

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: P236728

Luminaire Tested: **ARCH-L-AF72-150-D-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236728  
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-AF72-150-D-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21135.2 lumens  
Efficiency: N/A  
Efficacy: 138.1 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

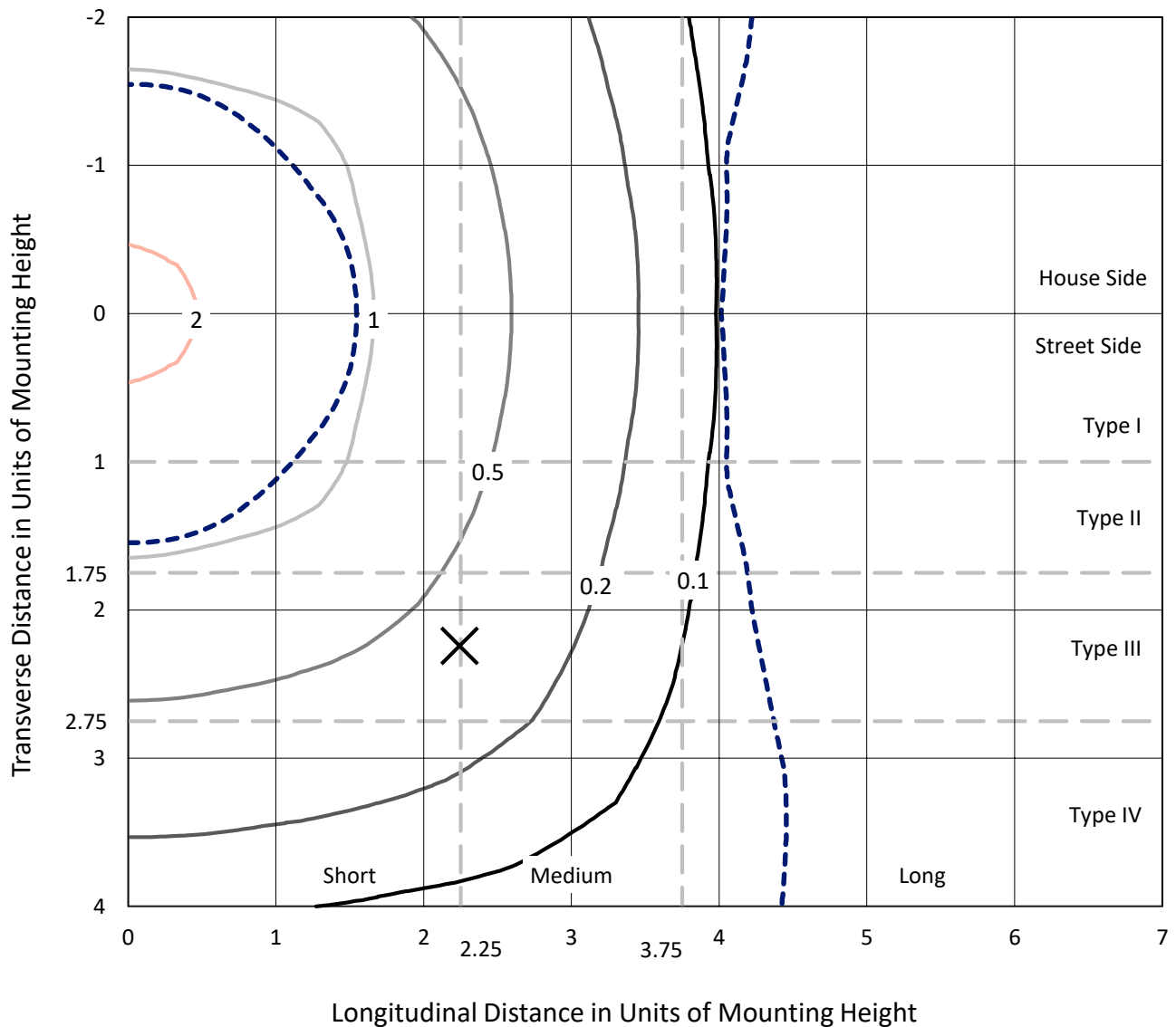
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

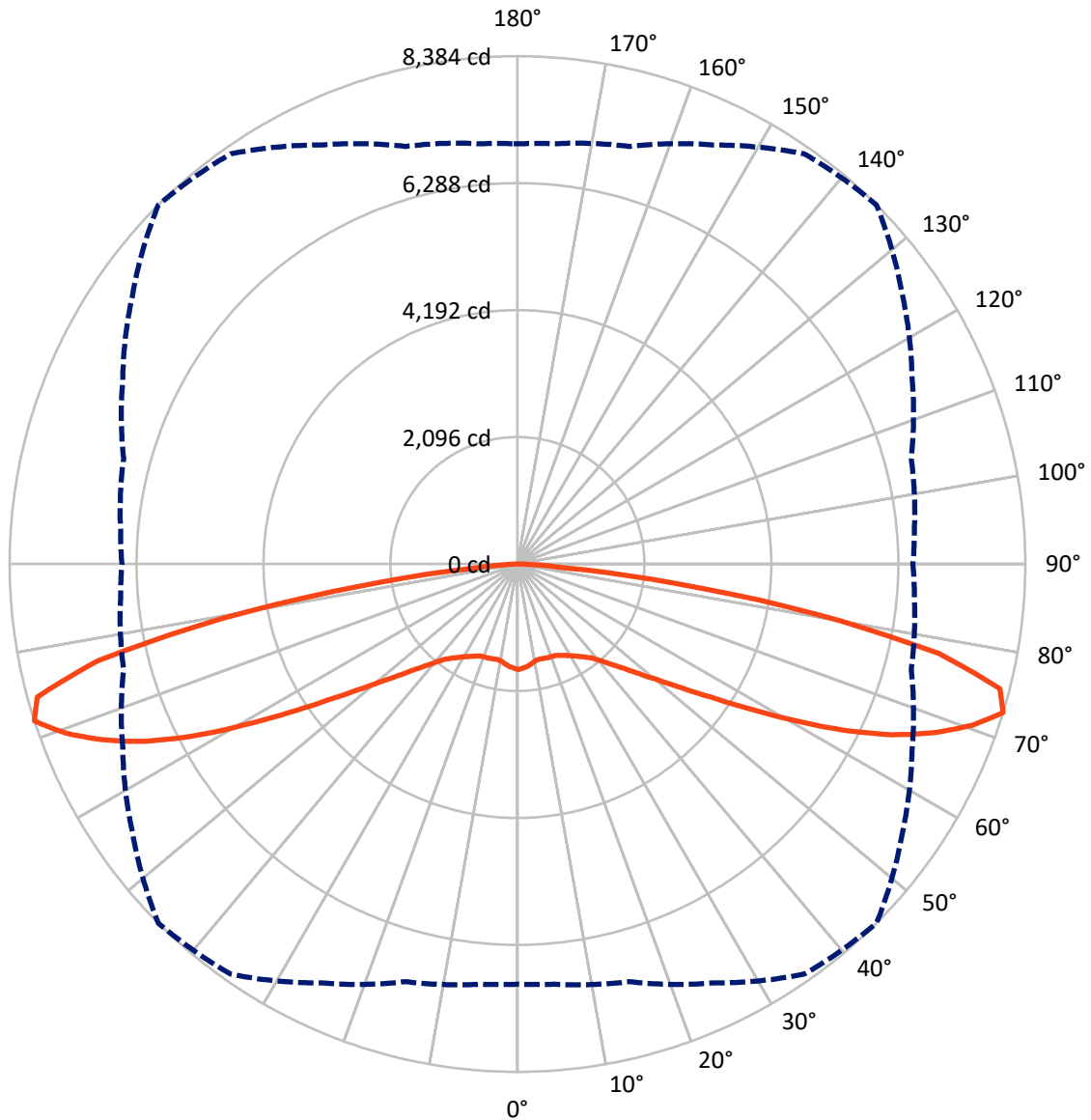
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	10567.6	0.0	10567.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10567.6	0.0	10567.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21135.2	0.0	21135.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.3	0.8
10°-20°	462.5	2.2
20°-30°	773.9	3.7
30°-40°	1189.1	5.6
40°-50°	1968.9	9.3
50°-60°	3500.4	16.6
60°-70°	6123.9	29.0
70°-80°	6230.6	29.5
80°-90°	725.5	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°	21135.2	100.0
0°-180°	21135.2	100.0



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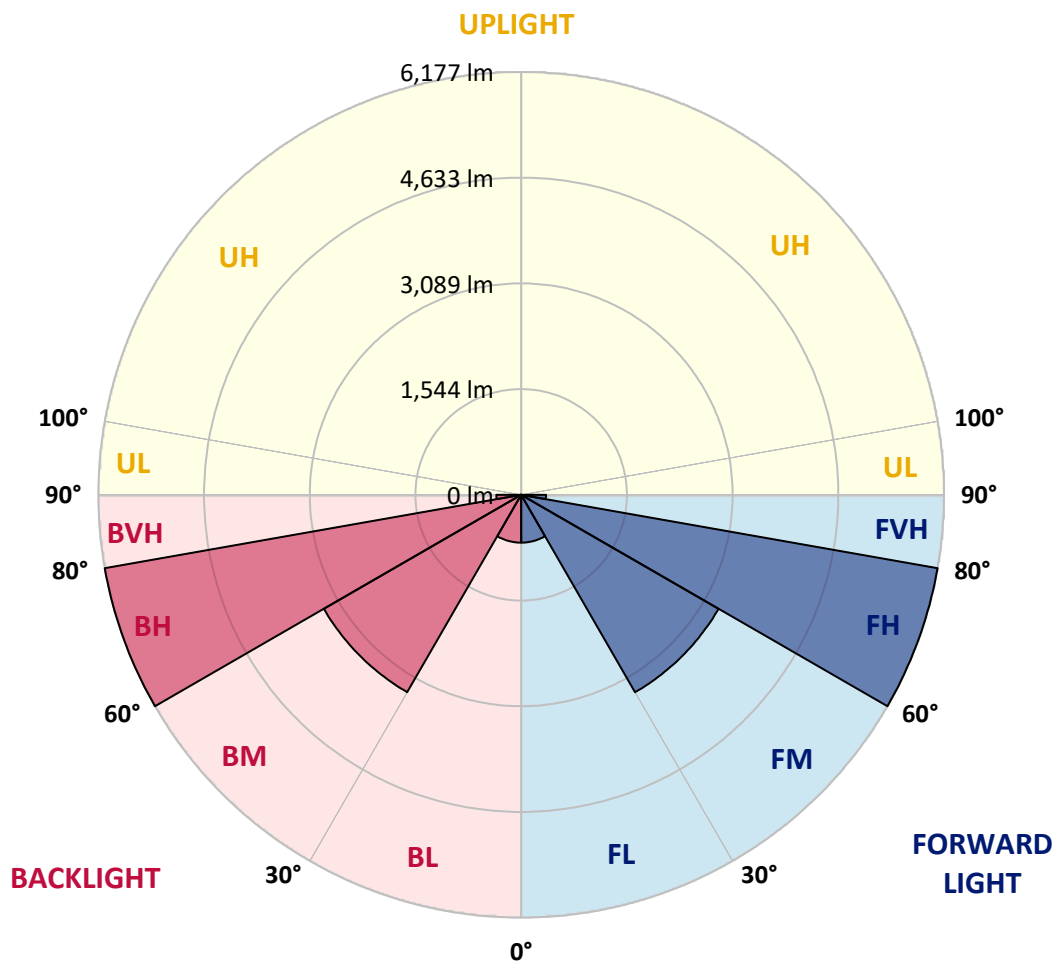
