

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: P236729

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-160-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 22122.4 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 162
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

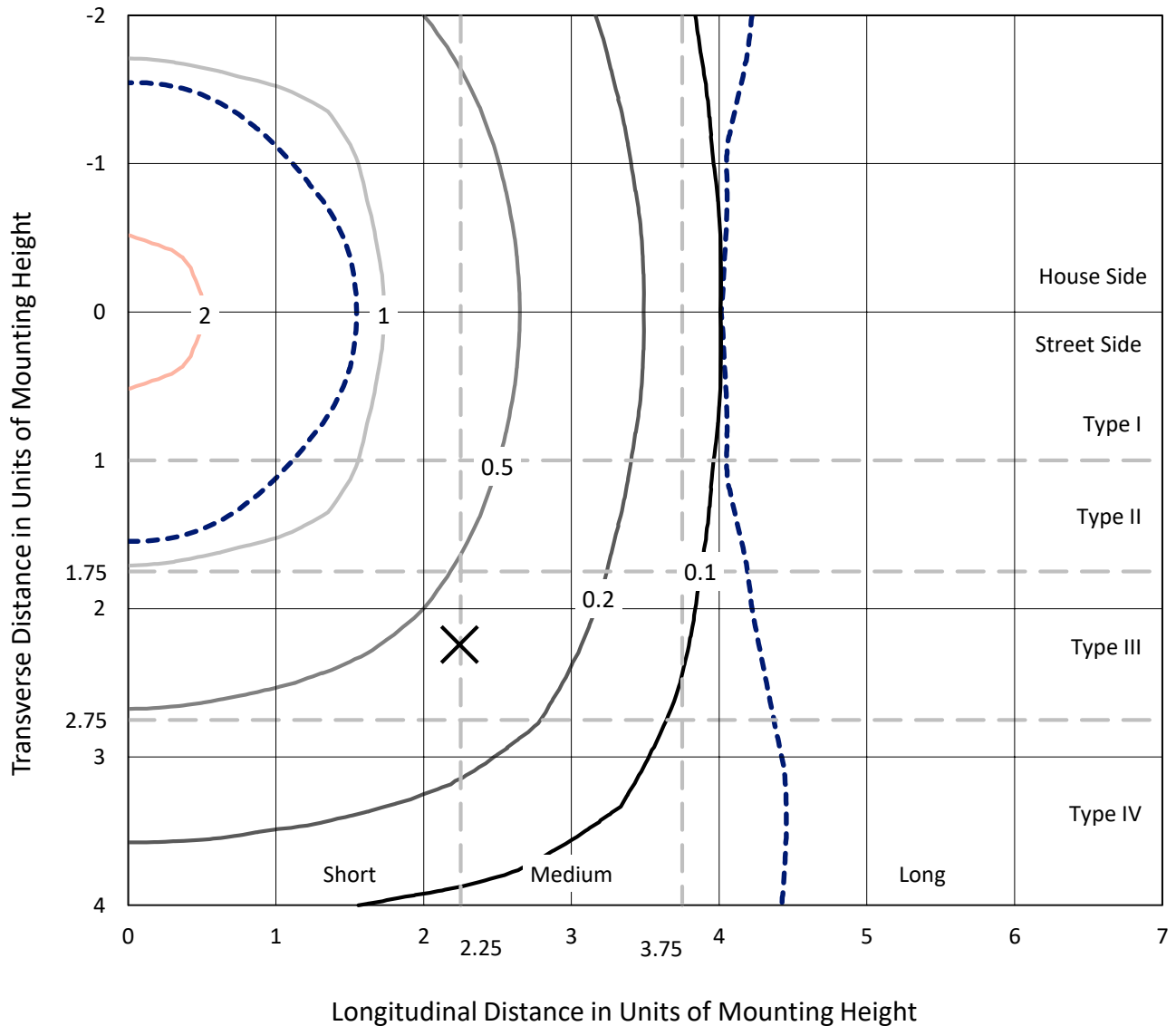


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Iso-Footcandle Lines of Horizontal Illumination

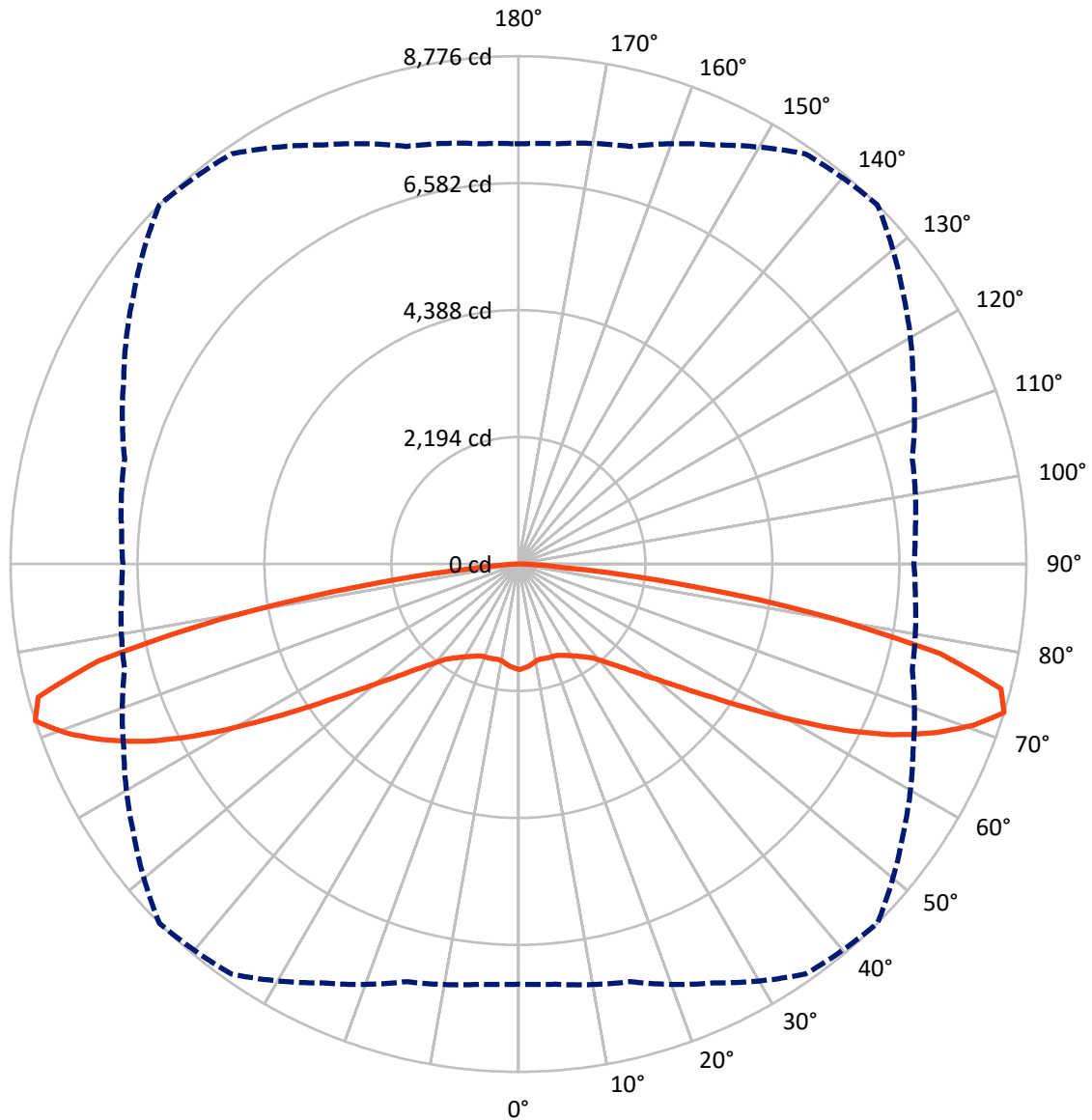
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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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	11061.2	0.0	11061.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11061.2	0.0	11061.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	22122.4	0.0	22122.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	0.8
10°-20°	484.1	2.2
20°-30°	810.1	3.7
30°-40°	1244.7	5.6
40°-50°	2060.9	9.3
50°-60°	3663.9	16.6
60°-70°	6409.9	29.0
70°-80°	6521.6	29.5
80°-90°	759.4	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°	22122.4	100.0
0°-180°	22122.4	100.0



