

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: P265688

Luminaire Tested: **ARCH-L-AF72-220-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265688  
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-AF72-220-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23333.7 lumens  
Efficiency: N/A  
Efficacy: 105.1 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): 222  
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

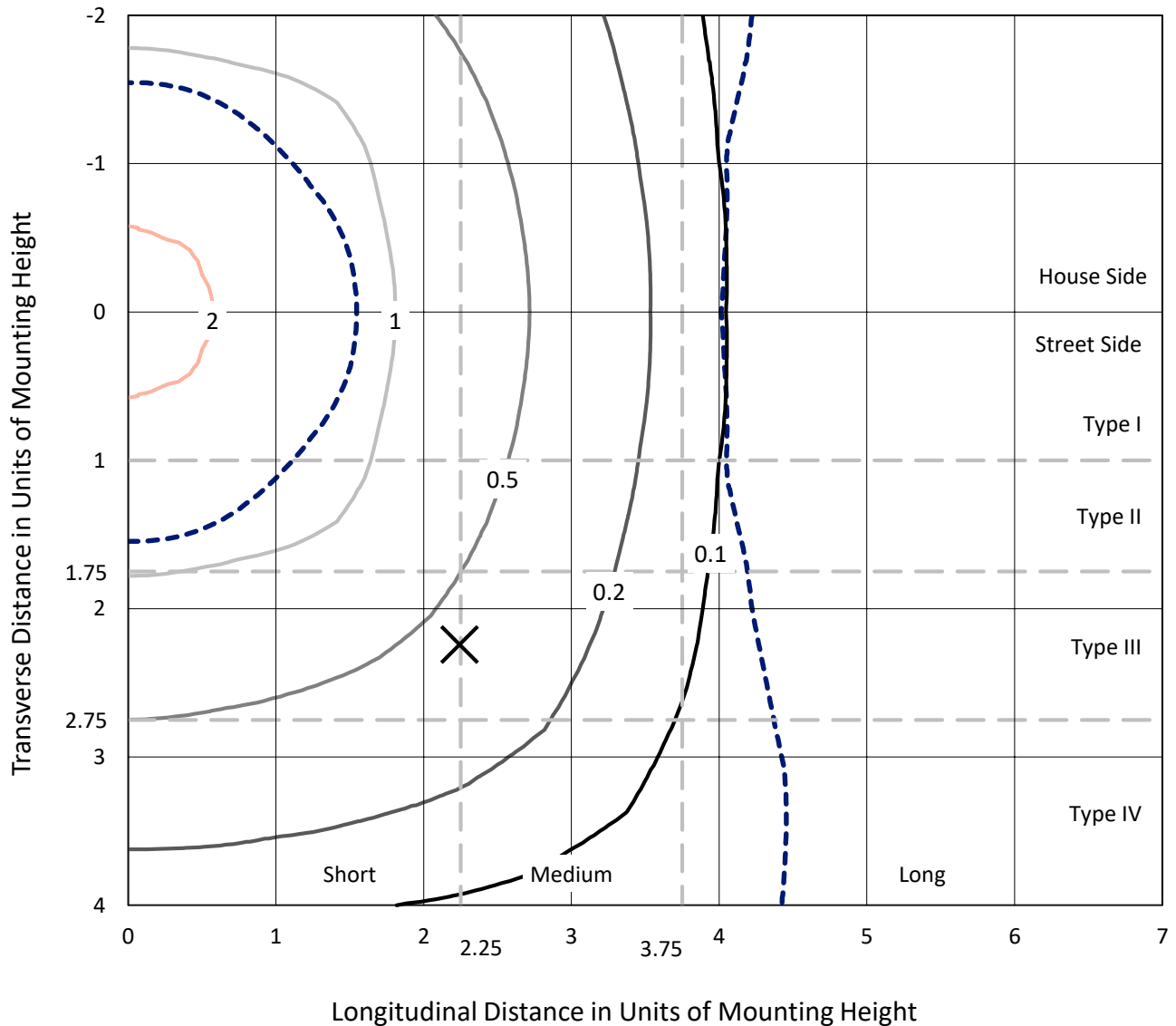


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

