

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: P265706

Luminaire Tested: **ARCH-L-AF72-240-D-U-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265706  
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-AF72-240-D-U-5WQ-7027  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24728.5 lumens  
Efficiency: N/A  
Efficacy: 102.2 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): 242  
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

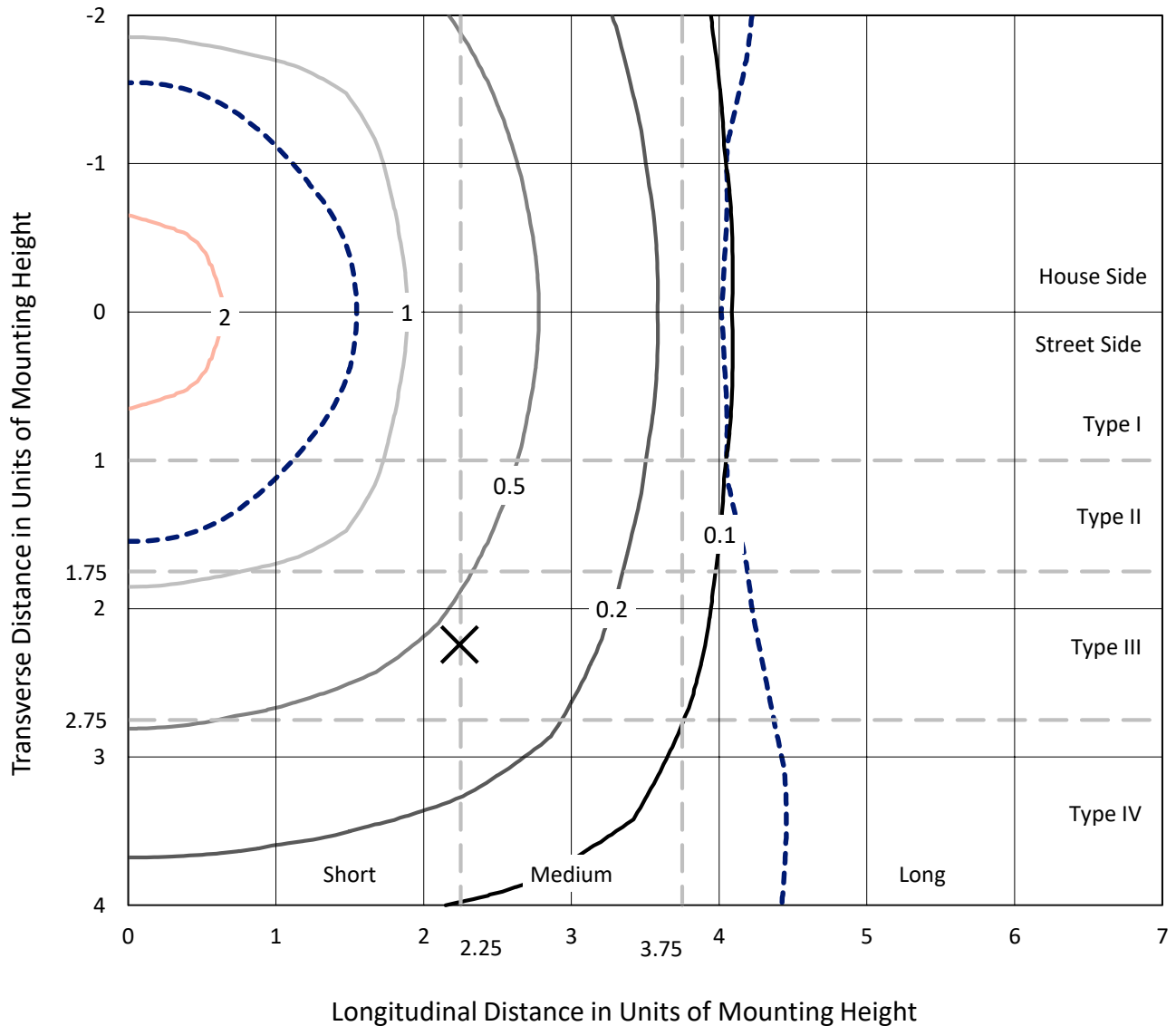


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

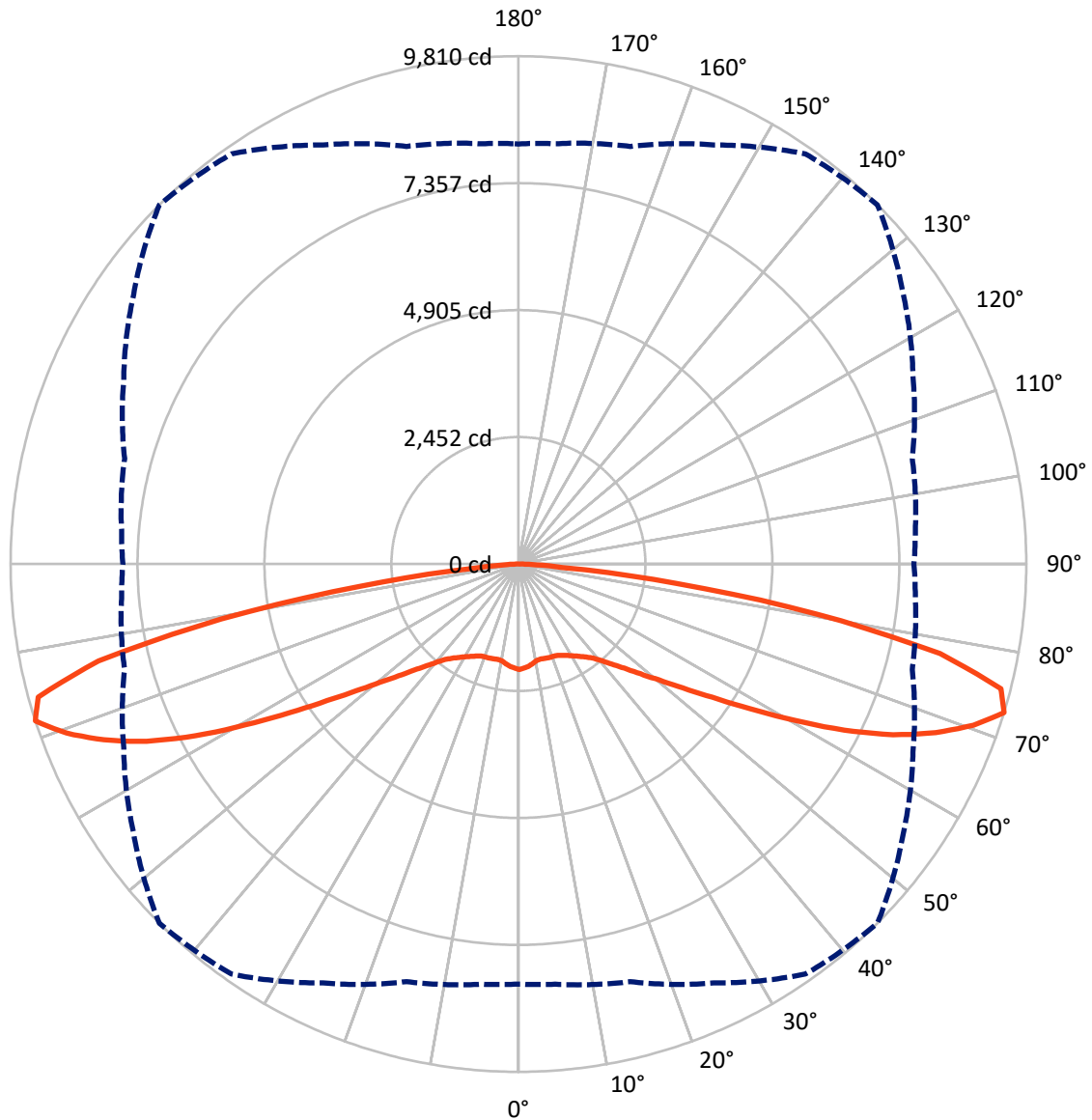


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Non-Cutoff

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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	12364.2	0.0	12364.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12364.2	0.0	12364.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24728.5	0.0	24728.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	0.8
10°-20°	541.1	2.2
20°-30°	905.5	3.7
30°-40°	1391.3	5.6
40°-50°	2303.7	9.3
50°-60°	4095.5	16.6
60°-70°	7165.0	29.0
70°-80°	7289.8	29.5
80°-90°	848.9	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°	24728.5	100.0
0°-180°	24728.5	100.0