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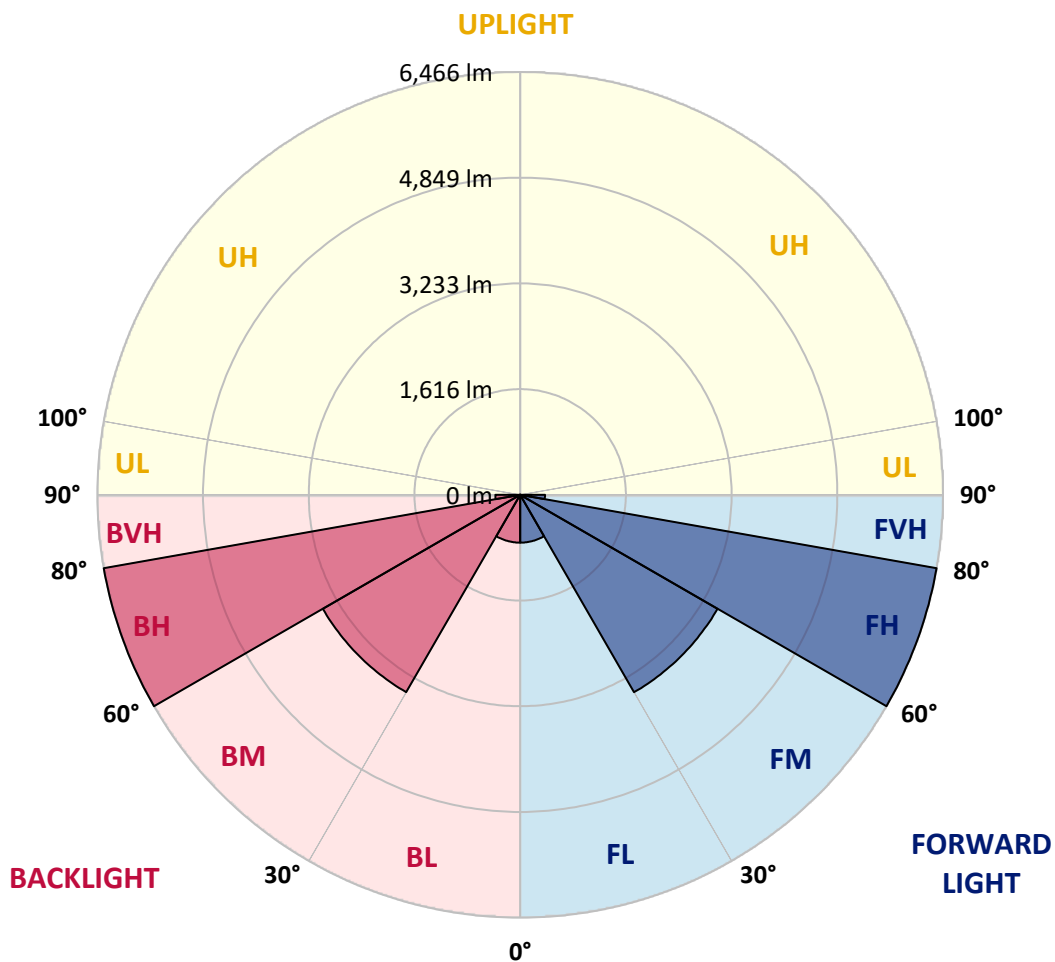
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.0	3.3			
FM	(30°-60°)	3484.8	15.8			
FH	(60°-80°)	6465.8	29.2			G3/7500
FVH	(80°-90°)	379.7	1.7			G3/500
BL	(0°-30°)	731.0	3.3	B2/1000		
BM	(30°-60°)	3484.8	15.8	B3/5000		
BH	(60°-80°)	6465.8	29.2	B5		G3/7500
BVH	(80°-90°)	379.7	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°	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4	1823.4
2.5°	1806.5	1810.7	1802.3	1802.3	1802.3	1798.1	1802.3	1798.1	1802.3	1806.5	1806.5
5°	1789.8	1789.8	1781.3	1781.3	1781.3	1777.1	1781.3	1781.3	1785.5	1789.8	1789.8
7.5°	1751.8	1751.8	1747.6	1743.4	1739.2	1739.2	1743.4	1743.4	1747.6	1751.8	1751.8
10°	1730.7	1726.5	1718.1	1705.5	1701.3	1697.1	1705.5	1714.0	1726.5	1739.2	1734.9
12.5°	1722.3	1718.1	1701.3	1688.7	1680.2	1684.4	1692.9	1701.3	1722.3	1734.9	1730.7
15°	1730.7	1722.3	1701.3	1680.2	1684.4	1692.9	1701.3	1701.3	1726.5	1739.2	1739.2
17.5°	1730.7	1726.5	1701.3	1684.4	1688.7	1701.3	1705.5	1701.3	1722.3	1743.4	1743.4
20°	1734.9	1734.9	1701.3	1688.7	1692.9	1705.5	1709.7	1705.5	1722.3	1747.6	1747.6
