

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: P236733

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236733  
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  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 25754.8 lumens  
Efficiency: N/A  
Efficacy: 128.1 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 - G4

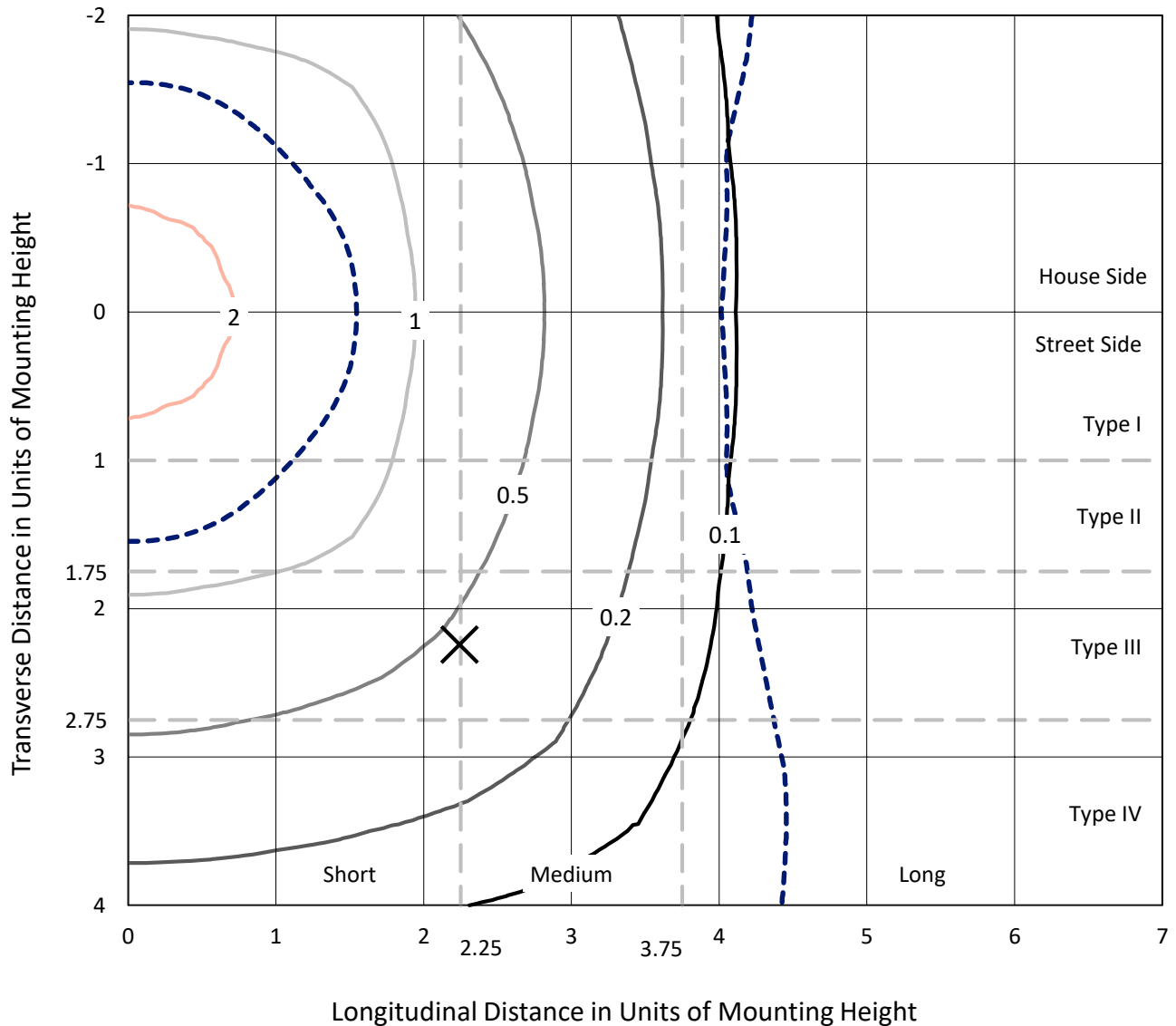
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

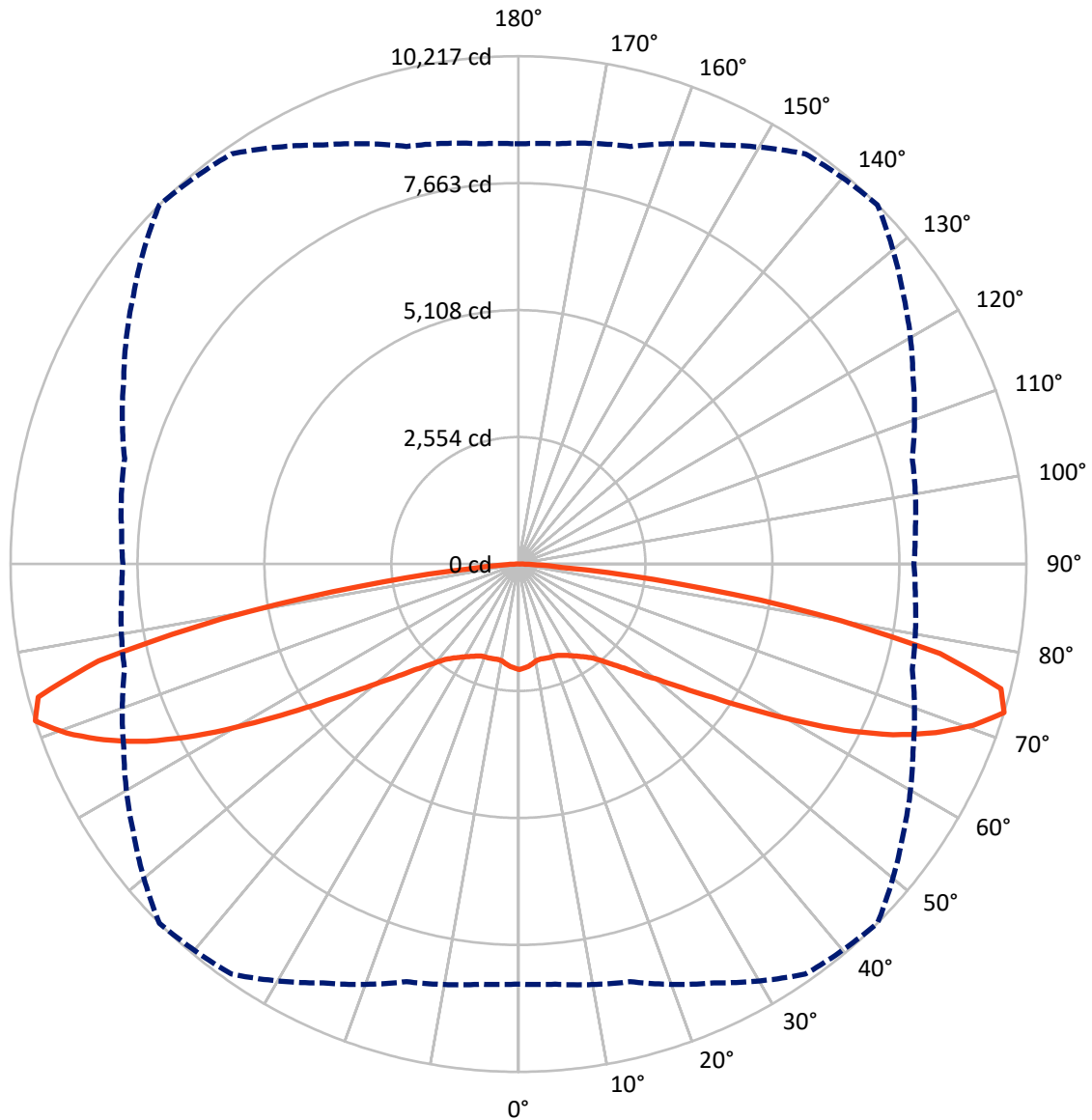
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	12877.4	0.0	12877.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12877.4	0.0	12877.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25754.8	0.0	25754.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.3	0.8
10°-20°	563.6	2.2
20°-30°	943.1	3.7
30°-40°	1449.1	5.6
40°-50°	2399.3	9.3
50°-60°	4265.5	16.6
60°-70°	7462.4	29.0
70°-80°	7592.4	29.5
80°-90°	884.1	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°	25754.8	100.0
0°-180°	25754.8	100.0



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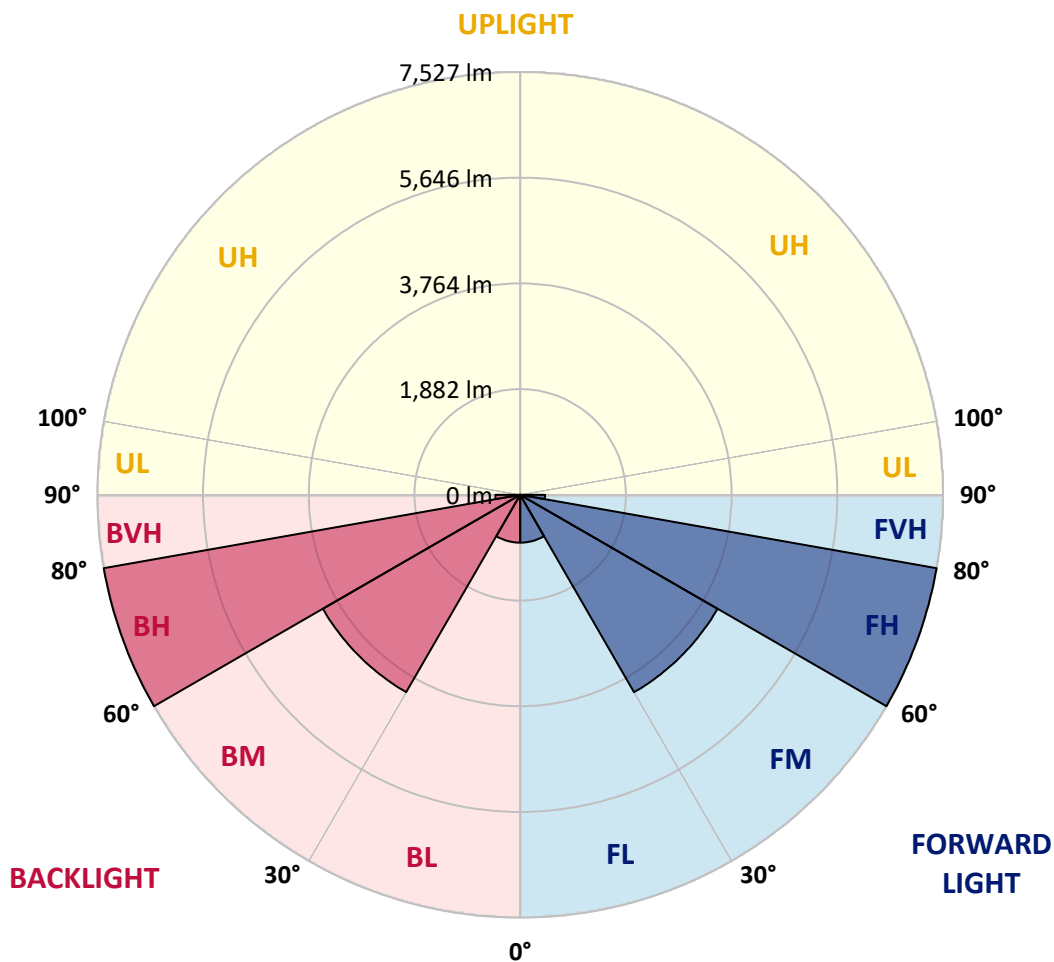
