

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: P236749

Luminaire Tested: **ARCH-L-AF72-160-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236749
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-AF72-160-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21626 lumens
Efficiency: N/A
Efficacy: 133.5 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

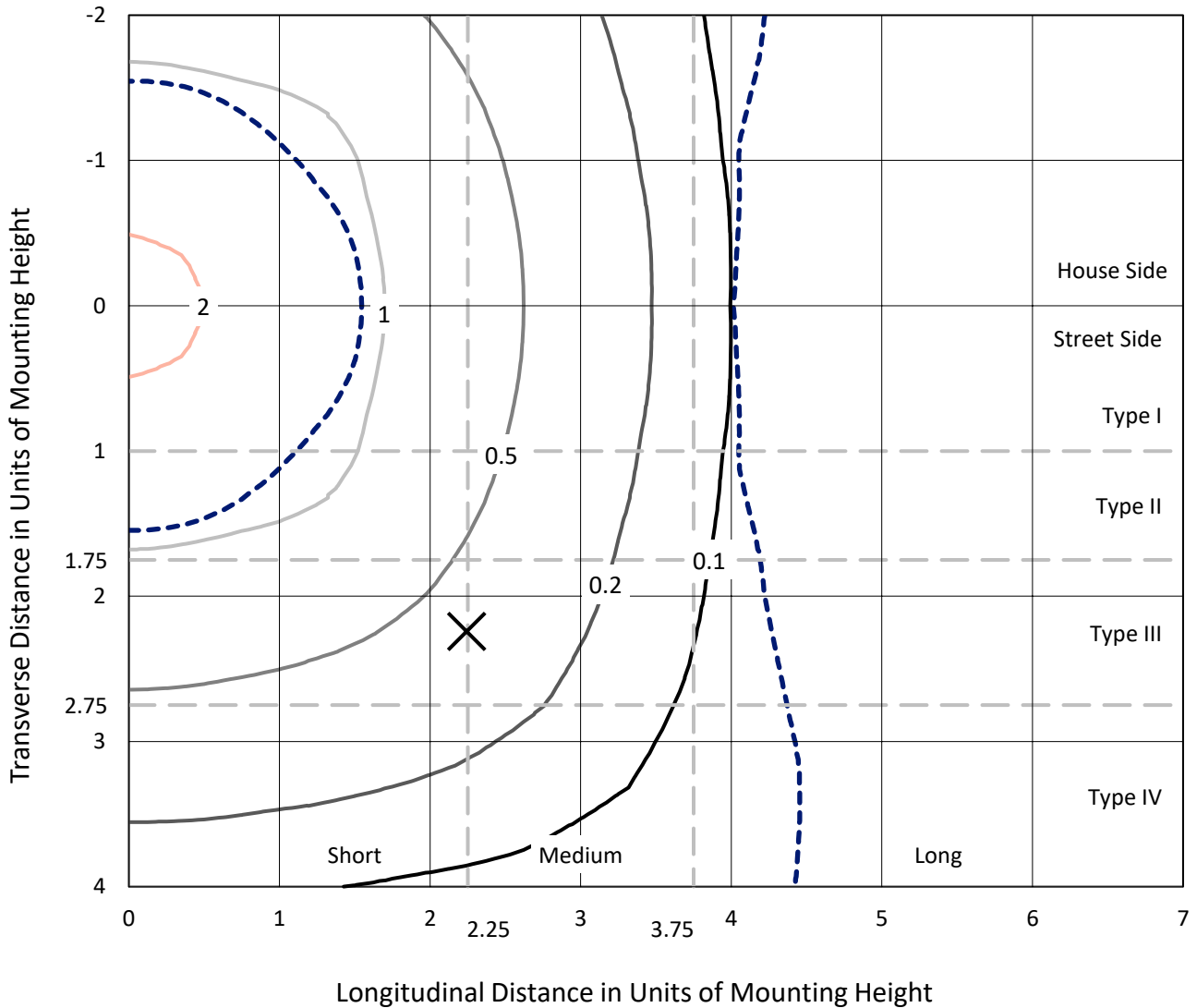
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

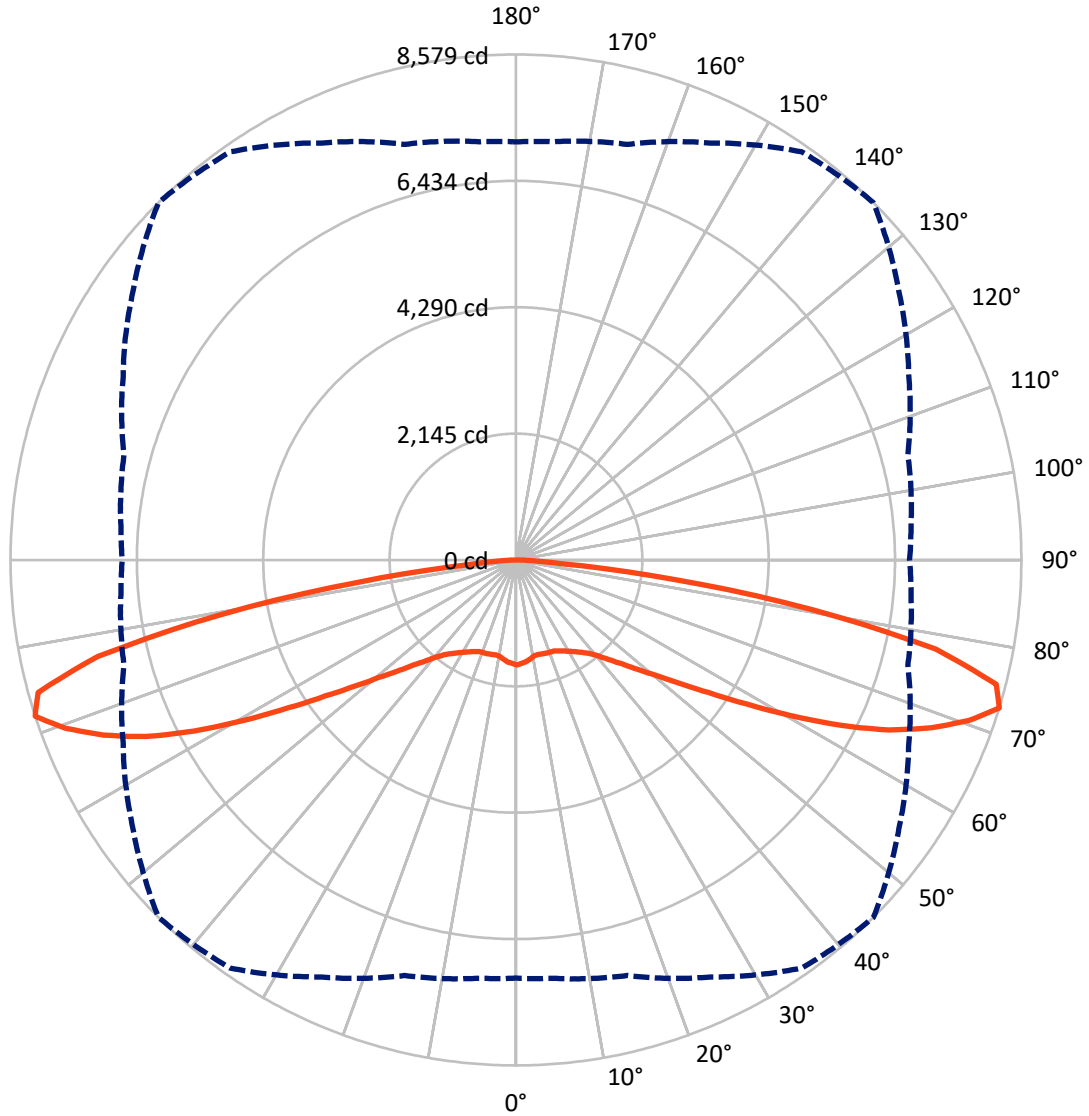
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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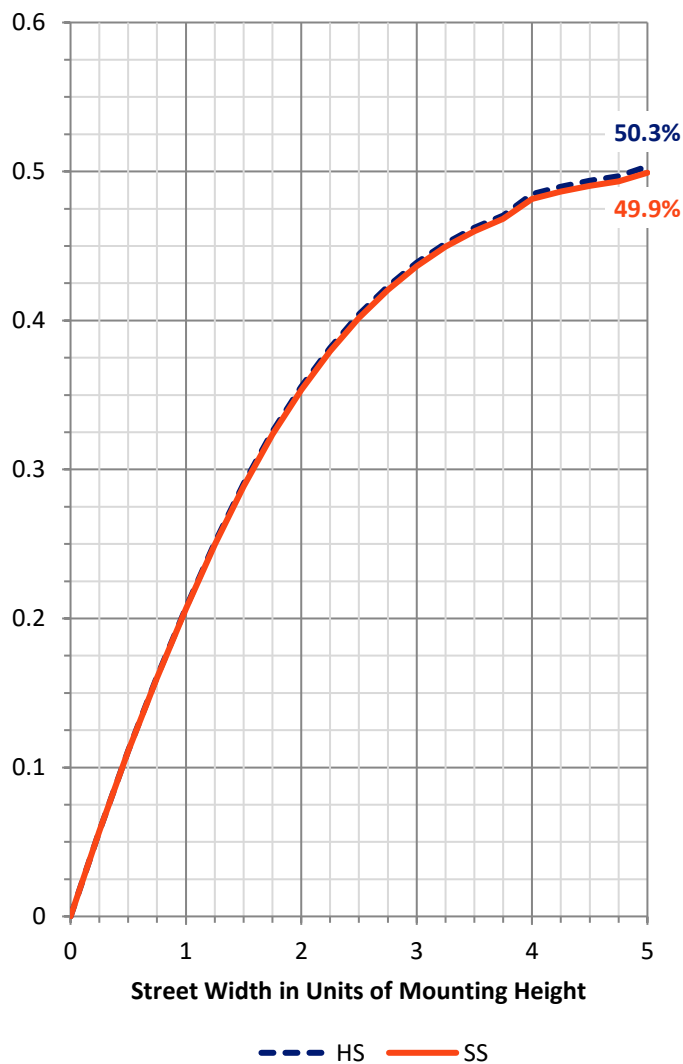
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10813.0	0.0	10813.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10813.0	0.0	10813.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21626.0	0.0	21626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	0.8