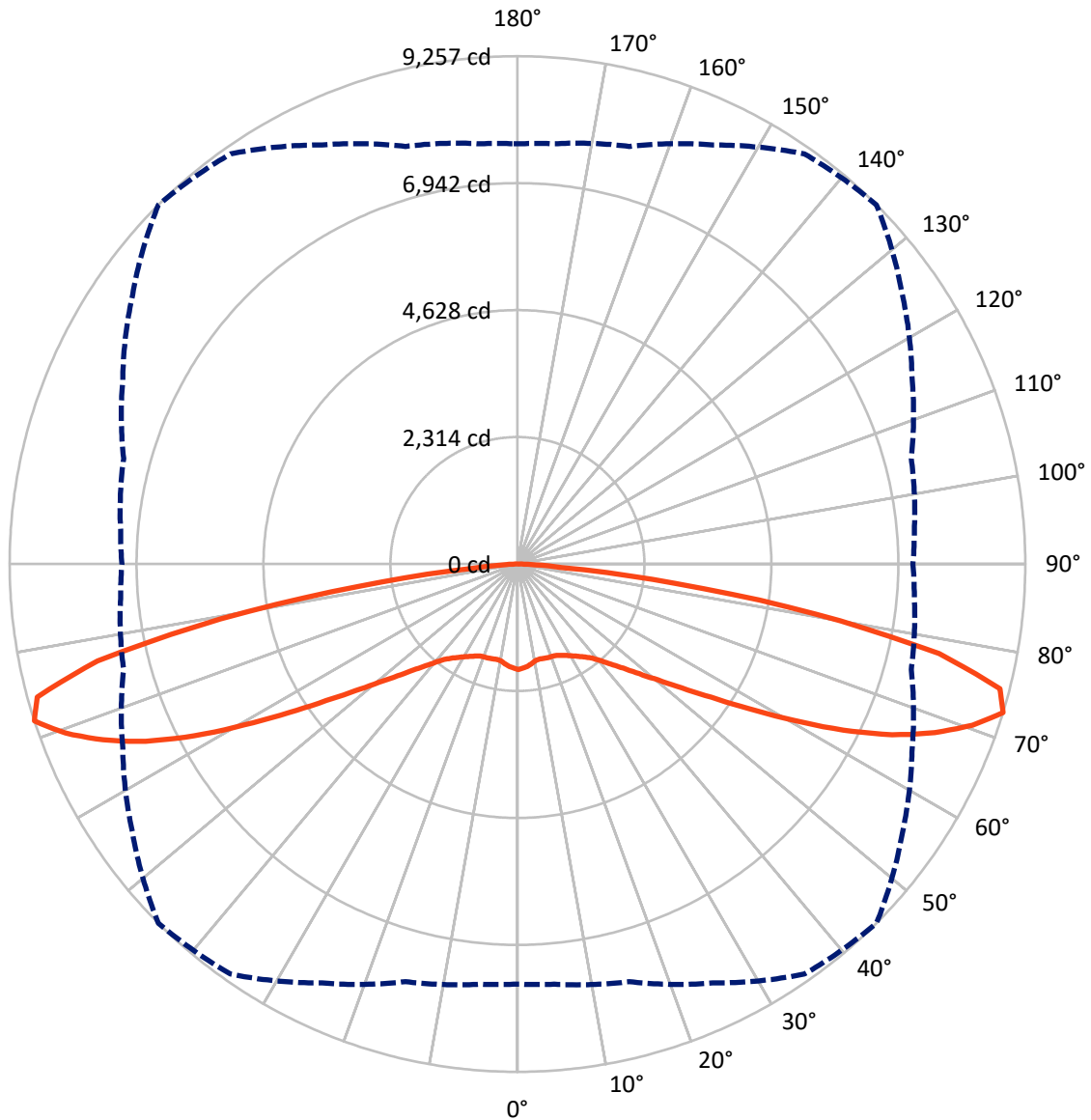


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	11666.9	0.0	11666.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11666.9	0.0	11666.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23333.7	0.0	23333.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	0.8
10°-20°	510.6	2.2
20°-30°	854.4	3.7
30°-40°	1312.8	5.6
40°-50°	2173.8	9.3
50°-60°	3864.5	16.6
60°-70°	6760.9	29.0
70°-80°	6878.7	29.5
80°-90°	801.0	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°	23333.7	100.0
0°-180°	23333.7	100.0