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.0	3.3			
FM	(30°-60°)	4057.0	15.8			
FH	(60°-80°)	7527.4	29.2			G4/12000
FVH	(80°-90°)	442.0	1.7			G3/500
BL	(0°-30°)	851.0	3.3	B2/1000		
BM	(30°-60°)	4057.0	15.8	B3/5000		
BH	(60°-80°)	7527.4	29.2	B5		G4/12000
BVH	(80°-90°)	442.0	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2103.2	2108.1	2098.3	2098.3	2098.3	2093.4	2098.3	2093.4	2098.3	2103.2	2103.2
5°	2083.5	2083.5	2073.7	2073.7	2073.7	2068.9	2073.7	2073.7	2078.6	2083.5	2083.5
7.5°	2039.5	2039.5	2034.5	2029.6	2024.7	2024.7	2029.6	2029.6	2034.5	2039.5	2039.5
10°	2014.9	2010.0	2000.3	1985.5	1980.6	1975.7	1985.5	1995.4	2010.0	2024.7	2019.8
12.5°	2005.1	2000.3	1980.6	1965.9	1956.1	1961.0	1970.8	1980.6	2005.1	2019.8	2014.9
15°	2014.9	2005.1	1980.6	1956.1	1961.0	1970.8	1980.6	1980.6	2010.0	2024.7	2024.7
17.5°	2014.9	2010.0	1980.6	1961.0	1965.9	1980.6	1985.5	1980.6	2005.1	2029.6	2029.6
20°	2019.8	2019.8	1980.6	1965.9	1970.8	1985.5	1990.5	1985.5	2005.1	2034.5	2034.5
22.5°	2029.6	2024.7	1985.5	1975.7	1985.5	1995.4	2000.3	1995.4	2014.9	2039.5	2044.4