22.5°	1743.4	1739.2	1705.5	1697.1	1705.5	1714.0	1718.1	1714.0	1730.7	1751.8	1756.0
25°	1760.2	1751.8	1722.3	1718.1	1734.9	1747.6	1747.6	1739.2	1747.6	1768.7	1768.7
27.5°	1781.3	1777.1	1743.4	1743.4	1764.5	1789.8	1777.1	1760.2	1768.7	1789.8	1789.8
30°	1819.2	1815.0	1781.3	1781.3	1810.7	1840.3	1810.7	1789.8	1802.3	1823.4	1827.6
32.5°	1873.9	1873.9	1844.5	1836.0	1886.5	1899.2	1886.5	1844.5	1852.9	1882.3	1882.3
35°	1966.5	1958.1	1928.7	1924.5	1975.0	1970.8	1966.5	1928.7	1937.1	1970.8	1970.8
37.5°	2088.7	2084.5	2059.2	2046.6	2071.9	2055.0	2063.4	2046.6	2067.6	2092.9	2097.2
40°	2244.5	2240.3	2219.2	2202.4	2210.8	2185.5	2193.9	2202.4	2223.5	2240.3	2244.5
42.5°	2438.2	2438.2	2417.1	2387.7	2375.1	2362.4	2362.4	2379.3	2400.4	2421.3	2421.3
45°	2678.3	2678.3	2653.0	2623.5	2585.6	2564.5	2572.9	2589.8	2615.1	2640.3	2648.7
47.5°	2960.4	2960.4	2926.7	2897.2	2859.4	2834.1	2834.1	2842.5	2880.3	2901.4	2914.1
50°	3276.2	3263.6	3229.9	3200.4	3179.3	3145.7	3149.9	3145.7	3179.3	3208.8	3217.3
52.5°	3604.7	3600.5	3566.8	3558.3	3571.0	3554.1	3554.1	3512.0	3524.7	3541.6	3537.3
55°	4013.1	4000.6	3971.0	3987.9	4038.4	4063.7	4055.3	3987.9	3950.0	3958.4	3954.2
