

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: P236726

Luminaire Tested: **ARCH-L-AF72-130-D-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236726  
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-AF72-130-D-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18750.7 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

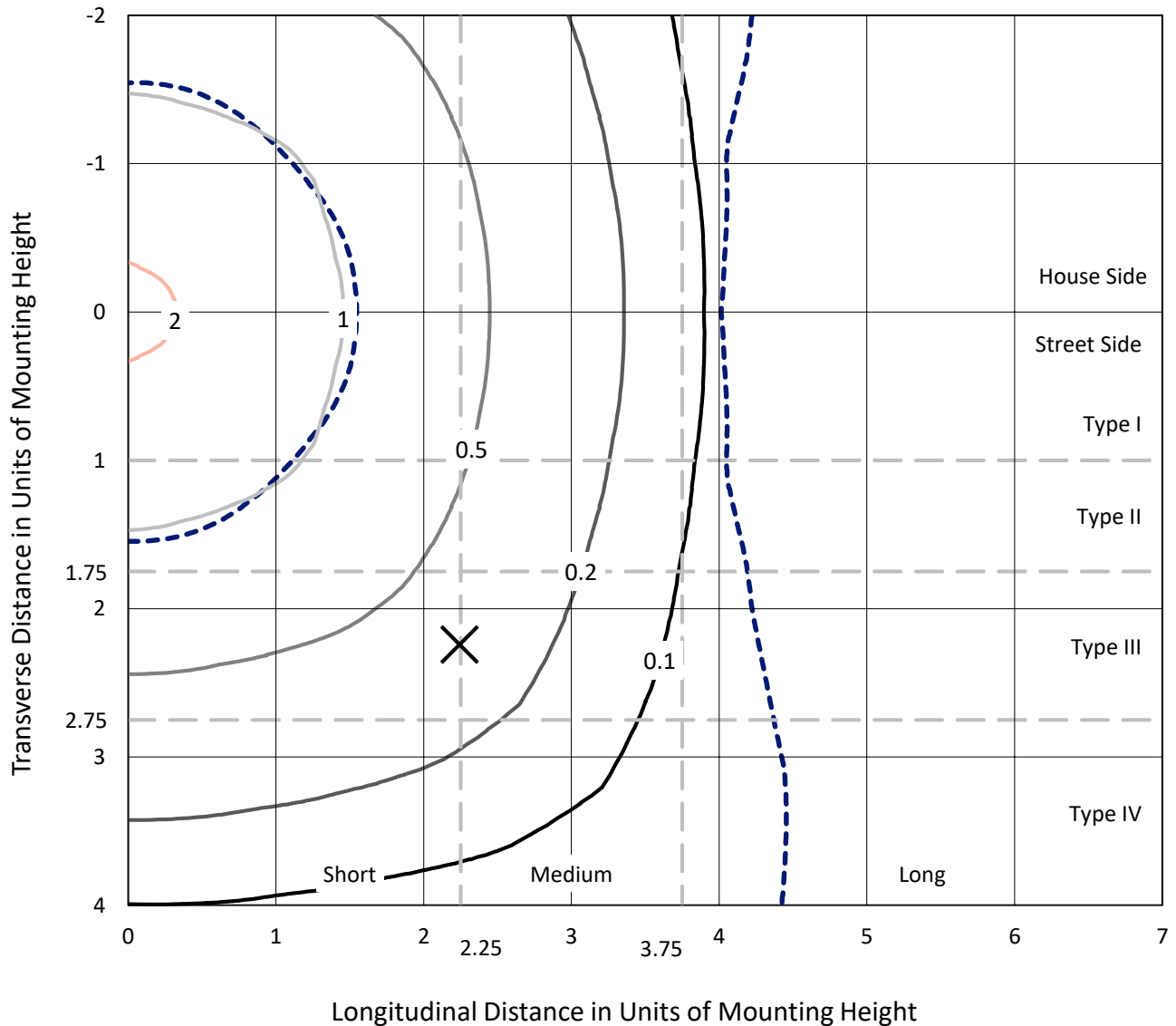
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