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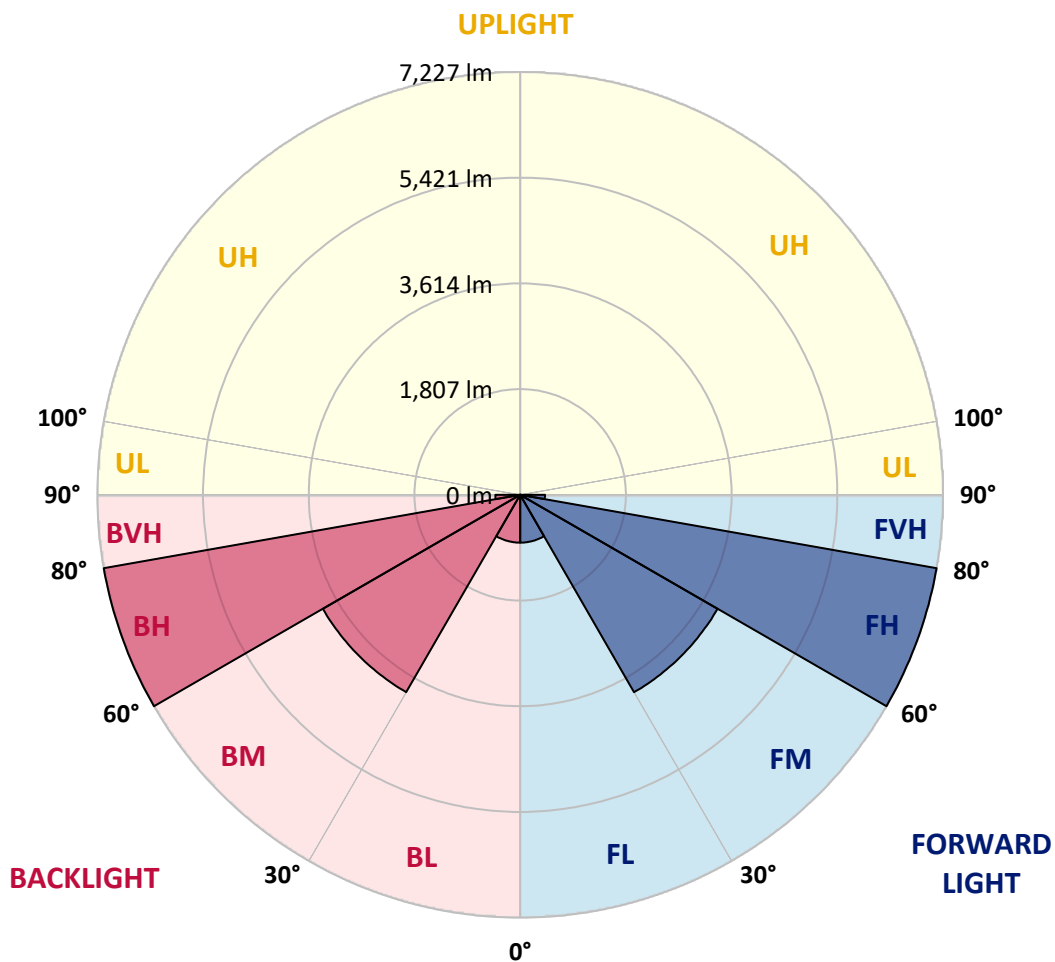
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.1	3.3			
FM	(30°-60°)	3895.3	15.8			
FH	(60°-80°)	7227.4	29.2			G3/7500
FVH	(80°-90°)	424.4	1.7			G3/500
BL	(0°-30°)	817.1	3.3	B2/1000		
BM	(30°-60°)	3895.3	15.8	B3/5000		
BH	(60°-80°)	7227.4	29.2	B5		G3/7500
BVH	(80°-90°)	424.4	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°	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3	2038.3
2.5°	2019.4	2024.2	2014.7	2014.7	2014.7	2010.0	2014.7	2010.0	2014.7	2019.4	2019.4
5°	2000.5	2000.5	1991.2	1991.2	1991.2	1986.4	1991.2	1991.2	1995.9	2000.5	2000.5
7.5°	1958.1	1958.1	1953.5	1948.8	1944.0	1944.0	1948.8	1948.8	1953.5	1958.1	1958.1
10°	1934.6	1929.9	1920.5	1906.5	1901.7	1897.0	1906.5	1915.8	1929.9	1944.0	1939.4
12.5°	1925.2	1920.5	1901.7	1887.6	1878.1	1882.8	1892.3	1901.7	1925.2	1939.4	1934.6
15°	1934.6	1925.2	1901.7	1878.1	1882.8	1892.3	1901.7	1901.7	1929.9	1944.0	1944.0
17.5°	1934.6	1929.9	1901.7	1882.8	1887.6	1901.7	1906.5	1901.7	1925.2	1948.8	1948.8
20°	1939.4	1939.4	1901.7	1887.6	1892.3	1906.5	1911.1	1906.5	1925.2	1953.5	1953.5
22.5°	1948.8	1944.0	1906.5	1897.0	1906.5	1915.8	1920.5	1915.8	1934.6	1958.1	1962.8
25°	1967.6	1958.1	1925.2	1920.5	1939.4	1953.5	1953.5	1944.0	1953.5	1977.0	1977.0
27.5°	1991.2	1986.4	1948.8	1948.8	1972.3	2000.5	1986.4	1967.6	1977.0	2000.5	2000.5
30°	2033.6	2028.8	1991.2	1991.2	2024.2	2056.9	2024.2	2000.5	2014.7	2038.3	2042.8
32.5°	2094.7	2094.7	2061.7	2052.3	2108.9	2123.0	2108.9	2061.7	2071.1	2104.1	2104.1
35°	2198.2	2188.8	2155.9	2151.3	2207.7	2203.0	2198.2	2155.9	2165.3	2203.0	2203.0
37.5°	2334.8	2330.1	2301.7	2287.7	2315.9	2297.1	2306.5	2287.7	2311.2	2339.5	2344.1