57.5°	4459.6	4446.9	4438.5	4489.0	4602.7	4708.0	4687.0	4531.2	4459.6	4463.7	4467.9
60°	4914.4	4914.4	4939.6	5066.0	5310.1	5482.8	5419.7	5158.5	5032.2	5006.9	4998.5
62.5°	5381.7	5394.4	5449.2	5659.7	6034.5	6320.8	6160.8	5790.2	5600.8	5550.2	5533.3
65°	5924.9	5937.6	6017.6	6278.7	6775.6	7116.7	6843.0	6493.5	6228.1	6122.9	6106.1
67.5°	6712.4	6720.9	6784.0	7036.7	7504.2	7777.8	7495.7	7184.1	6897.8	6775.6	6767.2
70°	7419.9	7428.4	7483.1	7815.8	8245.3	8342.2	8030.5	7634.7	7335.7	7238.8	7222.0
72.5°	7259.9	7289.3	7470.4	7988.4	8649.6	8775.9	8119.0	7525.2	7045.2	6885.1	6834.5
75°	6089.2	6135.6	6421.9	7201.0	8253.7	8611.6	7596.7	6506.1	5790.2	5482.8	5402.8
77.5°	3554.1	3726.8	4219.5	5217.6	6720.9	7449.4	6257.7	4762.8	3558.3	3053.0	2884.6
80°	972.7	1065.4	1423.3	2400.4	4215.3	5217.6	3992.1	2185.5	1179.1	884.3	821.1
82.5°	307.4	408.5	517.9	690.6	1654.9	2749.8	1482.3	644.3	505.3	416.9	370.6
85°	164.2	176.9	290.5	336.9	496.9	770.6	459.0	336.9	303.2	223.2	210.5
87.5°	84.2	88.4	164.2	164.2	219.0	181.1	197.9	181.1	172.7	109.5	96.9
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)