10°-20°	473.2	2.2
20°-30°	791.9	3.7
30°-40°	1216.8	5.6
40°-50°	2014.7	9.3
50°-60°	3581.7	16.6
60°-70°	6266.1	29.0
70°-80°	6375.3	29.5
80°-90°	742.3	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°	21626.0	100.0
0°-180°	21626.0	100.0

Coefficient of Utilization



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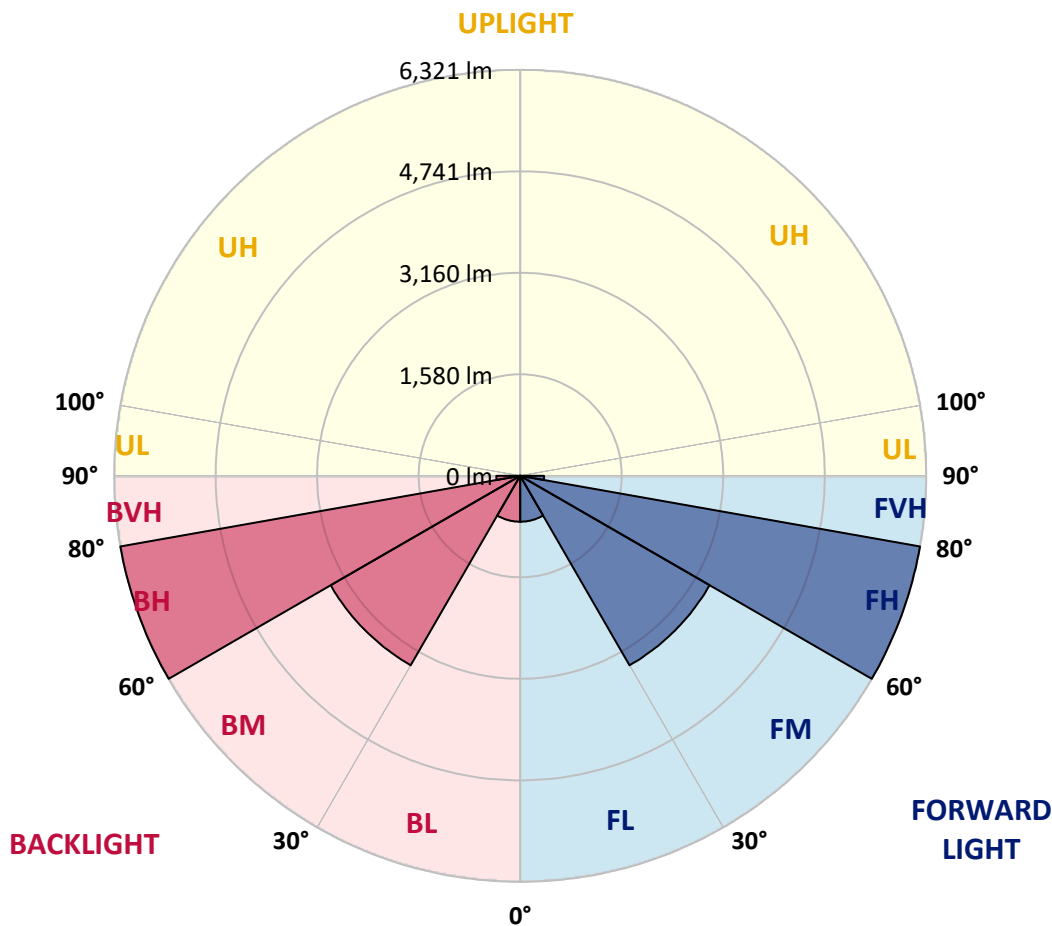
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.6	3.3			
FM (30°-60°)	3406.6	15.8			
FH (60°-80°)	6320.7	29.2			G3/7500
FVH (80°-90°)	371.2	1.7			G3/500
BL (0°-30°)	714.6	3.3	B2/1000		
BM (30°-60°)	3406.6	15.8	B3/5000		
BH (60°-80°)	6320.7	29.2	B5		G3/7500
BVH (80°-90°)	371.2	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°	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5	1782.5
2.5°	1766.0	1770.1	1761.9	1761.9	1761.9	1757.8	1761.9	1757.8	1761.9	1766.0	1766.0
5°	1749.6	1749.6	1741.3	1741.3	1741.3	1737.2	1741.3	1741.3	1745.4	1749.6	1749.6
