

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: P236713

Luminaire Tested: **ARCH-L-AF72-200-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236713
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-AF72-200-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24350.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

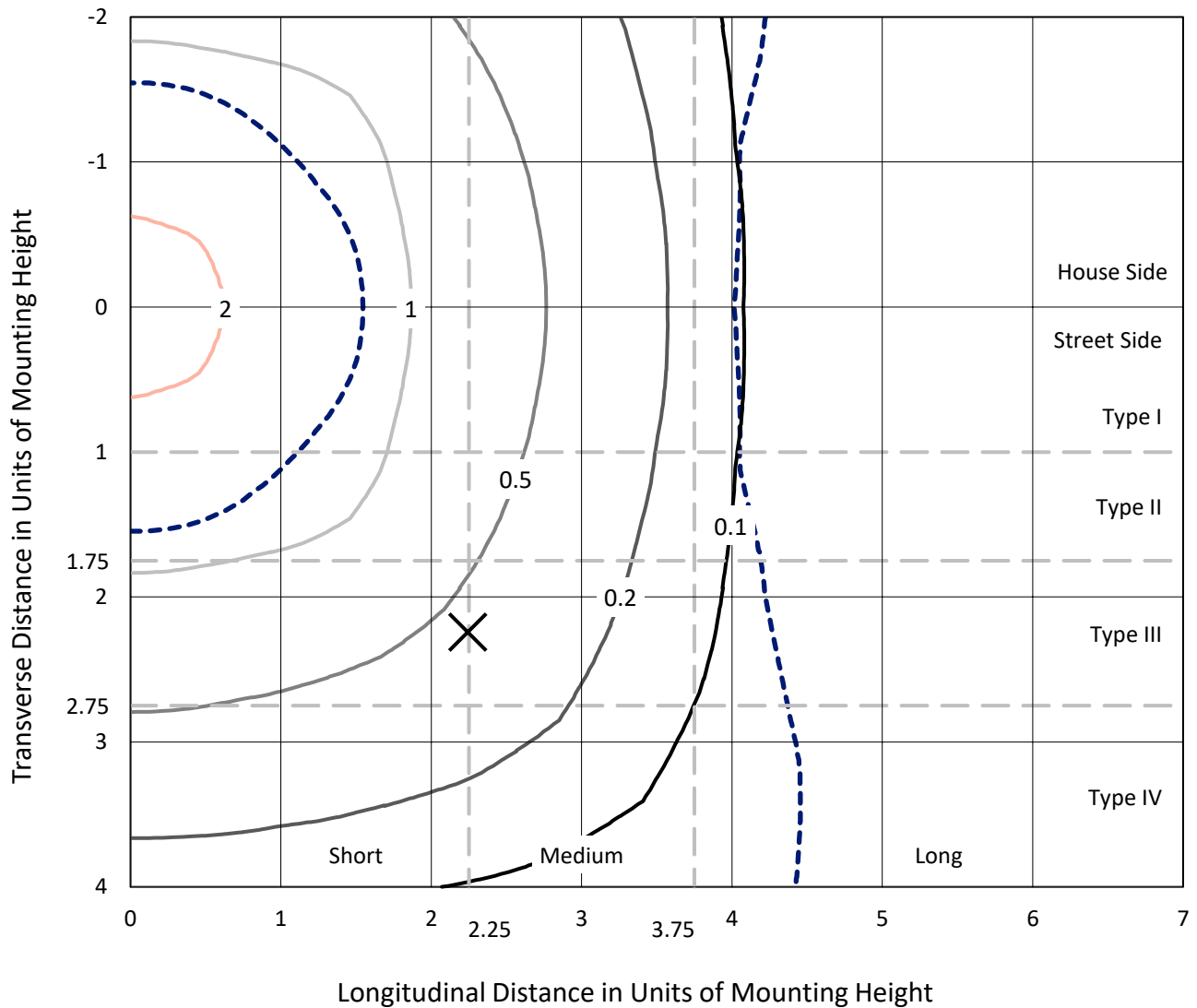
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

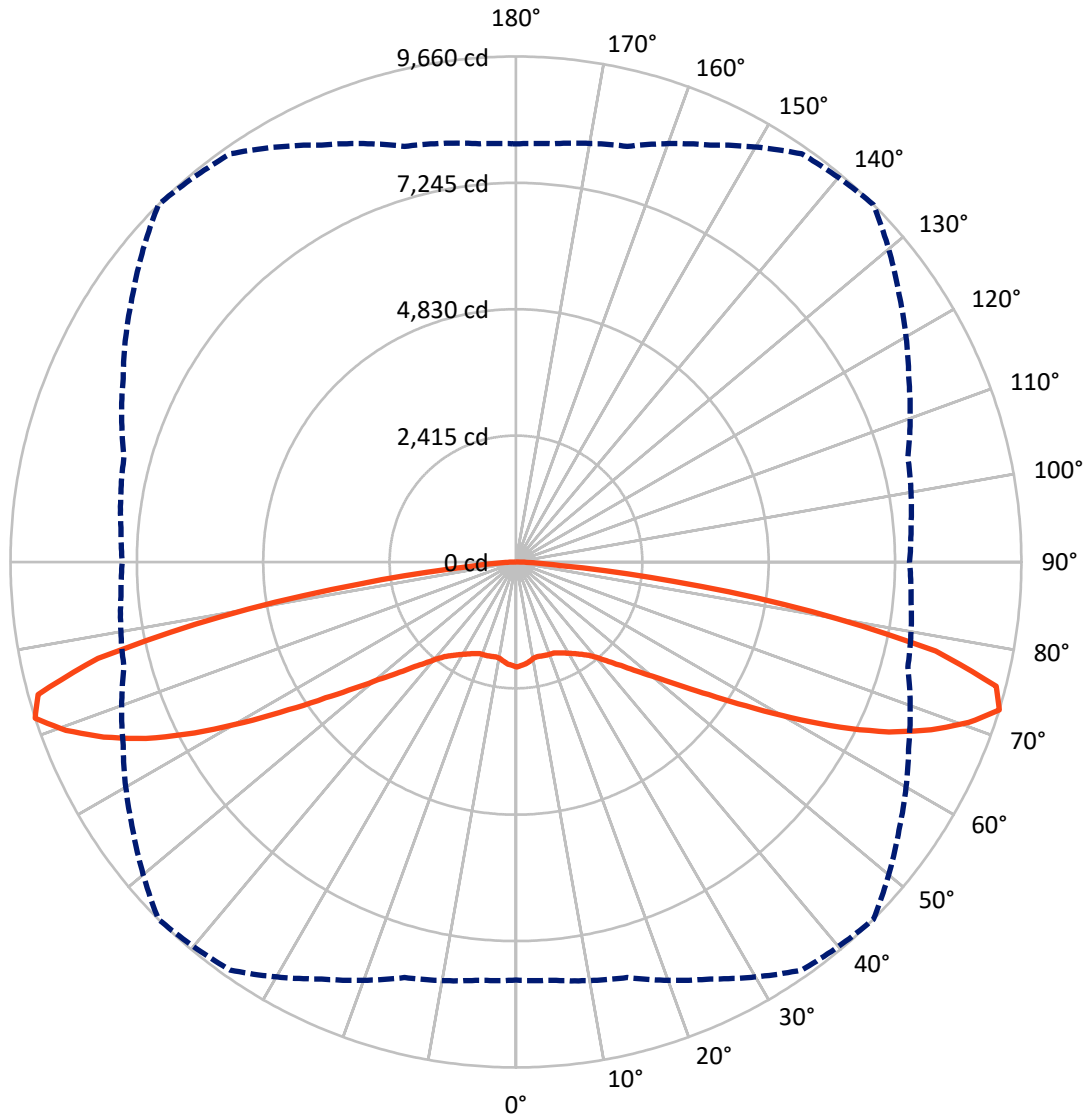
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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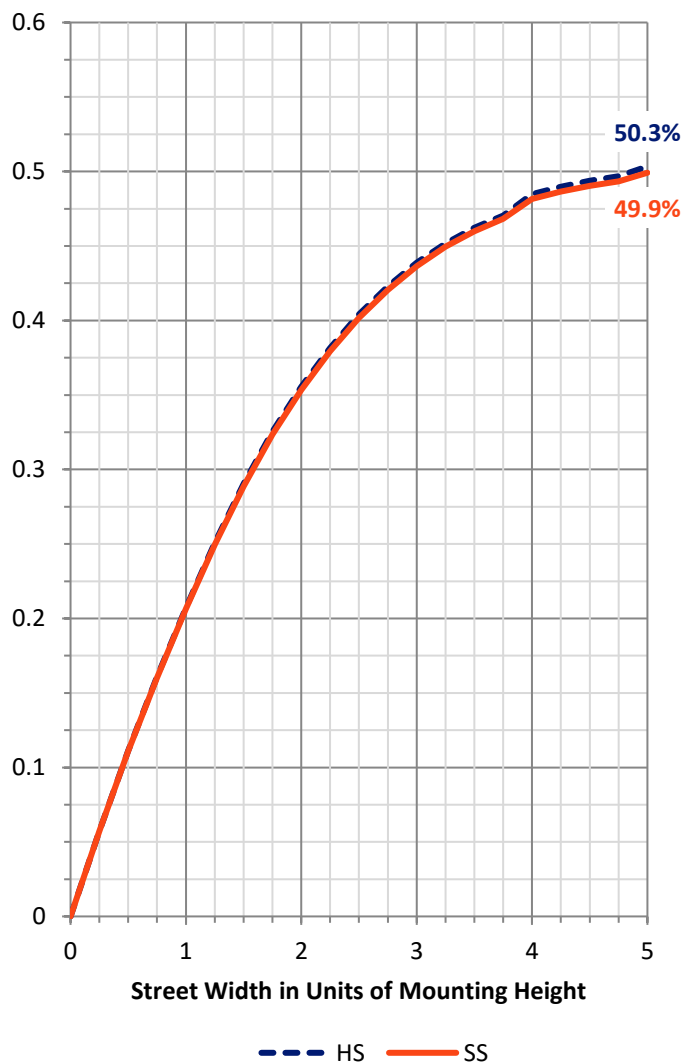
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12175.3	0.0	12175.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12175.3	0.0	12175.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24350.6	0.0	24350.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	0.8
