

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: P236760

Luminaire Tested: **ARCH-L-AF72-270-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236760
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-AF72-270-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30623 lumens
Efficiency: N/A
Efficacy: 112.2 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

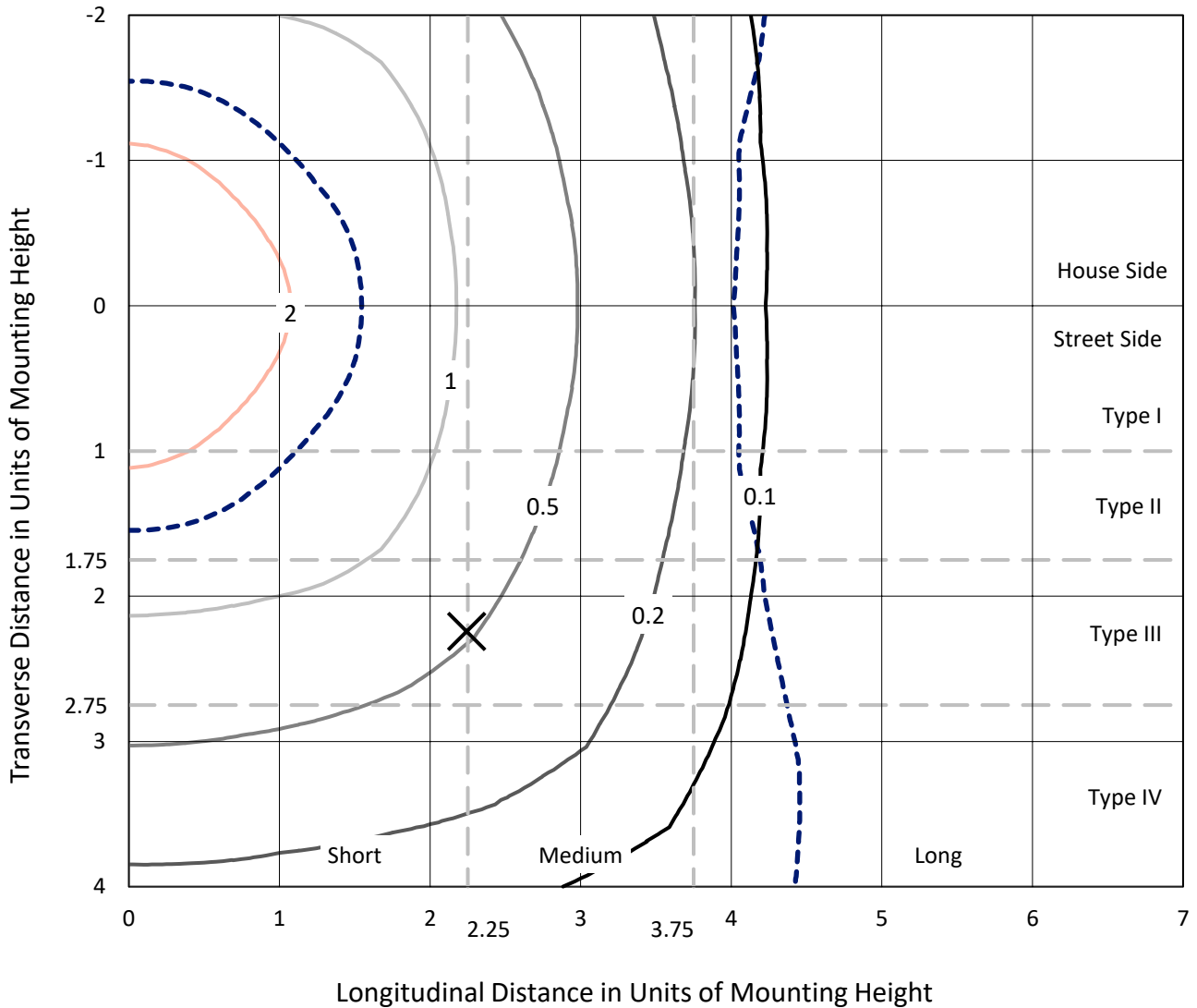
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