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.4	3.3			
FM	(30°-60°)	3329.3	15.8			
FH	(60°-80°)	6177.2	29.2			G3/7500
FVH	(80°-90°)	362.8	1.7			G3/500
BL	(0°-30°)	698.4	3.3	B2/1000		
BM	(30°-60°)	3329.3	15.8	B3/5000		
BH	(60°-80°)	6177.2	29.2	B5		G3/7500
BVH	(80°-90°)	362.8	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°	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1725.9	1729.9	1721.9	1721.9	1721.9	1717.8	1721.9	1717.8	1721.9	1725.9	1725.9
5°	1709.9	1709.9	1701.8	1701.8	1701.8	1697.8	1701.8	1701.8	1705.9	1709.9	1709.9
7.5°	1673.6	1673.6	1669.7	1665.6	1661.6	1661.6	1665.6	1665.6	1669.7	1673.6	1673.6
10°	1653.5	1649.5	1641.4	1629.4	1625.4	1621.4	1629.4	1637.4	1649.5	1661.6	1657.6
12.5°	1645.5	1641.4	1625.4	1613.3	1605.2	1609.3	1617.3	1625.4	1645.5	1657.6	1653.5
15°	1653.5	1645.5	1625.4	1605.2	1609.3	1617.3	1625.4	1625.4	1649.5	1661.6	1661.6
17.5°	1653.5	1649.5	1625.4	1609.3	1613.3	1625.4	1629.4	1625.4	1645.5	1665.6	1665.6
20°	1657.6	1657.6	1625.4	1613.3	1617.3	1629.4	1633.4	1629.4	1645.5	1669.7	1669.7
