

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: P265715

Luminaire Tested: **ARCH-L-AF72-250-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265715  
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-AF72-250-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25295.7 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

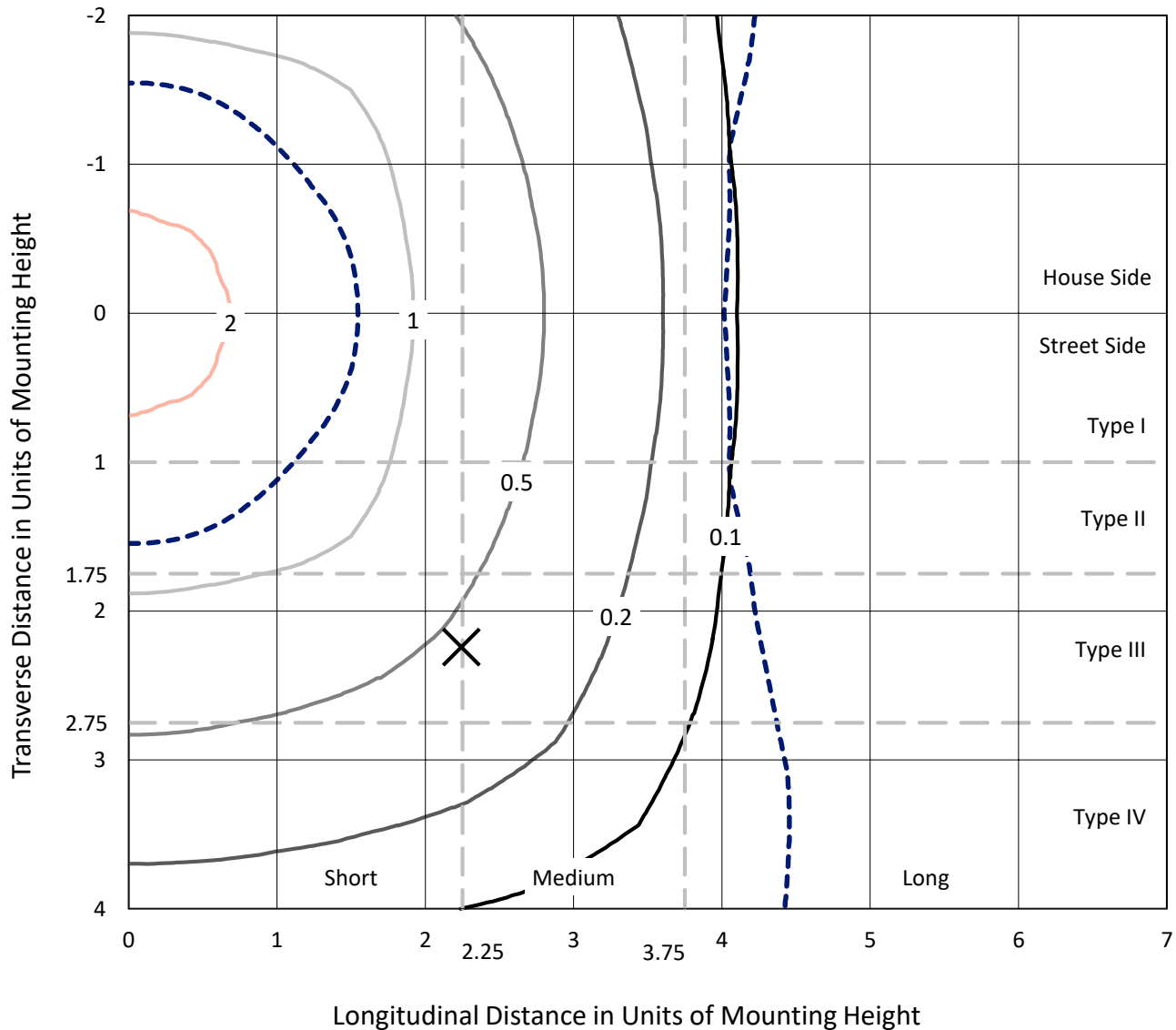
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