**Coefficient of Utilization**



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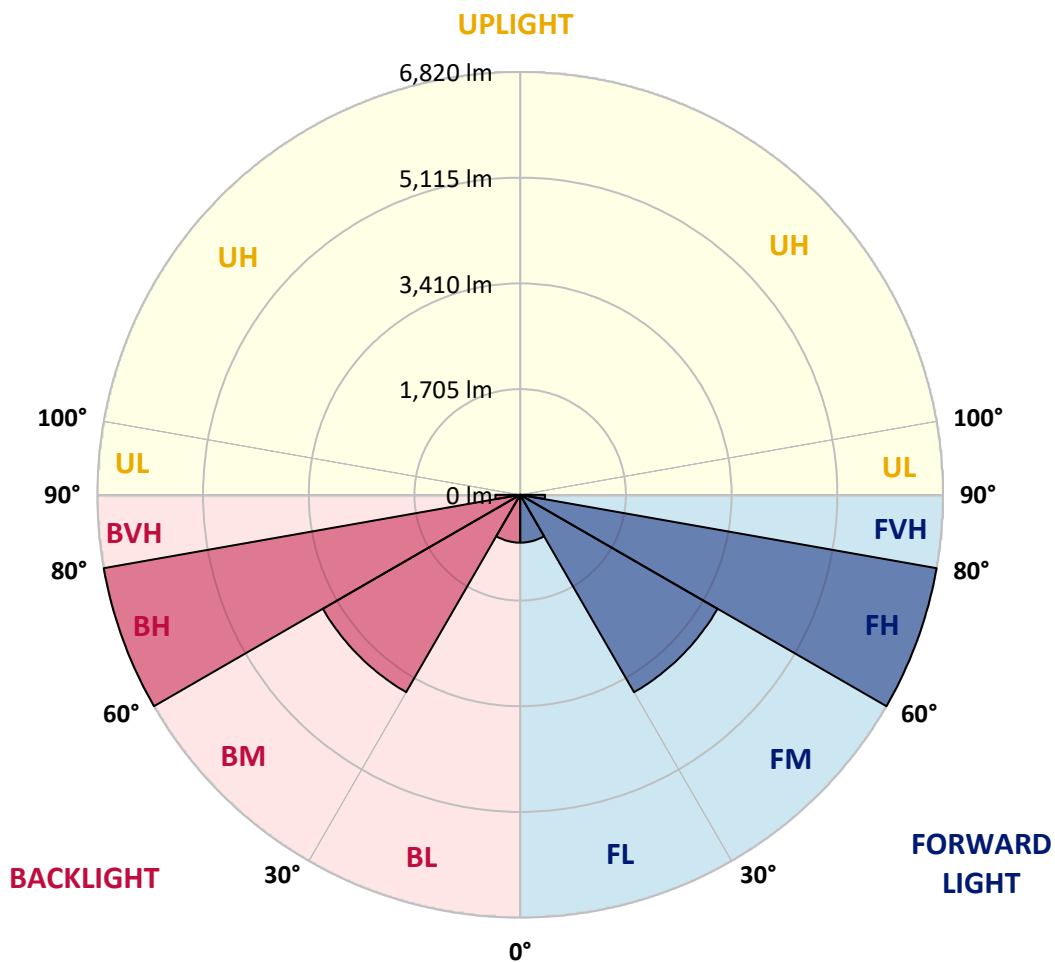
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.0	3.3			
FM	(30°-60°)	3675.6	15.8			
FH	(60°-80°)	6819.8	29.2			G3/7500
FVH	(80°-90°)	400.5	1.7			G3/500
BL	(0°-30°)	771.0	3.3	B2/1000		
BM	(30°-60°)	3675.6	15.8	B3/5000		
BH	(60°-80°)	6819.8	29.2	B5		G3/7500
BVH	(80°-90°)	400.5	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°	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2	1923.2
2.5°	1905.5	1909.9	1901.1	1901.1	1901.1	1896.6	1901.1	1896.6	1901.1	1905.5	1905.5
5°	1887.7	1887.7	1878.8	1878.8	1878.8	1874.4	1878.8	1878.8	1883.2	1887.7	1887.7
7.5°	1847.8	1847.8	1843.3	1838.8	1834.3	1834.3	1838.8	1838.8	1843.3	1847.8	1847.8
10°	1825.5	1821.0	1812.2	1798.9	1794.5	1790.1	1798.9	1807.7	1821.0	1834.3	1829.9
12.5°	1816.6	1812.2	1794.5	1781.1	1772.3	1776.7	1785.6	1794.5	1816.6	1829.9	1825.5
15°	1825.5	1816.6	1794.5	1772.3	1776.7	1785.6	1794.5	1794.5	1821.0	1834.3	1834.3
17.5°	1825.5	1821.0	1794.5	1776.7	1781.1	1794.5	1798.9	1794.5	1816.6	1838.8	1838.8
20°	1829.9	1829.9	1794.5	1781.1	1785.6	1798.9	1803.3	1798.9	1816.6	1843.3	1843.3
22.5°	1838.8	1834.3	1798.9	1790.1	1798.9	1807.7	1812.2	1807.7	1825.5	1847.8	1852.1
25°	1856.5	1847.8	1816.6	1812.2	1829.9	1843.3	1843.3	1834.3	1843.3	1865.5	1865.5
27.5°	1878.8	1874.4	1838.8	1838.8	1861.1	1887.7	1874.4	1856.5	1865.5	1887.7	1887.7
30°	1918.8	1914.4	1878.8	1878.8	1909.9	1941.0	1909.9	1887.7	1901.1	1923.2	1927.8
32.5°	1976.5	1976.5	1945.5	1936.6	1989.8	2003.2	1989.8	1945.5	1954.4	1985.4	1985.4
35°	2074.2	2065.4	2034.3	2029.8	2083.1	2078.7	2074.2	2034.3	2043.1	2078.7	2078.7