22.5°	1665.6	1661.6	1629.4	1621.4	1629.4	1637.4	1641.4	1637.4	1653.5	1673.6	1677.6
25°	1681.7	1673.6	1645.5	1641.4	1657.6	1669.7	1669.7	1661.6	1669.7	1689.7	1689.7
27.5°	1701.8	1697.8	1665.6	1665.6	1685.7	1709.9	1697.8	1681.7	1689.7	1709.9	1709.9
30°	1738.0	1734.0	1701.8	1701.8	1729.9	1758.1	1729.9	1709.9	1721.9	1742.0	1746.1
32.5°	1790.3	1790.3	1762.1	1754.1	1802.3	1814.4	1802.3	1762.1	1770.2	1798.3	1798.3
35°	1878.9	1870.8	1842.6	1838.5	1886.8	1882.8	1878.9	1842.6	1850.6	1882.8	1882.8
37.5°	1995.5	1991.5	1967.3	1955.3	1979.4	1963.3	1971.3	1955.3	1975.4	1999.6	2003.6
40°	2144.3	2140.3	2120.2	2104.1	2112.2	2088.0	2096.0	2104.1	2124.3	2140.3	2144.3
42.5°	2329.5	2329.5	2309.3	2281.2	2269.1	2257.0	2257.0	2273.1	2293.3	2313.3	2313.3
45°	2558.7	2558.7	2534.6	2506.4	2470.2	2450.1	2458.2	2474.2	2498.4	2522.5	2530.6
47.5°	2828.3	2828.3	2796.1	2767.9	2731.7	2707.5	2707.5	2715.6	2751.8	2772.0	2784.1
50°	3130.0	3118.0	3085.7	3057.6	3037.4	3005.3	3009.3	3005.3	3037.4	3065.7	3073.7
52.5°	3443.9	3439.8	3407.7	3399.6	3411.6	3395.6	3395.6	3355.3	3367.3	3383.5	3379.4
55°	3834.1	3822.1	3793.8	3810.0	3858.3	3882.4	3874.3	3810.0	3773.8	3781.7	3777.8