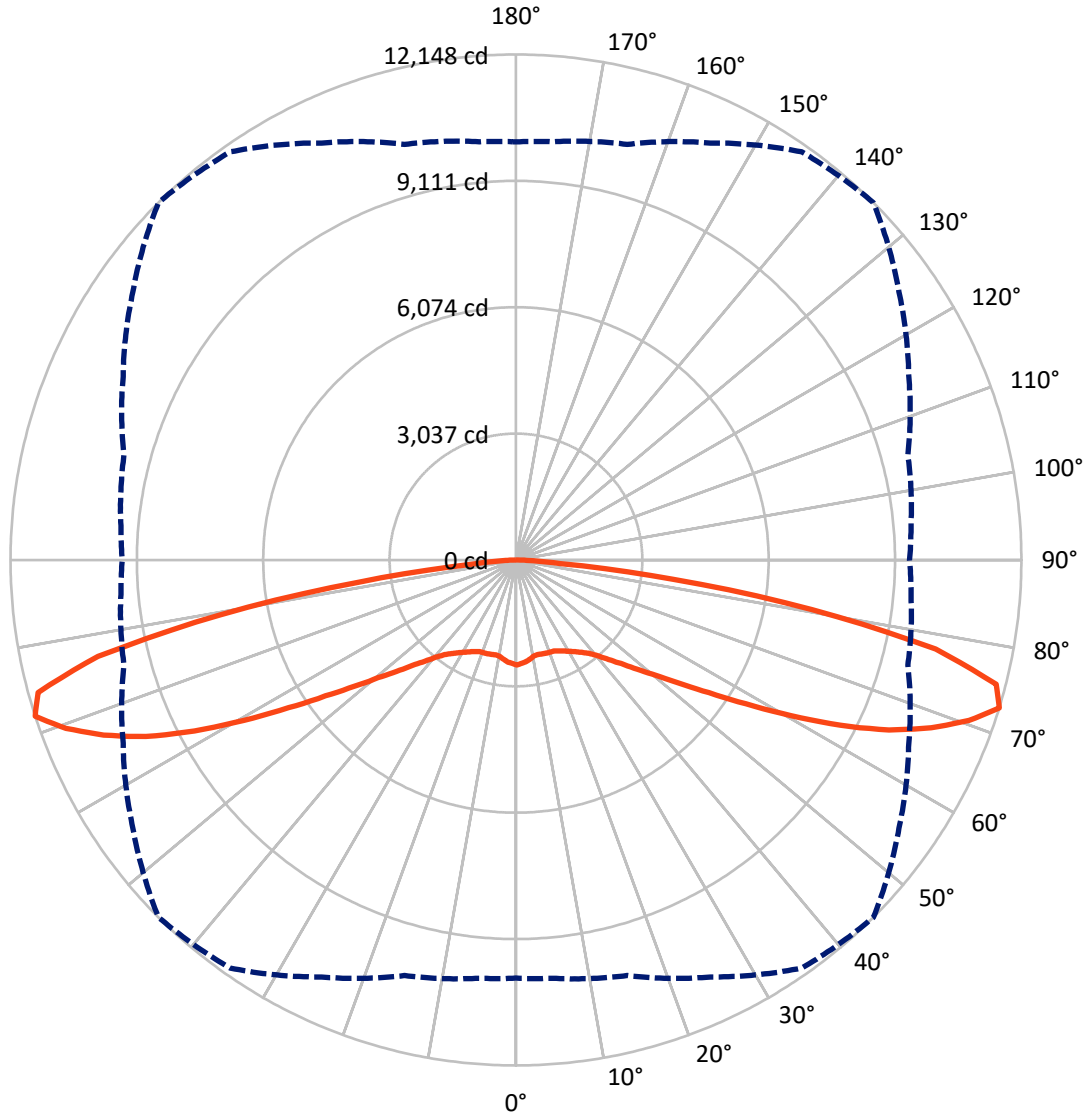
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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CATALOG NUMBER: ARCH-L-AF72-270-D-U-5WQ-7050