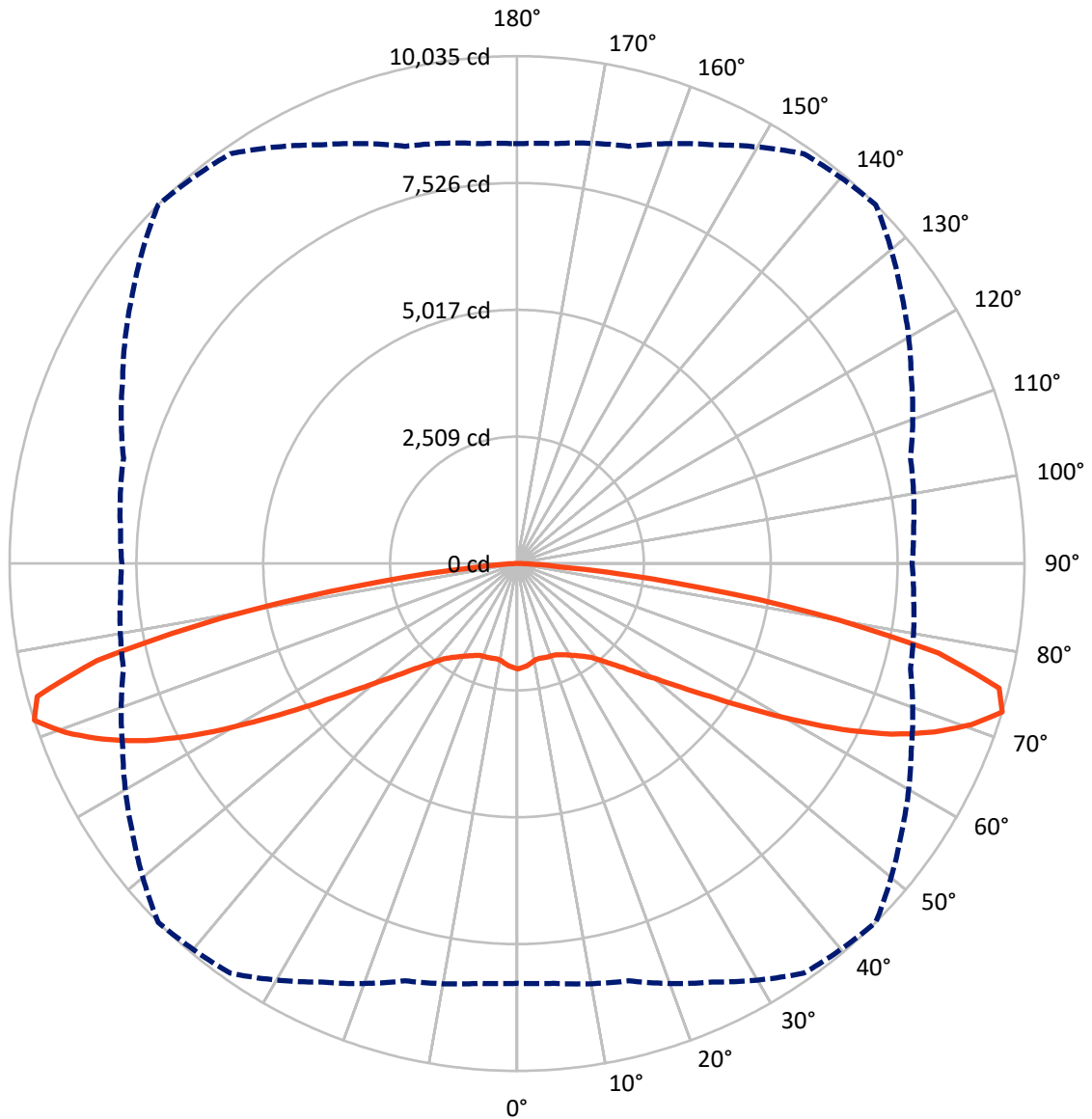


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Non-Cutoff

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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	12647.9	0.0	12647.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12647.9	0.0	12647.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25295.7	0.0	25295.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	0.8
10°-20°	553.5	2.2
20°-30°	926.3	3.7
30°-40°	1423.2	5.6
40°-50°	2356.5	9.3
50°-60°	4189.5	16.6
60°-70°	7329.4	29.0
70°-80°	7457.1	29.5
80°-90°	868.3	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°	25295.7	100.0
0°-180°	25295.7	100.0