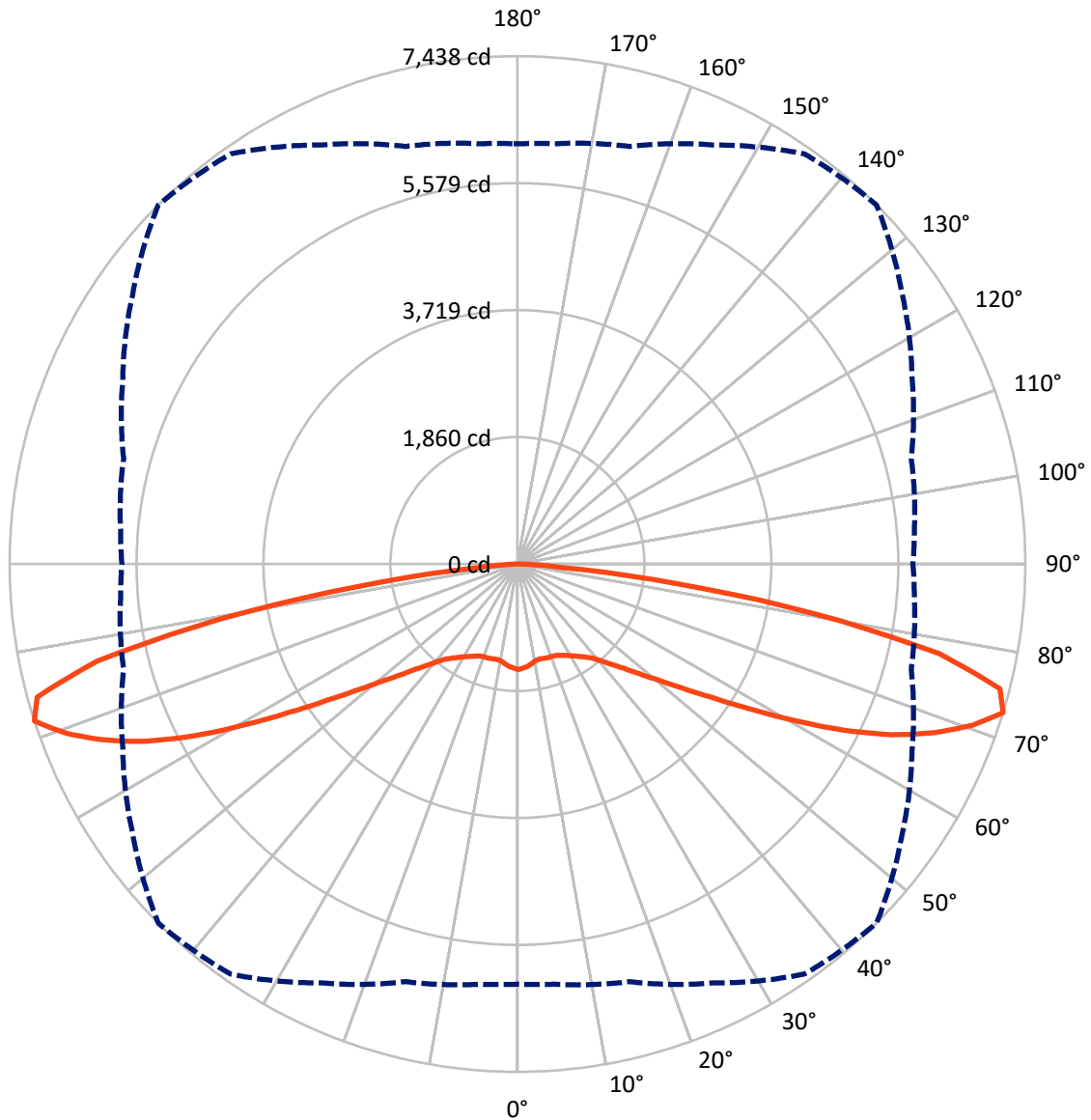


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Non-Cutoff

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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	9375.3	0.0	9375.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9375.3	0.0	9375.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18750.7	0.0	18750.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.2	0.8
10°-20°	410.3	2.2
20°-30°	686.6	3.7
30°-40°	1055.0	5.6
40°-50°	1746.8	9.3
50°-60°	3105.5	16.6
60°-70°	5433.0	29.0
70°-80°	5527.6	29.5
80°-90°	643.7	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°	18750.7	100.0
0°-180°	18750.7	100.0



