

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: P265670

Luminaire Tested: **ARCH-L-AF72-200-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265670
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-AF72-200-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 21874.3 lumens
Efficiency: N/A
Efficacy: 108.8 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): 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: 28.75 FT

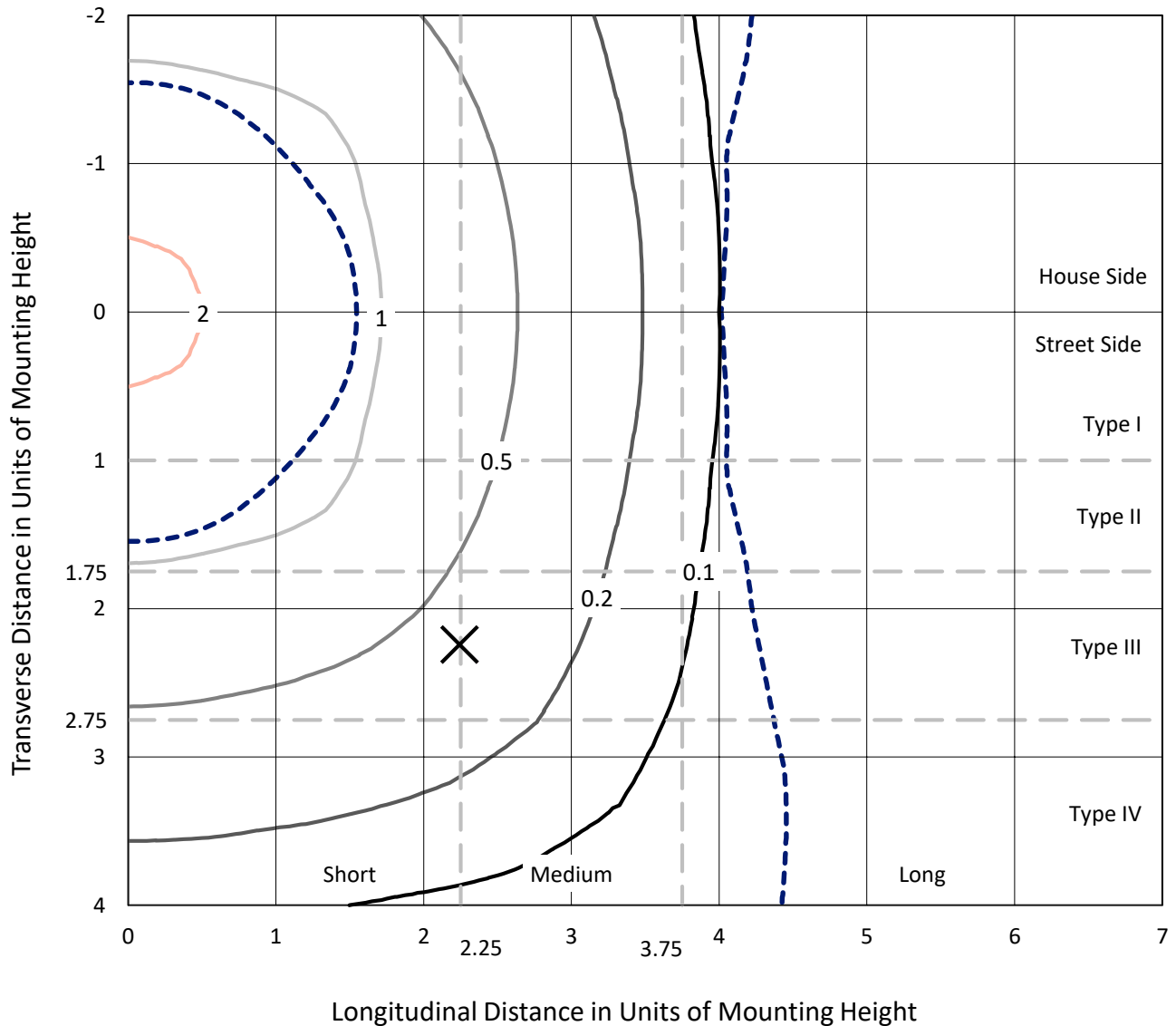


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

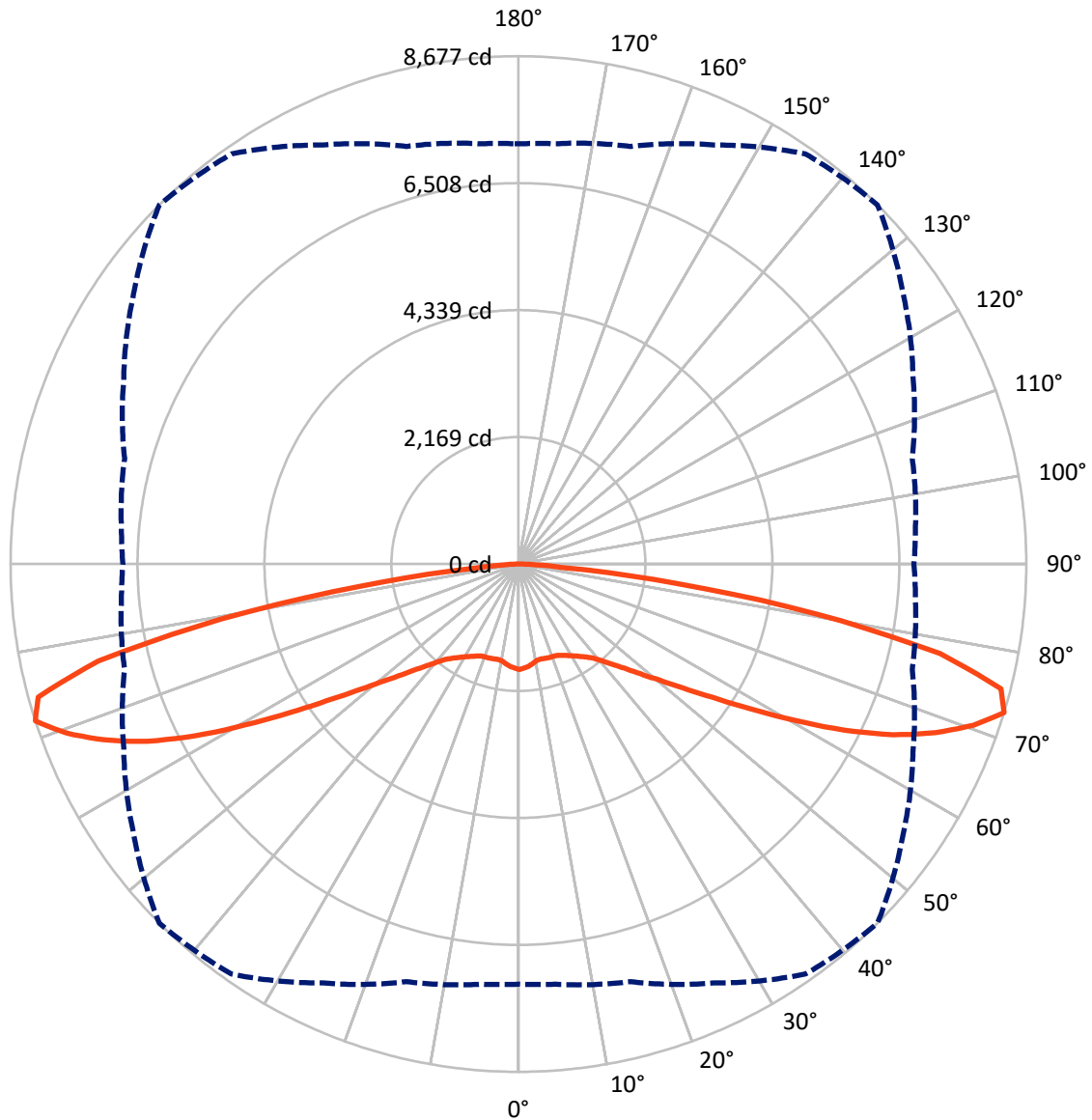


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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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	10937.1	0.0	10937.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10937.1	0.0	10937.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21874.3	0.0	21874.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	0.8
10°-20°	478.6	2.2
20°-30°	801.0	3.7
30°-40°	1230.7	5.6
40°-50°	2037.8	9.3
50°-60°	3622.8	16.6
60°-70°	6338.0	29.0
70°-80°	6448.4	29.5
80°-90°	750.9	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°	21874.3	100.0
0°-180°	21874.3	100.0