Luminous Intensity Polar Plot



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

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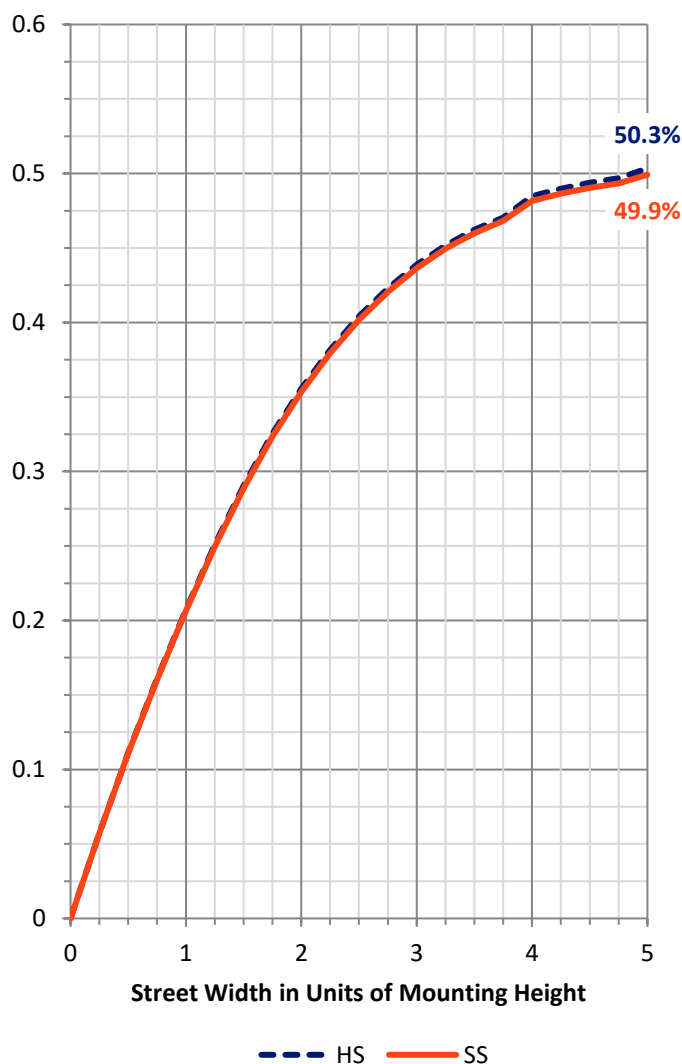
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15311.5	0.0	15311.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15311.5	0.0	15311.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30623.0	0.0	30623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	0.8
10°-20°	670.1	2.2
20°-30°	1121.4	3.7
30°-40°	1723.0	5.6
40°-50°	2852.8	9.3
50°-60°	5071.8	16.6
60°-70°	8873.0	29.0
70°-80°	9027.5	29.5
80°-90°	1051.2	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°	30623.0	100.0
0°-180°	30623.0	100.0