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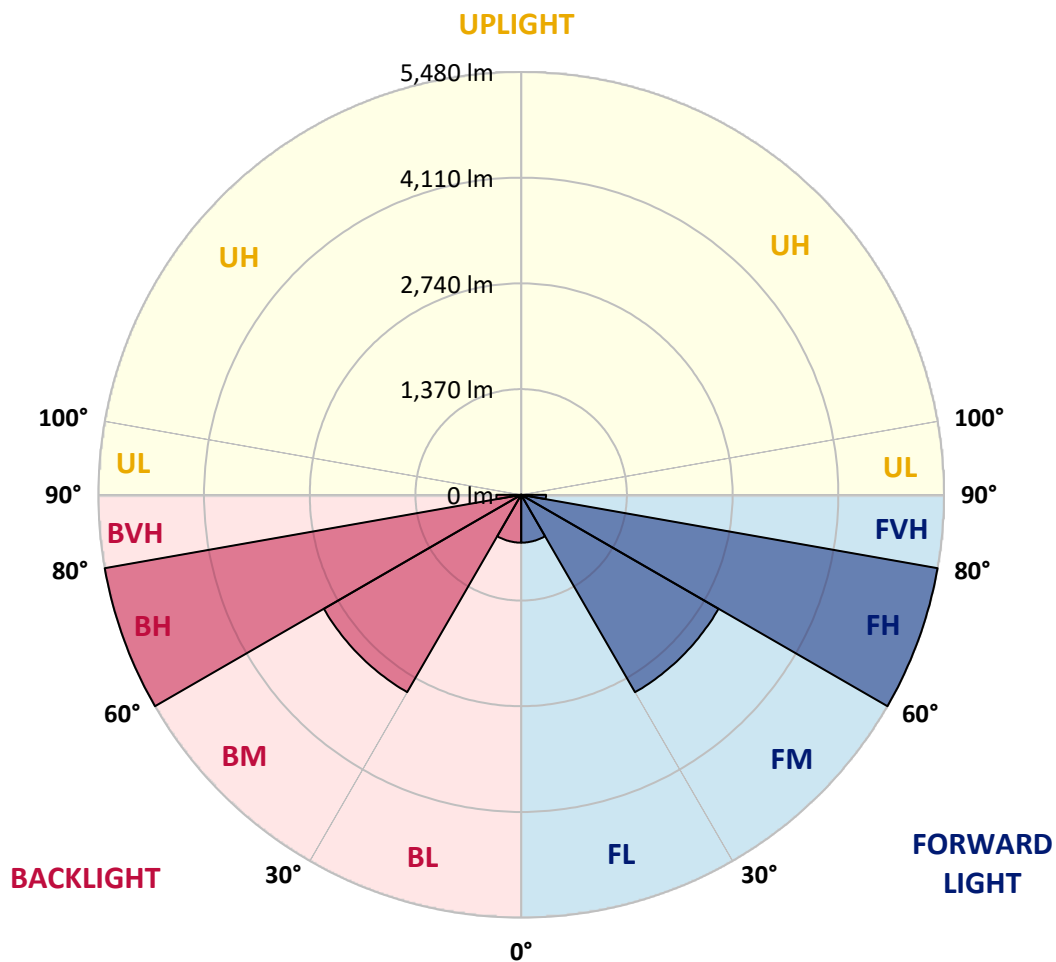
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.6	3.3			
FM	(30°-60°)	2953.6	15.8			
FH	(60°-80°)	5480.3	29.2			G3/7500
FVH	(80°-90°)	321.8	1.7			G3/500
BL	(0°-30°)	619.6	3.3	B2/1000		
BM	(30°-60°)	2953.6	15.8	B3/5000		
BH	(60°-80°)	5480.3	29.2	B5		G3/7500
BVH	(80°-90°)	321.8	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°	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5	1545.5
2.5°	1531.3	1534.8	1527.7	1527.7	1527.7	1524.1	1527.7	1524.1	1527.7	1531.3	1531.3
5°	1516.9	1516.9	1509.8	1509.8	1509.8	1506.2	1509.8	1509.8	1513.4	1516.9	1516.9
7.5°	1484.8	1484.8	1481.2	1477.7	1474.1	1474.1	1477.7	1477.7	1481.2	1484.8	1484.8
10°	1467.0	1463.4	1456.3	1445.5	1442.0	1438.4	1445.5	1452.7	1463.4	1474.1	1470.5
12.5°	1459.9	1456.3	1442.0	1431.3	1424.2	1427.7	1434.9	1442.0	1459.9	1470.5	1467.0
15°	1467.0	1459.9	1442.0	1424.2	1427.7	1434.9	1442.0	1442.0	1463.4	1474.1	1474.1
17.5°	1467.0	1463.4	1442.0	1427.7	1431.3	1442.0	1445.5	1442.0	1459.9	1477.7	1477.7
20°	1470.5	1470.5	1442.0	1431.3	1434.9	1445.5	1449.1	1445.5	1459.9	1481.2	1481.2
22.5°	1477.7	1474.1	1445.5	1438.4	1445.5	1452.7	1456.3	1452.7	1467.0	1484.8	1488.4
25°	1492.0	1484.8	1459.9	1456.3	1470.5	1481.2	1481.2	1474.1	1481.2	1499.1	1499.1
27.5°	1509.8	1506.2	1477.7	1477.7	1495.6	1516.9	1506.2	1492.0	1499.1	1516.9	1516.9
30°	1541.9	1538.3	1509.8	1509.8	1534.8	1559.8	1534.8	1516.9	1527.7	1545.5	1549.1
32.5°	1588.3	1588.3	1563.4	1556.2	1599.1	1609.7	1599.1	1563.4	1570.4	1595.5	1595.5
35°	1666.9	1659.7	1634.7	1631.2	1674.0	1670.4	1666.9	1634.7	1641.8	1670.4	1670.4
37.5°	1770.3	1766.7	1745.4	1734.6	1756.1	1741.8	1748.9	1734.6	1752.5	1773.9	1777.5