10°-20°	532.8	2.2
20°-30°	891.7	3.7
30°-40°	1370.1	5.6
40°-50°	2268.5	9.3
50°-60°	4032.9	16.6
60°-70°	7055.5	29.0
70°-80°	7178.4	29.5
80°-90°	835.9	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°	24350.6	100.0
0°-180°	24350.6	100.0

Coefficient of Utilization



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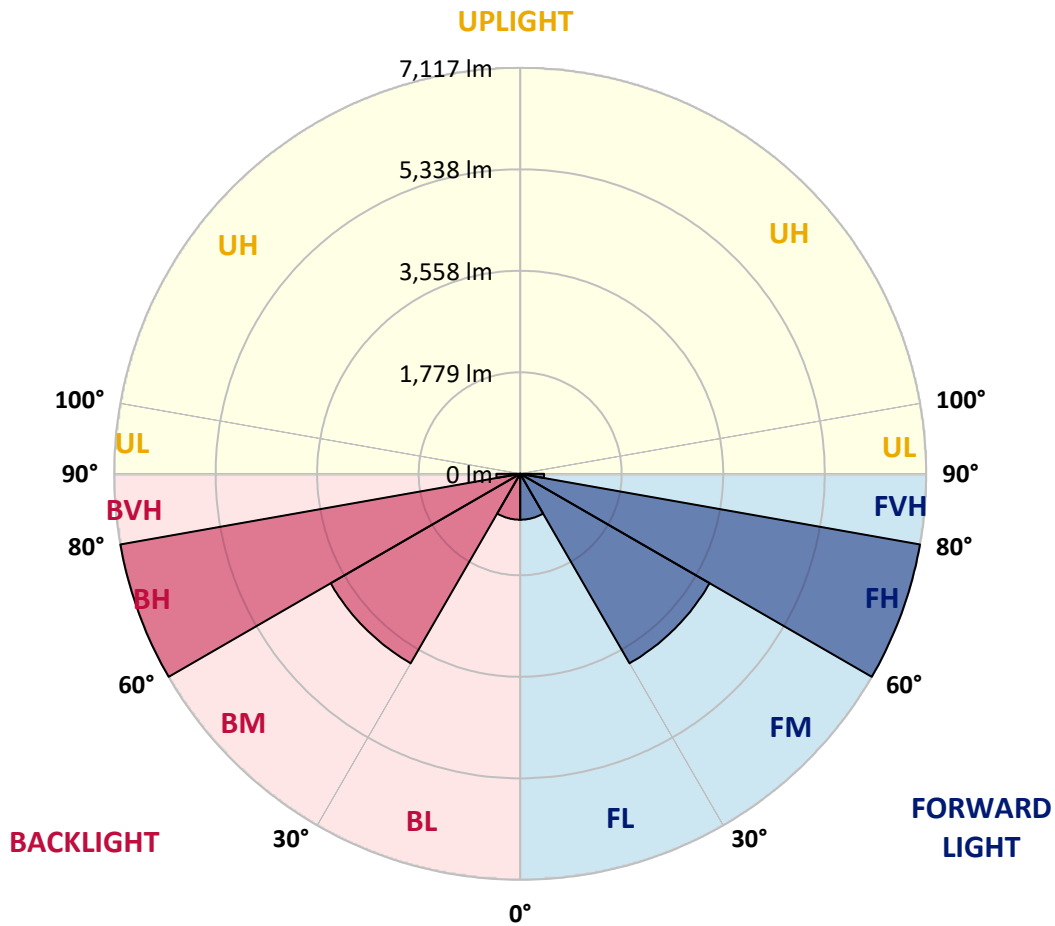
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.6	3.3			
FM (30°-60°)	3835.8	15.8			
FH (60°-80°)	7117.0	29.2			G3/7500
FVH (80°-90°)	418.0	1.7			G3/500
BL (0°-30°)	804.6	3.3	B2/1000		
BM (30°-60°)	3835.8	15.8	B3/5000		
BH (60°-80°)	7117.0	29.2	B5		G3/7500
BVH (80°-90°)	418.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1	2007.1
2.5°	1988.5	1993.1	1983.9	1983.9	1983.9	1979.2	1983.9	1979.2	1983.9	1988.5	1988.5
5°	1970.0	1970.0	1960.6	1960.6	1960.6	1956.1	1960.6	1960.6	1965.3	1970.0	1970.0