25°	2049.3	2039.5	2005.1	2000.3	2019.8	2034.5	2034.5	2024.7	2034.5	2059.1	2059.1
27.5°	2073.7	2068.9	2029.6	2029.6	2054.2	2083.5	2068.9	2049.3	2059.1	2083.5	2083.5
30°	2117.9	2113.0	2073.7	2073.7	2108.1	2142.4	2108.1	2083.5	2098.3	2122.8	2127.7
32.5°	2181.6	2181.6	2147.3	2137.5	2196.4	2211.0	2196.4	2147.3	2157.1	2191.5	2191.5
35°	2289.5	2279.6	2245.4	2240.5	2299.3	2294.4	2289.5	2245.4	2255.2	2294.4	2294.4
37.5°	2431.7	2426.7	2397.4	2382.7	2412.0	2392.5	2402.2	2382.7	2407.1	2436.6	2441.5
40°	2613.0	2608.1	2583.7	2564.0	2573.8	2544.4	2554.2	2564.0	2588.6	2608.1	2613.0
42.5°	2838.6	2838.6	2814.0	2779.8	2765.0	2750.3	2750.3	2769.9	2794.4	2818.9	2818.9
45°	3118.1	3118.1	3088.6	3054.3	3010.1	2985.7	2995.4	3015.0	3044.5	3073.9	3083.7
47.5°	3446.5	3446.5	3407.2	3373.0	3328.8	3299.4	3299.4	3309.2	3353.3	3377.9	3392.5
50°	3814.2	3799.4	3760.3	3725.9	3701.4	3662.2	3667.1	3662.2	3701.4	3735.7	3745.5
52.5°	4196.6	4191.6	4152.5	4142.6	4157.4	4137.7	4137.7	4088.7	4103.5	4123.0	4118.1
55°	4672.1	4657.4	4623.1	4642.7	4701.5	4730.9	4721.1	4642.7	4598.6	4608.4	4603.5