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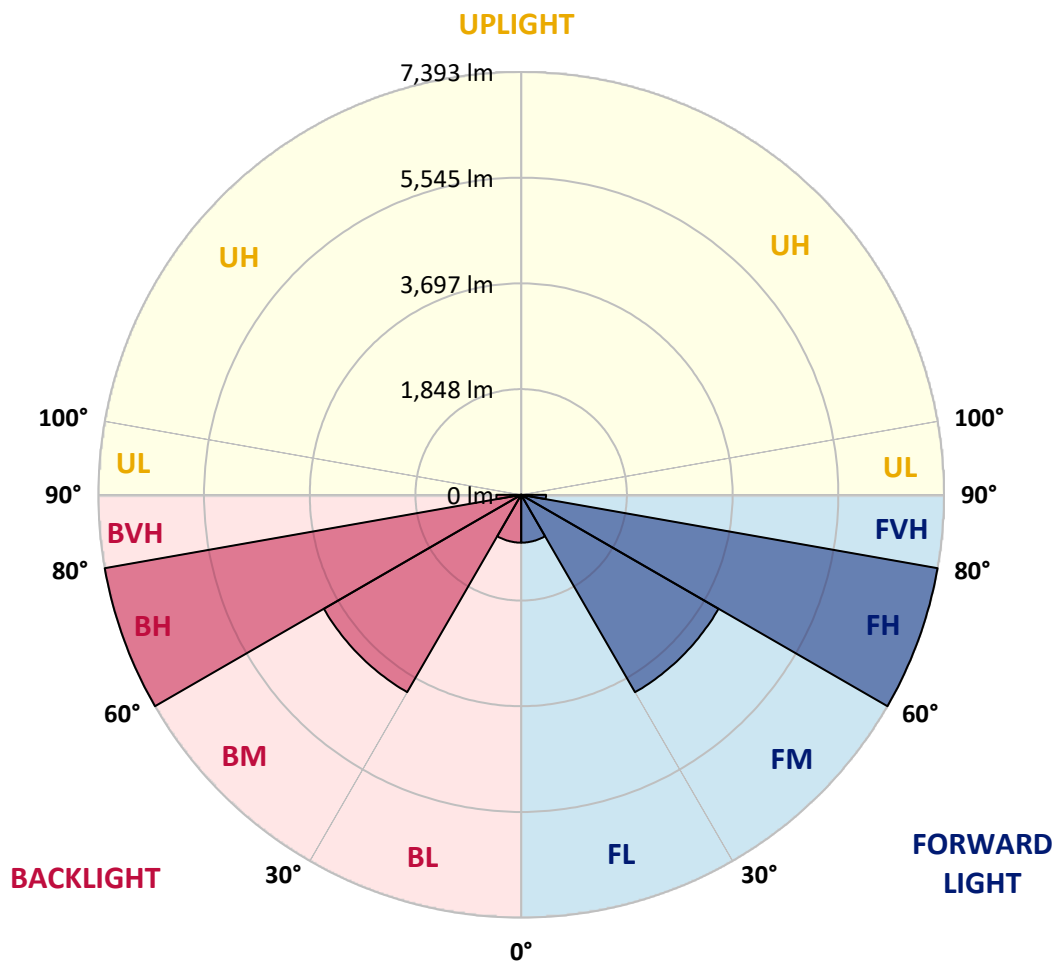
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.8	3.3			
FM	(30°-60°)	3984.6	15.8			
FH	(60°-80°)	7393.2	29.2			G3/7500
FVH	(80°-90°)	434.2	1.7			G3/500
BL	(0°-30°)	835.8	3.3	B2/1000		
BM	(30°-60°)	3984.6	15.8	B3/5000		
BH	(60°-80°)	7393.2	29.2	B5		G3/7500
BVH	(80°-90°)	434.2	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°	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0	2085.0
2.5°	2065.7	2070.6	2060.9	2060.9	2060.9	2056.1	2060.9	2056.1	2060.9	2065.7	2065.7
5°	2046.3	2046.3	2036.7	2036.7	2036.7	2032.0	2036.7	2036.7	2041.6	2046.3	2046.3
7.5°	2003.1	2003.1	1998.3	1993.5	1988.7	1988.7	1993.5	1993.5	1998.3	2003.1	2003.1
10°	1979.1	1974.3	1964.6	1950.1	1945.3	1940.5	1950.1	1959.7	1974.3	1988.7	1983.8
12.5°	1969.4	1964.6	1945.3	1930.8	1921.3	1926.1	1935.7	1945.3	1969.4	1983.8	1979.1
15°	1979.1	1969.4	1945.3	1921.3	1926.1	1935.7	1945.3	1945.3	1974.3	1988.7	1988.7
17.5°	1979.1	1974.3	1945.3	1926.1	1930.8	1945.3	1950.1	1945.3	1969.4	1993.5	1993.5
20°	1983.8	1983.8	1945.3	1930.8	1935.7	1950.1	1954.9	1950.1	1969.4	1998.3	1998.3
22.5°	1993.5	1988.7	1950.1	1940.5	1950.1	1959.7	1964.6	1959.7	1979.1	2003.1	2007.9
25°	2012.7	2003.1	1969.4	1964.6	1983.8	1998.3	1998.3	1988.7	1998.3	2022.4	2022.4
27.5°	2036.7	2032.0	1993.5	1993.5	2017.6	2046.3	2032.0	2012.7	2022.4	2046.3	2046.3
30°	2080.1	2075.4	2036.7	2036.7	2070.6	2104.2	2070.6	2046.3	2060.9	2085.0	2089.7
32.5°	2142.7	2142.7	2109.0	2099.3	2157.2	2171.7	2157.2	2109.0	2118.7	2152.3	2152.3
35°	2248.6	2239.0	2205.2	2200.5	2258.2	2253.5	2248.6	2205.2	2215.0	2253.5	2253.5
37.5°	2388.4	2383.6	2354.5	2340.2	2369.0	2349.7	2359.4	2340.2	2364.2	2393.2	2397.9