7.5°	1928.2	1928.2	1923.6	1919.0	1914.3	1914.3	1919.0	1919.0	1923.6	1928.2	1928.2
10°	1905.1	1900.4	1891.2	1877.3	1872.6	1868.0	1877.3	1886.6	1900.4	1914.3	1909.8
12.5°	1895.7	1891.2	1872.6	1858.7	1849.4	1854.1	1863.4	1872.6	1895.7	1909.8	1905.1
15°	1905.1	1895.7	1872.6	1849.4	1854.1	1863.4	1872.6	1872.6	1900.4	1914.3	1914.3
17.5°	1905.1	1900.4	1872.6	1854.1	1858.7	1872.6	1877.3	1872.6	1895.7	1919.0	1919.0
20°	1909.8	1909.8	1872.6	1858.7	1863.4	1877.3	1881.9	1877.3	1895.7	1923.6	1923.6
22.5°	1919.0	1914.3	1877.3	1868.0	1877.3	1886.6	1891.2	1886.6	1905.1	1928.2	1932.9
25°	1937.5	1928.2	1895.7	1891.2	1909.8	1923.6	1923.6	1914.3	1923.6	1946.8	1946.8
27.5°	1960.6	1956.1	1919.0	1919.0	1942.2	1970.0	1956.1	1937.5	1946.8	1970.0	1970.0
30°	2002.4	1997.8	1960.6	1960.6	1993.1	2025.5	1993.1	1970.0	1983.9	2007.1	2011.7
32.5°	2062.7	2062.7	2030.2	2021.0	2076.6	2090.4	2076.6	2030.2	2039.6	2072.0	2072.0