7.5°	1712.5	1712.5	1708.4	1704.3	1700.2	1700.2	1704.3	1704.3	1708.4	1712.5	1712.5
10°	1691.9	1687.8	1679.6	1667.2	1663.1	1659.0	1667.2	1675.5	1687.8	1700.2	1696.0
12.5°	1683.7	1679.6	1663.1	1650.8	1642.5	1646.6	1654.9	1663.1	1683.7	1696.0	1691.9
15°	1691.9	1683.7	1663.1	1642.5	1646.6	1654.9	1663.1	1663.1	1687.8	1700.2	1700.2
17.5°	1691.9	1687.8	1663.1	1646.6	1650.8	1663.1	1667.2	1663.1	1683.7	1704.3	1704.3
20°	1696.0	1696.0	1663.1	1650.8	1654.9	1667.2	1671.3	1667.2	1683.7	1708.4	1708.4
22.5°	1704.3	1700.2	1667.2	1659.0	1667.2	1675.5	1679.6	1675.5	1691.9	1712.5	1716.6
25°	1720.7	1712.5	1683.7	1679.6	1696.0	1708.4	1708.4	1700.2	1708.4	1729.0	1729.0
27.5°	1741.3	1737.2	1704.3	1704.3	1724.9	1749.6	1737.2	1720.7	1729.0	1749.6	1749.6
30°	1778.4	1774.3	1741.3	1741.3	1770.1	1799.0	1770.1	1749.6	1761.9	1782.5	1786.6
32.5°	1831.9	1831.9	1803.1	1794.8	1844.2	1856.6	1844.2	1803.1	1811.3	1840.1	1840.1
