

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: P236719

Luminaire Tested: **ARCH-L-AF72-260-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236719
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-AF72-260-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28826.9 lumens
Efficiency: N/A
Efficacy: 110.4 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

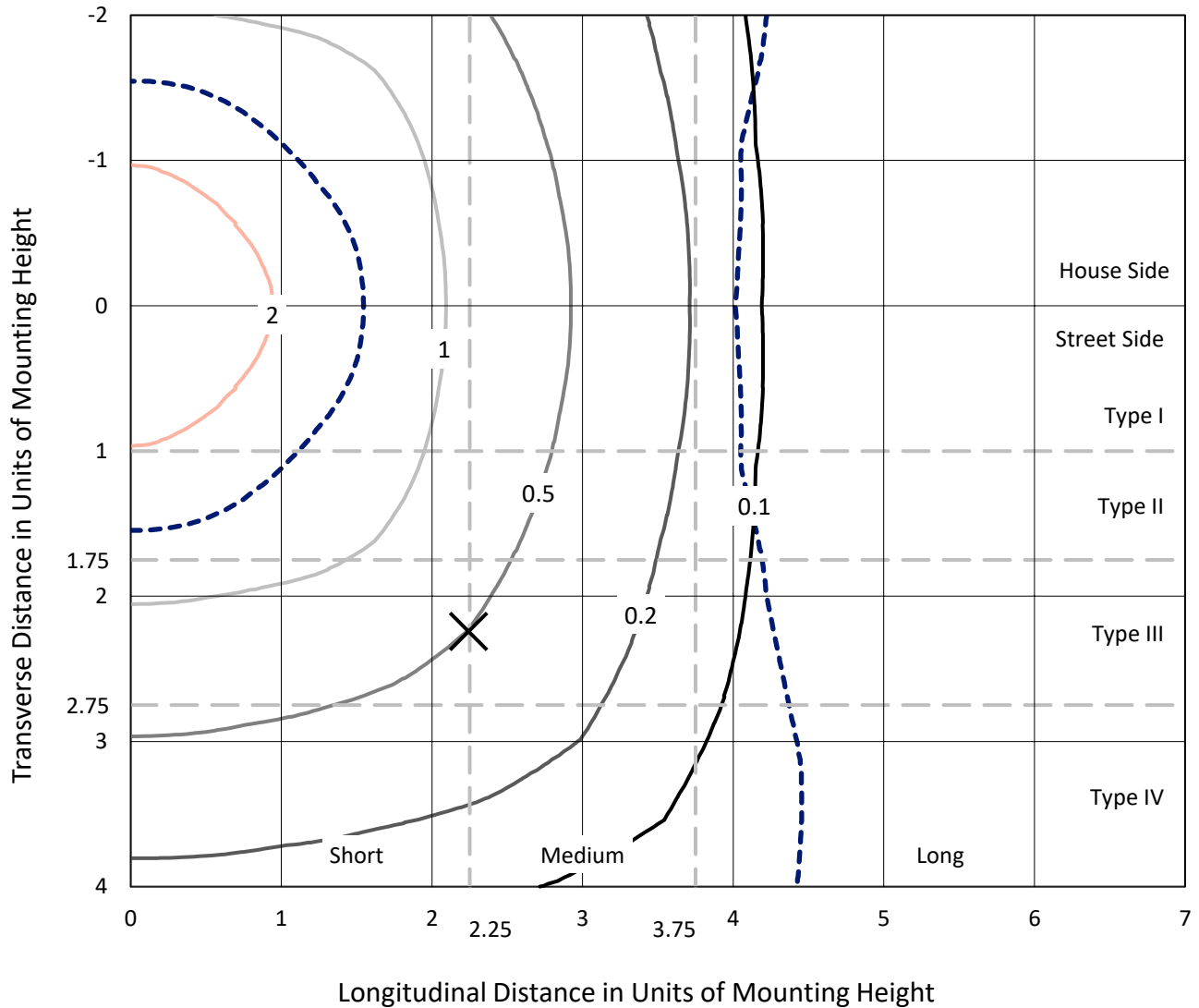
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236719
 CATALOG NUMBER: ARCH-L-AF72-260-D-U-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

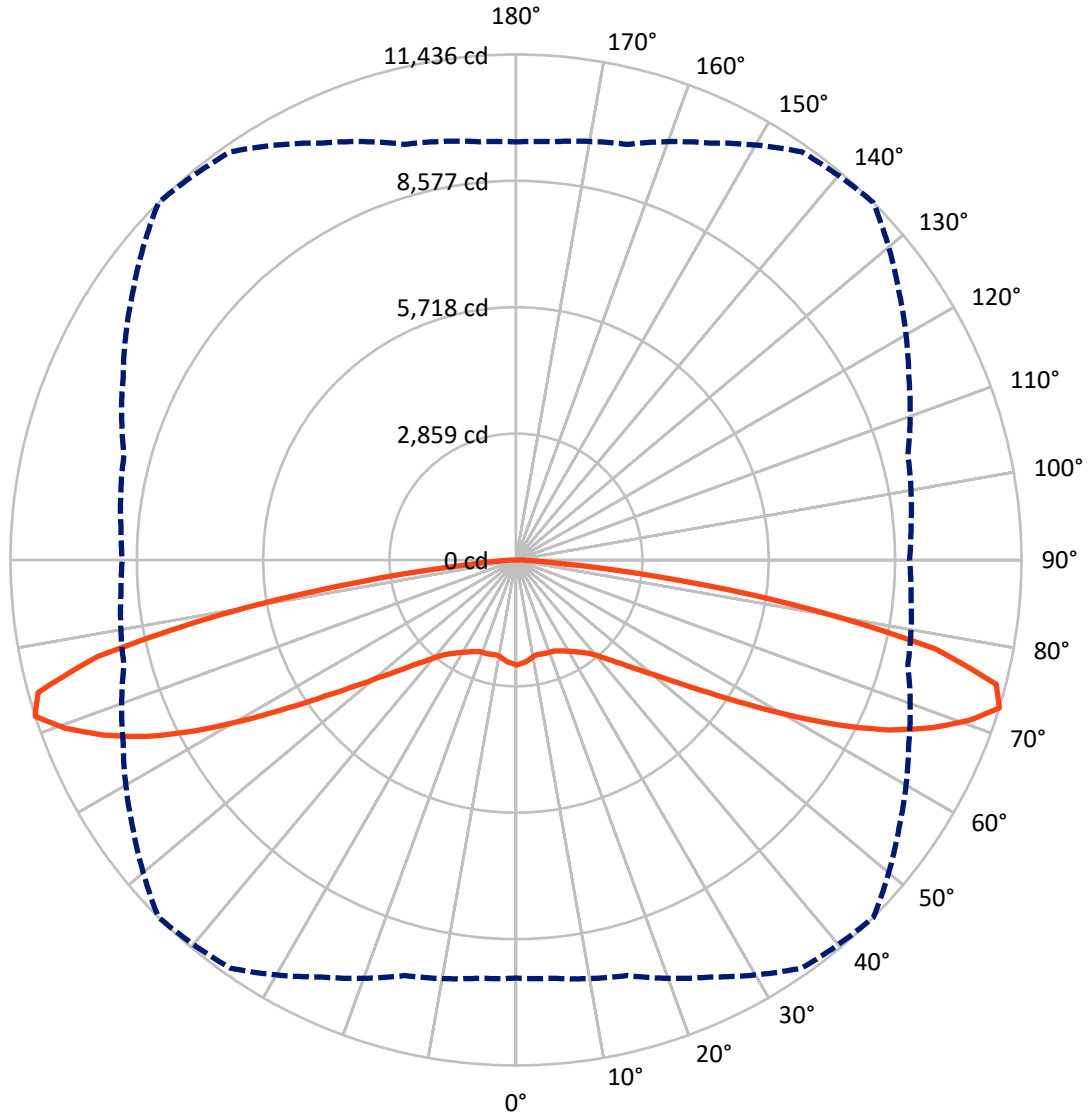
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P236719
CATALOG NUMBER: ARCH-L-AF72-260-D-U-5WQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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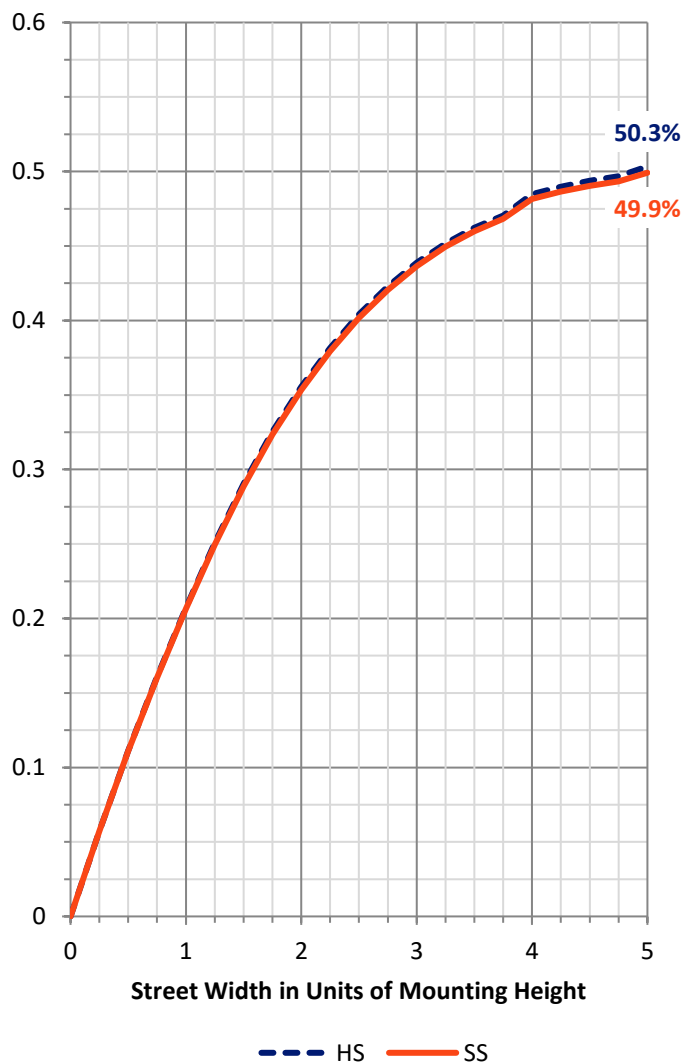