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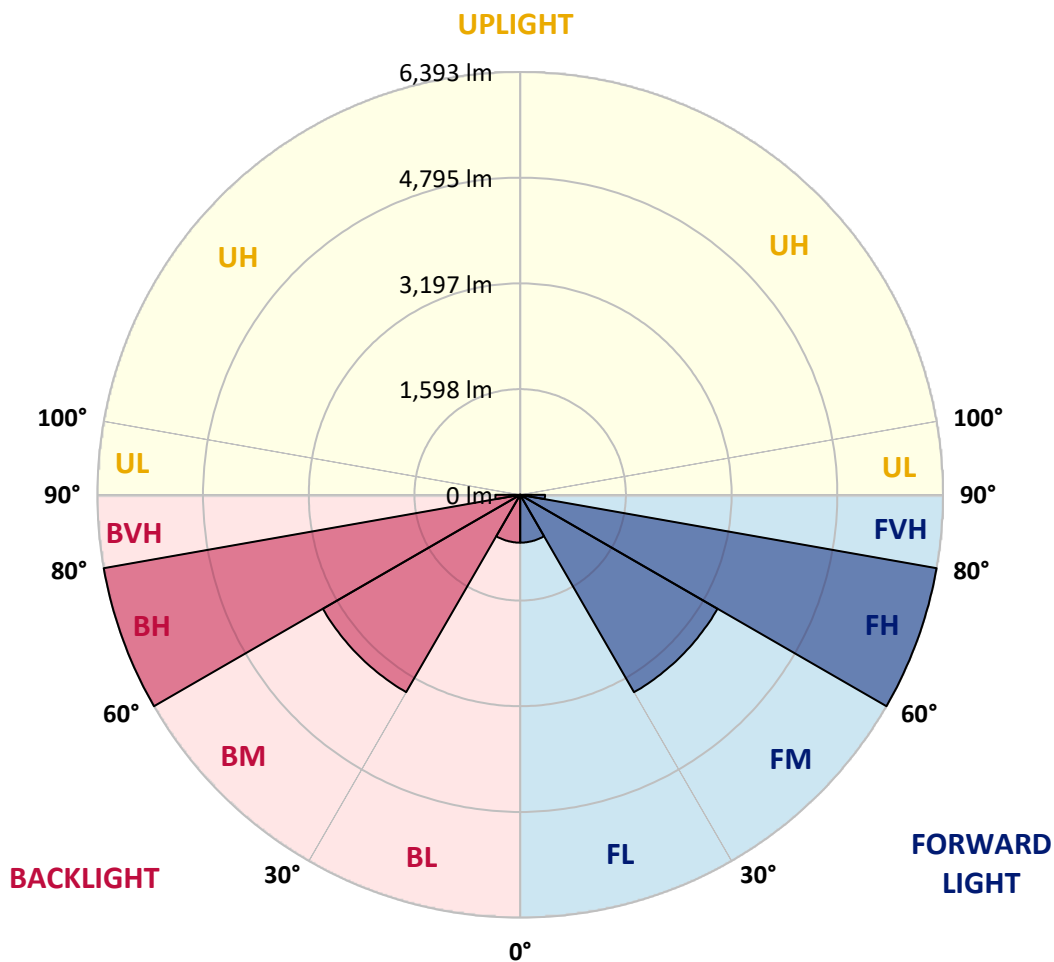
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.8	3.3			
FM	(30°-60°)	3445.7	15.8			
FH	(60°-80°)	6393.2	29.2			G3/7500
FVH	(80°-90°)	375.4	1.7			G3/500
BL	(0°-30°)	722.8	3.3	B2/1000		
BM	(30°-60°)	3445.7	15.8	B3/5000		
BH	(60°-80°)	6393.2	29.2	B5		G3/7500
BVH	(80°-90°)	375.4	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°	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0
2.5°	1786.3	1790.4	1782.1	1782.1	1782.1	1777.9	1782.1	1777.9	1782.1	1786.3	1786.3
5°	1769.7	1769.7	1761.2	1761.2	1761.2	1757.2	1761.2	1761.2	1765.4	1769.7	1769.7
7.5°	1732.1	1732.1	1728.0	1723.8	1719.6	1719.6	1723.8	1723.8	1728.0	1732.1	1732.1
10°	1711.4	1707.1	1698.9	1686.4	1682.2	1678.0	1686.4	1694.7	1707.1	1719.6	1715.6
12.5°	1702.9	1698.9	1682.2	1669.7	1661.3	1665.5	1673.9	1682.2	1702.9	1715.6	1711.4
15°	1711.4	1702.9	1682.2	1661.3	1665.5	1673.9	1682.2	1682.2	1707.1	1719.6	1719.6
17.5°	1711.4	1707.1	1682.2	1665.5	1669.7	1682.2	1686.4	1682.2	1702.9	1723.8	1723.8
20°	1715.6	1715.6	1682.2	1669.7	1673.9	1686.4	1690.5	1686.4	1702.9	1728.0	1728.0
22.5°	1723.8	1719.6	1686.4	1678.0	1686.4	1694.7	1698.9	1694.7	1711.4	1732.1	1736.3
25°	1740.5	1732.1	1702.9	1698.9	1715.6	1728.0	1728.0	1719.6	1728.0	1748.8	1748.8
27.5°	1761.2	1757.2	1723.8	1723.8	1744.7	1769.7	1757.2	1740.5	1748.8	1769.7	1769.7
30°	1798.8	1794.6	1761.2	1761.2	1790.4	1819.5	1790.4	1769.7	1782.1	1803.0	1807.1
32.5°	1852.9	1852.9	1823.7	1815.5	1865.4	1877.8	1865.4	1823.7	1832.2	1861.3	1861.3
35°	1944.6	1936.1	1907.0	1902.9	1952.8	1948.8	1944.6	1907.0	1915.4	1948.8	1948.8
37.5°	2065.3	2061.2	2036.1	2023.6	2048.7	2032.0	2040.3	2023.6	2044.5	2069.4	2073.6