40°	2509.0	2504.3	2480.7	2461.8	2471.2	2443.0	2452.5	2461.8	2485.4	2504.3	2509.0
42.5°	2725.5	2725.5	2701.9	2669.0	2654.9	2640.7	2640.7	2659.5	2683.1	2706.7	2706.7
45°	2993.7	2993.7	2965.6	2932.5	2890.1	2866.6	2876.1	2894.9	2923.2	2951.4	2960.9
47.5°	3309.1	3309.1	3271.4	3238.5	3196.2	3168.0	3168.0	3177.3	3219.6	3243.2	3257.3
50°	3662.2	3648.0	3610.4	3577.4	3554.0	3516.2	3520.9	3516.2	3554.0	3586.8	3596.3
52.5°	4029.3	4024.6	3986.9	3977.5	3991.7	3972.8	3972.8	3925.8	3939.8	3958.7	3954.0
55°	4486.0	4471.9	4438.9	4457.7	4514.2	4542.4	4532.9	4457.7	4415.3	4424.7	4420.0
57.5°	4984.9	4970.7	4961.2	5017.8	5145.0	5262.6	5239.1	5065.0	4984.9	4989.5	4994.2
60°	5493.2	5493.2	5521.5	5662.6	5935.7	6128.6	6058.1	5766.3	5625.0	5596.8	5587.4
62.5°	6015.7	6029.9	6091.0	6326.5	6745.4	7065.3	6886.5	6472.4	6260.5	6204.1	6185.2
65°	6622.9	6637.0	6726.5	7018.4	7573.8	7955.1	7649.1	7258.5	6961.9	6844.1	6825.4
67.5°	7503.3	7512.6	7583.2	7865.6	8388.2	8694.1	8378.8	8030.4	7710.3	7573.8	7564.4
70°	8294.1	8303.5	8364.6	8736.5	9216.6	9324.9	8976.6	8534.1	8199.9	8091.7	8072.8
72.5°	8115.1	8148.0	8350.5	8929.4	9668.5	9809.8	9075.3	8411.6	7875.1	7696.1	7639.7
75°	6806.5	6858.3	7178.4	8049.3	9226.0	9626.1	8491.7	7272.6	6472.4	6128.6	6039.2
77.5°	3972.8	4165.8	4716.6	5832.2	7512.6	8327.0	6994.8	5323.7	3977.5	3412.8	3224.3
80°	1087.4	1191.0	1591.0	2683.1	4711.9	5832.2	4462.4	2443.0	1318.1	988.6	917.9
82.5°	343.6	456.6	579.0	772.0	1849.9	3073.8	1657.0	720.3	564.9	466.0	414.2
85°	183.6	197.6	324.7	376.6	555.4	861.5	513.1	376.6	338.9	249.5	235.4
87.5°	94.1	98.9	183.6	183.6	244.8	202.4	221.3	202.4	193.0	122.3	108.2
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)