40°	2566.5	2561.6	2537.6	2518.3	2527.9	2499.1	2508.6	2518.3	2542.5	2561.6	2566.5
42.5°	2788.0	2788.0	2763.8	2730.2	2715.8	2701.4	2701.4	2720.5	2744.6	2768.7	2768.7
45°	3062.4	3062.4	3033.5	2999.8	2956.5	2932.3	2942.0	2961.4	2990.2	3019.2	3028.7
47.5°	3385.1	3385.1	3346.5	3312.8	3269.6	3240.5	3240.5	3250.2	3293.5	3317.6	3332.1
50°	3746.2	3731.6	3693.2	3659.5	3635.4	3597.0	3601.8	3597.0	3635.4	3669.1	3678.7
52.5°	4121.8	4116.9	4078.5	4068.9	4083.2	4064.0	4064.0	4015.9	4030.2	4049.5	4044.7
55°	4588.8	4574.3	4540.7	4559.9	4617.6	4646.7	4637.1	4559.9	4516.6	4526.2	4521.3
57.5°	5099.1	5084.8	5075.2	5132.9	5262.9	5383.4	5359.3	5181.1	5099.1	5104.1	5108.9
60°	5619.3	5619.3	5648.2	5792.6	6072.0	6269.4	6197.0	5898.5	5754.2	5725.2	5715.6
62.5°	6153.7	6168.2	6230.9	6471.6	6900.2	7227.6	7044.6	6620.8	6404.1	6346.3	6327.1
65°	6774.8	6789.3	6880.8	7179.3	7747.5	8137.6	7824.5	7424.9	7121.7	7001.2	6981.9
67.5°	7675.3	7685.0	7757.3	8046.1	8580.6	8893.6	8571.0	8214.6	7887.2	7747.5	7737.9
70°	8484.3	8494.0	8556.4	8936.9	9428.0	9538.8	9182.5	8729.9	8388.0	8277.3	8257.9
72.5°	8301.2	8335.1	8542.1	9134.3	9890.2	10034.7	9283.7	8604.7	8055.7	7872.7	7815.0
75°	6962.8	7015.7	7343.0	8233.9	9437.7	9847.0	8686.5	7439.5	6620.8	6269.4	6177.9
77.5°	4064.0	4261.4	4824.7	5966.0	7685.0	8518.0	7155.3	5446.0	4068.9	3491.0	3298.3
80°	1112.3	1218.2	1627.5	2744.6	4819.9	5966.0	4564.7	2499.1	1348.3	1011.2	939.0
82.5°	351.4	467.1	592.3	789.7	1892.4	3144.2	1694.9	736.7	577.8	476.7	423.7
85°	187.7	202.3	332.3	385.3	568.2	881.1	524.9	385.3	346.7	255.2	240.7
87.5°	96.3	101.1	187.7	187.7	250.4	207.1	226.4	207.1	197.4	125.3	110.8
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)