35°	1922.4	1914.2	1885.4	1881.3	1930.7	1926.6	1922.4	1885.4	1893.6	1926.6	1926.6
37.5°	2041.8	2037.7	2013.0	2000.7	2025.4	2008.9	2017.1	2000.7	2021.2	2045.9	2050.1
40°	2194.1	2190.0	2169.4	2153.0	2161.2	2136.5	2144.7	2153.0	2173.6	2190.0	2194.1
42.5°	2383.5	2383.5	2362.9	2334.1	2321.8	2309.4	2309.4	2325.9	2346.5	2367.0	2367.0
45°	2618.2	2618.2	2593.5	2564.6	2527.6	2507.0	2515.2	2531.7	2556.4	2581.1	2589.3
47.5°	2894.0	2894.0	2861.0	2832.2	2795.2	2770.5	2770.5	2778.7	2815.7	2836.3	2848.7
50°	3202.7	3190.4	3157.4	3128.6	3108.0	3075.1	3079.2	3075.1	3108.0	3136.8	3145.1
52.5°	3523.8	3519.7	3486.8	3478.5	3490.9	3474.4	3474.4	3433.2	3445.6	3462.1	3457.9
55°	3923.1	3910.8	3881.9	3898.4	3947.8	3972.5	3964.3	3898.4	3861.4	3869.6	3865.5
57.5°	4359.5	4347.1	4338.9	4388.3	4499.4	4602.4	4581.8	4429.5	4359.5	4363.6	4367.7
60°	4804.1	4804.1	4828.8	4952.3	5191.0	5359.8	5298.1	5042.8	4919.3	4894.6	4886.4
