8	262.0
87.5°	104.8	110.1	204.4	204.4	272.5	225.3	246.3	225.3	214.9	136.3	120.5
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)