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14413.5	0.0	14413.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14413.5	0.0	14413.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28826.9	0.0	28826.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	0.8
10°-20°	630.8	2.2
20°-30°	1055.6	3.7
30°-40°	1621.9	5.6
40°-50°	2685.5	9.3
50°-60°	4774.3	16.6
60°-70°	8352.6	29.0
70°-80°	8498.1	29.5
80°-90°	989.5	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°	28826.9	100.0
0°-180°	28826.9	100.0



REPORT NUMBER: P236719

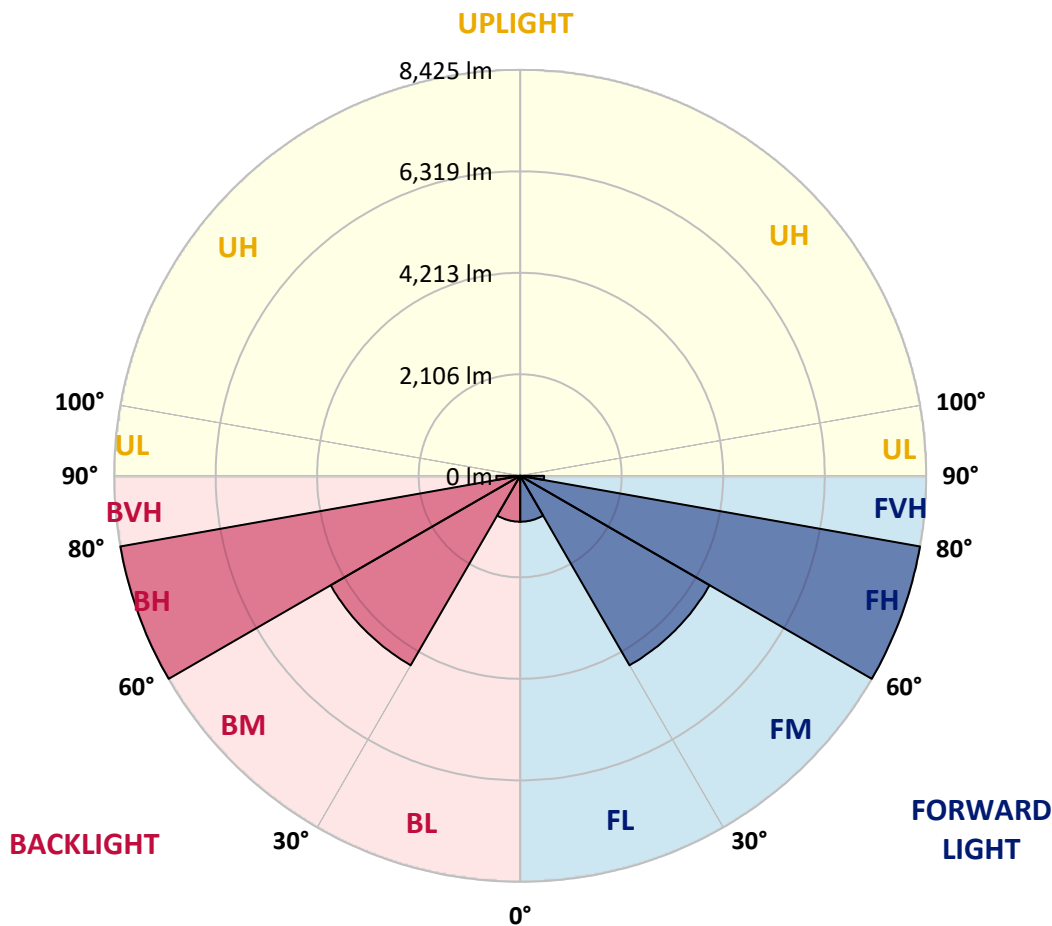
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.5	3.3			
FM (30°-60°)	4540.9	15.8			
FH (60°-80°)	8425.3	29.2			G4/12000
FVH (80°-90°)	494.8	1.7			G3/500
BL (0°-30°)	952.5	3.3	B2/1000		
BM (30°-60°)	4540.9	15.8	B3/5000		
BH (60°-80°)	8425.3	29.2	B5		G4/12000
BVH (80°-90°)	494.8	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°	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1	2376.1
2.5°	2354.1	2359.6	2348.5	2348.5	2348.5	2343.1	2348.5	2343.1	2348.5	2354.1	2354.1