40°	1902.4	1898.8	1881.0	1866.7	1873.8	1852.5	1859.6	1866.7	1884.6	1898.8	1902.4
42.5°	2066.6	2066.6	2048.8	2023.8	2013.1	2002.3	2002.3	2016.6	2034.4	2052.3	2052.3
45°	2270.0	2270.0	2248.7	2223.7	2191.6	2173.7	2180.8	2195.0	2216.5	2237.9	2245.1
47.5°	2509.2	2509.2	2480.7	2455.7	2423.6	2402.1	2402.1	2409.3	2441.4	2459.2	2469.9
50°	2776.9	2766.2	2737.6	2712.7	2694.8	2666.2	2669.8	2666.2	2694.8	2719.8	2726.9
52.5°	3055.2	3051.8	3023.1	3016.1	3026.7	3012.5	3012.5	2976.8	2987.4	3001.7	2998.2
55°	3401.5	3390.8	3365.8	3380.1	3422.9	3444.4	3437.2	3380.1	3348.0	3355.1	3351.5
57.5°	3779.8	3769.2	3762.0	3804.9	3901.2	3990.4	3972.6	3840.6	3779.8	3783.4	3787.0
60°	4165.4	4165.4	4186.7	4293.8	4500.9	4647.2	4593.7	4372.4	4265.3	4243.8	4236.8
62.5°	4561.5	4572.2	4618.6	4797.1	5114.8	5357.5	5221.9	4907.7	4747.1	4704.2	4690.0
65°	5022.0	5032.7	5100.4	5321.8	5742.9	6032.0	5800.0	5503.8	5278.9	5189.7	5175.4
67.5°	5689.4	5696.5	5750.1	5964.2	6360.4	6592.4	6353.3	6089.2	5846.5	5742.9	5735.8
70°	6289.0	6296.2	6342.6	6624.5	6988.6	7070.7	6806.6	6471.1	6217.7	6135.6	6121.3
72.5°	6153.5	6178.4	6331.9	6770.9	7331.3	7438.4	6881.6	6378.3	5971.4	5835.7	5793.0
75°	5161.2	5200.4	5443.1	6103.4	6995.8	7299.2	6439.0	5514.5	4907.7	4647.2	4579.3
77.5°	3012.5	3158.8	3576.4	4422.3	5696.5	6314.1	5303.9	4036.9	3016.1	2587.8	2445.0
80°	824.5	903.1	1206.4	2034.4	3572.9	4422.3	3383.6	1852.5	999.4	749.5	696.0
82.5°	260.5	346.3	439.1	585.3	1402.8	2330.7	1256.4	546.1	428.3	353.3	314.0
85°	139.2	149.9	246.3	285.5	421.1	653.2	389.0	285.5	257.0	189.1	178.5
87.5°	71.4	75.0	139.2	139.2	185.6	153.4	167.8	153.4	146.4	92.8	82.1
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)