40°	2219.4	2215.2	2194.4	2177.8	2186.0	2161.1	2169.3	2177.8	2198.5	2215.2	2219.4
42.5°	2411.0	2411.0	2390.0	2360.9	2348.3	2336.0	2336.0	2352.7	2373.4	2394.3	2394.3
45°	2648.3	2648.3	2623.2	2594.0	2556.5	2535.7	2544.1	2560.8	2585.7	2610.7	2619.1
47.5°	2927.1	2927.1	2893.9	2864.8	2827.2	2802.3	2802.3	2810.5	2848.0	2868.8	2881.5
50°	3239.5	3227.0	3193.7	3164.5	3143.7	3110.4	3114.6	3110.4	3143.7	3172.9	3181.2
52.5°	3564.2	3560.2	3526.7	3518.4	3531.0	3514.3	3514.3	3472.7	3485.2	3501.9	3497.6
55°	3968.2	3955.6	3926.5	3943.2	3993.1	4018.1	4009.8	3943.2	3905.7	3914.1	3909.9
57.5°	4409.5	4397.1	4388.7	4438.6	4551.2	4655.1	4634.4	4480.2	4409.5	4413.7	4417.9
60°	4859.2	4859.2	4884.3	5009.0	5250.7	5421.4	5358.8	5100.8	4975.8	4950.7	4942.5
62.5°	5321.4	5333.9	5388.0	5596.3	5966.8	6250.0	6091.8	5725.3	5538.0	5487.9	5471.2
65°	5858.6	5871.1	5950.2	6208.2	6699.6	7037.0	6766.3	6420.6	6158.3	6054.2	6037.6
67.5°	6637.1	6645.5	6708.0	6957.8	7420.0	7690.6	7411.6	7103.5	6820.4	6699.6	6691.4
70°	7336.6	7345.0	7399.2	7728.1	8152.8	8248.5	7940.5	7549.0	7253.5	7157.6	7140.9
72.5°	7178.4	7207.6	7386.7	7898.8	8552.6	8677.4	8028.0	7440.8	6966.1	6808.0	6757.9
75°	6020.9	6066.8	6349.8	7120.1	8161.1	8515.0	7511.5	6433.1	5725.3	5421.4	5342.2
77.5°	3514.3	3684.9	4172.2	5159.1	6645.5	7365.8	6187.4	4709.4	3518.4	3018.8	2852.3
80°	961.8	1053.4	1407.4	2373.4	4168.0	5159.1	3947.3	2161.1	1165.9	874.4	812.0
82.5°	303.9	403.9	512.2	682.9	1636.4	2719.0	1465.7	637.1	499.6	412.2	366.4
85°	162.5	174.9	287.3	333.1	491.4	762.0	453.9	333.1	299.9	220.7	208.1
87.5°	83.3	87.5	162.5	162.5	216.5	179.0	195.7	179.0	170.7	108.2	95.8
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)