5°	2332.1	2332.1	2321.1	2321.1	2321.1	2315.6	2321.1	2321.1	2326.6	2332.1	2332.1
7.5°	2282.8	2282.8	2277.3	2271.7	2266.2	2266.2	2271.7	2271.7	2277.3	2282.8	2282.8
10°	2255.3	2249.7	2238.8	2222.4	2216.9	2211.4	2222.4	2233.4	2249.7	2266.2	2260.8
12.5°	2244.3	2238.8	2216.9	2200.4	2189.4	2194.9	2206.0	2216.9	2244.3	2260.8	2255.3
15°	2255.3	2244.3	2216.9	2189.4	2194.9	2206.0	2216.9	2216.9	2249.7	2266.2	2266.2
17.5°	2255.3	2249.7	2216.9	2194.9	2200.4	2216.9	2222.4	2216.9	2244.3	2271.7	2271.7
20°	2260.8	2260.8	2216.9	2200.4	2206.0	2222.4	2227.9	2222.4	2244.3	2277.3	2277.3
22.5°	2271.7	2266.2	2222.4	2211.4	2222.4	2233.4	2238.8	2233.4	2255.3	2282.8	2288.2
25°	2293.7	2282.8	2244.3	2238.8	2260.8	2277.3	2277.3	2266.2	2277.3	2304.8	2304.8
27.5°	2321.1	2315.6	2271.7	2271.7	2299.2	2332.1	2315.6	2293.7	2304.8	2332.1	2332.1
30°	2370.5	2365.0	2321.1	2321.1	2359.6	2397.9	2359.6	2332.1	2348.5	2376.1	2381.6