35°	2164.7	2155.3	2122.9	2118.3	2173.9	2169.4	2164.7	2122.9	2132.2	2169.4	2169.4
37.5°	2299.1	2294.5	2266.6	2252.7	2280.6	2262.0	2271.3	2252.7	2275.9	2303.7	2308.3
40°	2470.6	2466.0	2442.8	2424.3	2433.5	2405.7	2414.9	2424.3	2447.4	2466.0	2470.6
42.5°	2683.9	2683.9	2660.6	2628.2	2614.2	2600.4	2600.4	2619.0	2642.1	2665.3	2665.3
45°	2948.1	2948.1	2920.2	2887.7	2845.9	2822.8	2832.1	2850.7	2878.4	2906.3	2915.6
47.5°	3258.5	3258.5	3221.5	3189.1	3147.3	3119.5	3119.5	3128.7	3170.4	3193.6	3207.7
50°	3606.2	3592.3	3555.2	3522.7	3499.6	3462.5	3467.2	3462.5	3499.6	3532.1	3541.3
52.5°	3967.7	3963.2	3926.0	3916.7	3930.7	3912.1	3912.1	3865.8	3879.7	3898.3	3893.6
55°	4417.4	4403.4	4371.0	4389.6	4445.2	4473.0	4463.7	4389.6	4347.9	4357.2	4352.5
57.5°	4908.7	4894.9	4885.5	4941.1	5066.4	5182.1	5159.0	4987.4	4908.7	4913.4	4918.0
60°	5409.3	5409.3	5437.2	5576.1	5845.1	6035.1	5965.5	5678.2	5539.1	5511.2	5502.0