37.5°	2203.1	2198.6	2172.0	2158.6	2185.2	2167.5	2176.5	2158.6	2180.8	2207.6	2211.9
40°	2367.5	2363.0	2340.8	2322.9	2331.9	2305.2	2314.2	2322.9	2345.1	2363.0	2367.5
42.5°	2571.7	2571.7	2549.5	2518.4	2505.2	2491.8	2491.8	2509.5	2531.8	2553.9	2553.9
45°	2824.9	2824.9	2798.2	2767.1	2727.2	2704.9	2713.9	2731.7	2758.2	2784.9	2793.8
47.5°	3122.5	3122.5	3086.9	3055.9	3015.9	2989.2	2989.2	2998.2	3038.1	3060.3	3073.6
50°	3455.6	3442.2	3406.7	3375.7	3353.5	3317.9	3322.4	3317.9	3353.5	3384.5	3393.4
52.5°	3802.0	3797.7	3762.1	3753.2	3766.6	3748.7	3748.7	3704.3	3717.6	3735.4	3731.0
55°	4233.0	4219.6	4188.4	4206.3	4259.6	4286.3	4277.3	4206.3	4166.2	4175.1	4170.7
57.5°	4703.7	4690.4	4681.4	4734.8	4854.7	4965.8	4943.6	4779.3	4703.7	4708.1	4712.6
60°	5183.4	5183.4	5210.1	5343.3	5600.9	5783.1	5716.5	5441.0	5307.7	5281.1	5272.2
62.5°	5676.5	5689.8	5747.5	5969.5	6364.9	6667.0	6498.2	6107.2	5907.4	5854.2	5836.4
65°	6249.4	6262.8	6347.2	6622.6	7146.6	7506.4	7217.7	6849.0	6569.2	6458.2	6440.4
67.5°	7080.0	7089.0	7155.4	7422.1	7915.1	8203.7	7906.2	7577.6	7275.5	7146.6	7137.8
70°	7826.3	7835.0	7892.9	8243.7	8696.9	8799.0	8470.3	8052.8	7737.5	7635.2	7617.4
72.5°	7657.4	7688.6	7879.6	8425.8	9123.1	9256.5	8563.5	7937.2	7430.9	7262.1	7208.8
75°	6422.6	6471.5	6773.5	7595.3	8705.7	9083.2	8012.8	6862.4	6107.2	5783.1	5698.7
77.5°	3748.7	3930.9	4450.6	5503.2	7089.0	7857.4	6600.3	5023.5	3753.2	3220.2	3042.5
80°	1026.0	1123.7	1501.2	2531.8	4446.2	5503.2	4210.6	2305.2	1243.7	932.7	866.1
82.5°	324.3	430.8	546.3	728.4	1745.5	2900.4	1563.5	679.6	533.1	439.7	390.9
85°	173.3	186.6	306.5	355.3	524.2	812.8	484.1	355.3	319.7	235.4	222.2
87.5°	88.8	93.2	173.3	173.3	231.0	191.0	208.8	191.0	182.0	115.5	102.1
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)