32.5°	2441.8	2441.8	2403.4	2392.4	2458.4	2474.8	2458.4	2403.4	2414.4	2452.9	2452.9
35°	2562.5	2551.6	2513.2	2507.7	2573.6	2568.0	2562.5	2513.2	2524.2	2568.0	2568.0
37.5°	2721.7	2716.1	2683.3	2666.8	2699.8	2677.8	2688.8	2666.8	2694.3	2727.2	2732.7
40°	2924.8	2919.3	2891.9	2869.9	2880.8	2848.0	2858.9	2869.9	2897.3	2919.3	2924.8
42.5°	3177.2	3177.2	3149.7	3111.2	3094.9	3078.4	3078.4	3100.3	3127.8	3155.2	3155.2
45°	3490.0	3490.0	3457.0	3418.6	3369.2	3341.8	3352.7	3374.7	3407.6	3440.6	3451.5
47.5°	3857.6	3857.6	3813.7	3775.2	3725.8	3693.0	3693.0	3704.0	3753.4	3780.8	3797.2
50°	4269.1	4252.7	4208.7	4170.3	4142.9	4099.1	4104.6	4099.1	4142.9	4181.4	4192.3
52.5°	4697.2	4691.7	4647.8	4636.8	4653.3	4631.3	4631.3	4576.5	4592.9	4614.9	4609.3
55°	5229.3	5213.0	5174.5	5196.5	5262.4	5295.2	5284.4	5196.5	5147.1	5158.1	5152.5
57.5°	5811.1	5794.6	5783.6	5849.5	5997.7	6134.8	6107.4	5904.4	5811.1	5816.5	5822.1
60°	6403.6	6403.6	6436.7	6601.2	6919.5	7144.5	7062.2	6721.9	6557.3	6524.4	6513.5