Coefficient of Utilization



REPORT NUMBER: P236760

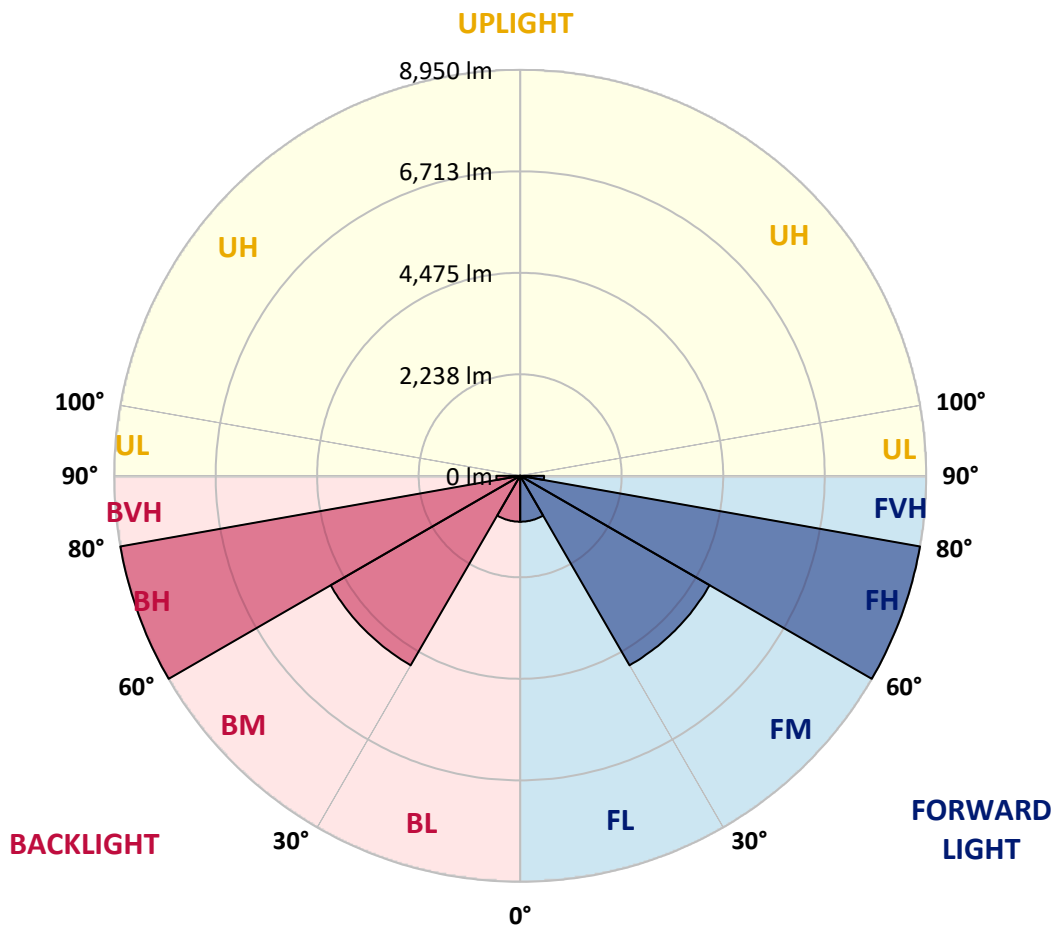
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.9	3.3			
FM (30°-60°)	4823.8	15.8			
FH (60°-80°)	8950.3	29.2			G4/12000
FVH (80°-90°)	525.6	1.7			G4/750
BL (0°-30°)	1011.9	3.3	B3/2500		
BM (30°-60°)	4823.8	15.8	B3/5000		
BH (60°-80°)	8950.3	29.2	B5		G4/12000
BVH (80°-90°)	525.6	1.7			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°	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0
2.5°	2500.7	2506.6	2494.9	2494.9	2494.9	2489.1	2494.9	2489.1	2494.9	2500.7	2500.7
5°	2477.4	2477.4	2465.8	2465.8	2465.8	2459.9	2465.8	2465.8	2471.6	2477.4	2477.4
7.5°	2425.0	2425.0	2419.1	2413.3	2407.5	2407.5	2413.3	2413.3	2419.1	2425.0	2425.0
10°	2395.8	2390.0	2378.3	2360.8	2355.0	2349.2	2360.8	2372.5	2390.0	2407.5	2401.6
12.5°	2384.1	2378.3	2355.0	2337.5	2325.9	2331.7	2343.3	2355.0	2384.1	2401.6	2395.8
15°	2395.8	2384.1	2355.0	2325.9	2331.7	2343.3	2355.0	2355.0	2390.0	2407.5	2407.5
17.5°	2395.8	2390.0	2355.0	2331.7	2337.5	2355.0	2360.8	2355.0	2384.1	2413.3	2413.3
20°	2401.6	2401.6	2355.0	2337.5	2343.3	2360.8	2366.7	2360.8	2384.1	2419.1	2419.1
22.5°	2413.3	2407.5	2360.8	2349.2	2360.8	2372.5	2378.3	2372.5	2395.8	2425.0	2430.8
25°	2436.6	2425.0	2384.1	2378.3	2401.6	2419.1	2419.1	2407.5	2419.1	2448.3	2448.3
27.5°	2465.8	2459.9	2413.3	2413.3	2442.4	2477.4	2459.9	2436.6	2448.3	2477.4	2477.4
30°	2518.2	2512.4	2465.8	2465.8	2506.6	2547.4	2506.6	2477.4	2494.9	2524.0	2529.9
32.5°	2594.0	2594.0	2553.2	2541.5	2611.5	2629.0	2611.5	2553.2	2564.9	2605.7	2605.7
35°	2722.2	2710.6	2669.8	2663.9	2733.9	2728.1	2722.2	2669.8	2681.4	2728.1	2728.1
37.5°	2891.3	2885.5	2850.5	2833.0	2868.0	2844.7	2856.3	2833.0	2862.1	2897.1	2902.9