62.5°	5923.8	5937.7	5998.0	6229.8	6642.3	6957.5	6781.4	6373.4	6164.9	6109.2	6090.6
65°	6521.8	6535.7	6623.8	6911.0	7458.0	7833.6	7532.3	7147.5	6855.5	6739.6	6721.1
67.5°	7388.5	7397.8	7467.4	7745.5	8260.0	8561.2	8250.7	7907.7	7592.5	7458.0	7448.9
70°	8167.2	8176.5	8236.8	8603.0	9075.8	9182.3	8839.4	8403.6	8074.6	7967.9	7949.3
72.5°	7991.1	8023.6	8222.9	8793.0	9520.8	9659.8	8936.8	8283.2	7754.7	7578.7	7522.9
75°	6702.5	6753.6	7068.7	7926.2	9085.0	9479.0	8361.9	7161.4	6373.4	6035.1	5947.0
77.5°	3912.1	4102.1	4644.5	5743.1	7397.8	8199.7	6887.9	5242.5	3916.7	3360.6	3175.2
80°	1070.7	1172.7	1566.7	2642.1	4639.9	5743.1	4394.2	2405.7	1297.9	973.4	903.9
82.5°	338.3	449.6	570.2	760.2	1821.7	3026.8	1631.6	709.2	556.2	458.9	407.9
85°	180.9	194.7	319.8	370.8	547.0	848.3	505.3	370.8	333.8	245.7	231.7
87.5°	92.7	97.4	180.9	180.9	241.0	199.3	217.9	199.3	190.0	120.5	106.6
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)