62.5°	5261.0	5273.4	5326.9	5532.7	5899.1	6179.0	6022.6	5660.3	5475.1	5425.7	5409.2
65°	5792.0	5804.4	5882.6	6137.8	6623.6	6957.0	6689.5	6347.8	6088.4	5985.5	5969.1
67.5°	6561.8	6570.1	6631.8	6878.8	7335.8	7603.3	7327.5	7022.9	6743.0	6623.6	6615.4
70°	7253.4	7261.7	7315.2	7640.4	8060.3	8155.0	7850.3	7463.4	7171.1	7076.4	7060.0
72.5°	7097.0	7125.8	7302.8	7809.2	8455.5	8579.0	7936.8	7356.4	6887.1	6730.6	6681.2
75°	5952.6	5997.9	6277.8	7039.4	8068.5	8418.4	7426.3	6360.1	5660.3	5359.8	5281.6
77.5°	3474.4	3643.2	4124.8	5100.5	6570.1	7282.3	6117.3	4655.9	3478.5	2984.5	2819.9
80°	950.9	1041.5	1391.4	2346.5	4120.7	5100.5	3902.5	2136.5	1152.6	864.5	802.7
82.5°	300.5	399.3	506.3	675.1	1617.8	2688.1	1449.0	629.8	494.0	407.5	362.3
85°	160.5	172.9	284.0	329.3	485.8	753.3	448.7	329.3	296.4	218.2	205.8
87.5°	82.3	86.4	160.5	160.5	214.1	177.0	193.5	177.0	168.8	107.0	94.7
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)