40°	3107.0	3101.1	3072.0	3048.7	3060.3	3025.4	3037.0	3048.7	3077.8	3101.1	3107.0
42.5°	3375.1	3375.1	3346.0	3305.2	3287.7	3270.2	3270.2	3293.5	3322.6	3351.8	3351.8
45°	3707.4	3707.4	3672.4	3631.6	3579.1	3550.0	3561.6	3585.0	3619.9	3654.9	3666.6
47.5°	4097.9	4097.9	4051.3	4010.5	3958.0	3923.1	3923.1	3934.7	3987.2	4016.3	4033.8
50°	4535.1	4517.6	4471.0	4430.2	4401.1	4354.4	4360.2	4354.4	4401.1	4441.9	4453.5
52.5°	4989.8	4984.0	4937.3	4925.7	4943.2	4919.9	4919.9	4861.6	4879.0	4902.4	4896.5
55°	5555.2	5537.7	5496.9	5520.3	5590.2	5625.2	5613.5	5520.3	5467.8	5479.5	5473.6
57.5°	6173.1	6155.6	6144.0	6213.9	6371.3	6517.1	6487.9	6272.2	6173.1	6179.0	6184.8
60°	6802.7	6802.7	6837.7	7012.5	7350.6	7589.6	7502.2	7140.8	6965.9	6930.9	6919.3
62.5°	7449.7	7467.2	7543.0	7834.5	8353.3	8749.6	8528.1	8015.2	7752.8	7682.9	7659.6
65°	8201.7	8219.2	8329.9	8691.3	9379.2	9851.4	9472.5	8988.6	8621.4	8475.7	8452.4
67.5°	9291.8	9303.4	9390.9	9740.6	10387.6	10766.5	10376.0	9944.6	9548.2	9379.2	9367.5
70°	10271.1	10282.7	10358.5	10819.0	11413.6	11547.7	11116.3	10568.4	10154.5	10020.4	9997.1
72.5°	10049.6	10090.4	10341.0	11058.0	11973.2	12148.1	11238.7	10416.8	9752.3	9530.8	9460.8
75°	8429.0	8493.2	8889.5	9967.9	11425.2	11920.7	10515.9	9006.1	8015.2	7589.6	7478.9
77.5°	4919.9	5158.8	5840.9	7222.4	9303.4	10311.9	8662.2	6592.8	4925.7	4226.2	3993.0
80°	1346.5	1474.8	1970.3	3322.6	5835.0	7222.4	5526.1	3025.4	1632.2	1224.1	1136.7
82.5°	425.5	565.4	717.0	956.0	2290.9	3806.5	2051.9	891.9	699.5	577.1	513.0
85°	227.3	244.8	402.2	466.3	687.8	1066.7	635.4	466.3	419.7	308.9	291.5
87.5°	116.6	122.4	227.3	227.3	303.1	250.7	274.0	250.7	239.0	151.6	134.1
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)