57.5°	4260.5	4248.4	4240.4	4288.7	4397.4	4497.9	4477.8	4328.9	4260.5	4264.6	4268.6
60°	4695.0	4695.0	4719.2	4839.9	5073.2	5238.1	5177.8	4928.4	4807.7	4783.5	4775.5
62.5°	5141.6	5153.6	5206.0	5407.1	5765.1	6038.8	5885.9	5531.8	5350.9	5302.6	5286.4
65°	5660.6	5672.7	5749.1	5998.6	6473.2	6799.1	6537.7	6203.7	5950.3	5849.6	5833.6
67.5°	6412.9	6421.0	6481.3	6722.7	7169.2	7430.8	7161.3	6863.5	6590.0	6473.2	6465.3
70°	7088.8	7096.8	7149.2	7467.0	7877.3	7969.9	7672.1	7294.0	7008.3	6915.9	6899.7
72.5°	6935.9	6964.1	7137.1	7631.9	8263.6	8384.3	7756.6	7189.4	6730.7	6577.9	6529.6
75°	5817.5	5861.7	6135.4	6879.7	7885.4	8227.4	7257.8	6215.8	5531.8	5238.1	5161.7
77.5°	3395.6	3560.5	4031.2	4984.7	6421.0	7117.0	5978.4	4550.2	3399.6	2916.8	2755.8
80°	929.4	1017.8	1359.8	2293.3	4027.2	4984.7	3814.0	2088.0	1126.5	844.9	784.5
82.5°	293.7	390.3	494.8	659.8	1581.1	2627.1	1416.2	615.5	482.7	398.3	354.0
85°	156.9	169.0	277.6	321.8	474.8	736.2	438.5	321.8	289.7	213.2	201.1
87.5°	80.5	84.5	156.9	156.9	209.2	173.0	189.0	173.0	164.9	104.6	92.6
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)