62.5°	7012.8	7029.3	7100.6	7375.0	7863.4	8236.5	8028.0	7545.1	7298.2	7232.3	7210.3
65°	7720.7	7737.0	7841.4	8181.6	8829.1	9273.6	8916.8	8461.5	8115.8	7978.5	7956.6
67.5°	8746.8	8757.7	8840.0	9169.4	9778.3	10135.1	9767.4	9361.4	8988.2	8829.1	8818.1
70°	9668.7	9679.6	9751.0	10184.5	10744.2	10870.4	10464.3	9948.5	9558.9	9432.7	9410.7
72.5°	9460.1	9498.6	9734.6	10409.4	11270.9	11435.6	10579.6	9805.8	9180.3	8971.9	8905.9
75°	7934.6	7995.0	8368.1	9383.3	10755.2	11221.6	9899.1	8477.9	7545.1	7144.5	7040.2
77.5°	4631.3	4856.2	5498.3	6798.7	8757.7	9707.0	8154.1	6206.2	4636.8	3978.3	3758.8
80°	1267.6	1388.2	1854.6	3127.8	5492.8	6798.7	5202.0	2848.0	1536.4	1152.3	1069.9
82.5°	400.6	532.3	674.9	900.0	2156.6	3583.2	1931.4	839.5	658.5	543.2	482.9
85°	214.0	230.4	378.6	439.0	647.5	1004.2	598.0	439.0	395.1	290.8	274.3
87.5°	109.7	115.3	214.0	214.0	285.3	236.0	257.9	236.0	225.0	142.7	126.2
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)