57.5°	5191.8	5177.1	5167.2	5226.1	5358.4	5481.1	5456.5	5275.2	5191.8	5196.7	5201.6
60°	5721.3	5721.3	5750.6	5897.7	6182.1	6383.1	6309.6	6005.6	5858.5	5829.1	5819.3
62.5°	6265.5	6280.1	6343.8	6589.0	7025.3	7358.7	7172.4	6740.9	6520.4	6461.6	6441.9
65°	6897.9	6912.6	7005.7	7309.7	7888.2	8285.3	7966.6	7559.7	7250.9	7128.3	7108.7
67.5°	7814.6	7824.4	7898.0	8192.1	8736.3	9055.0	8726.5	8363.7	8030.4	7888.2	7878.4
70°	8638.3	8648.0	8711.8	9099.1	9599.2	9711.9	9349.2	8888.3	8540.2	8427.5	8407.8
72.5°	8451.9	8486.3	8697.1	9300.1	10069.8	10216.9	9452.1	8760.9	8201.9	8015.6	7956.8
75°	7089.0	7143.0	7476.3	8383.3	9609.0	10025.6	8844.1	7574.4	6740.9	6383.1	6289.9
77.5°	4137.7	4338.7	4912.3	6074.3	7824.4	8672.6	7285.1	5544.8	4142.6	3554.3	3358.2
80°	1132.5	1240.3	1657.1	2794.4	4907.4	6074.3	4647.6	2544.4	1372.7	1029.5	955.9
82.5°	357.9	475.6	603.0	804.0	1926.7	3201.3	1725.7	750.1	588.3	485.4	431.4
85°	191.2	205.9	338.3	392.2	578.5	897.1	534.4	392.2	353.0	259.8	245.1
87.5°	98.1	102.9	191.2	191.2	254.9	210.8	230.4	210.8	201.0	127.5	112.7
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)