

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: P236707

Luminaire Tested: **ARCH-L-AF72-140-D-U-5WQ-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-140-D-U-5WQ-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18861.4 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

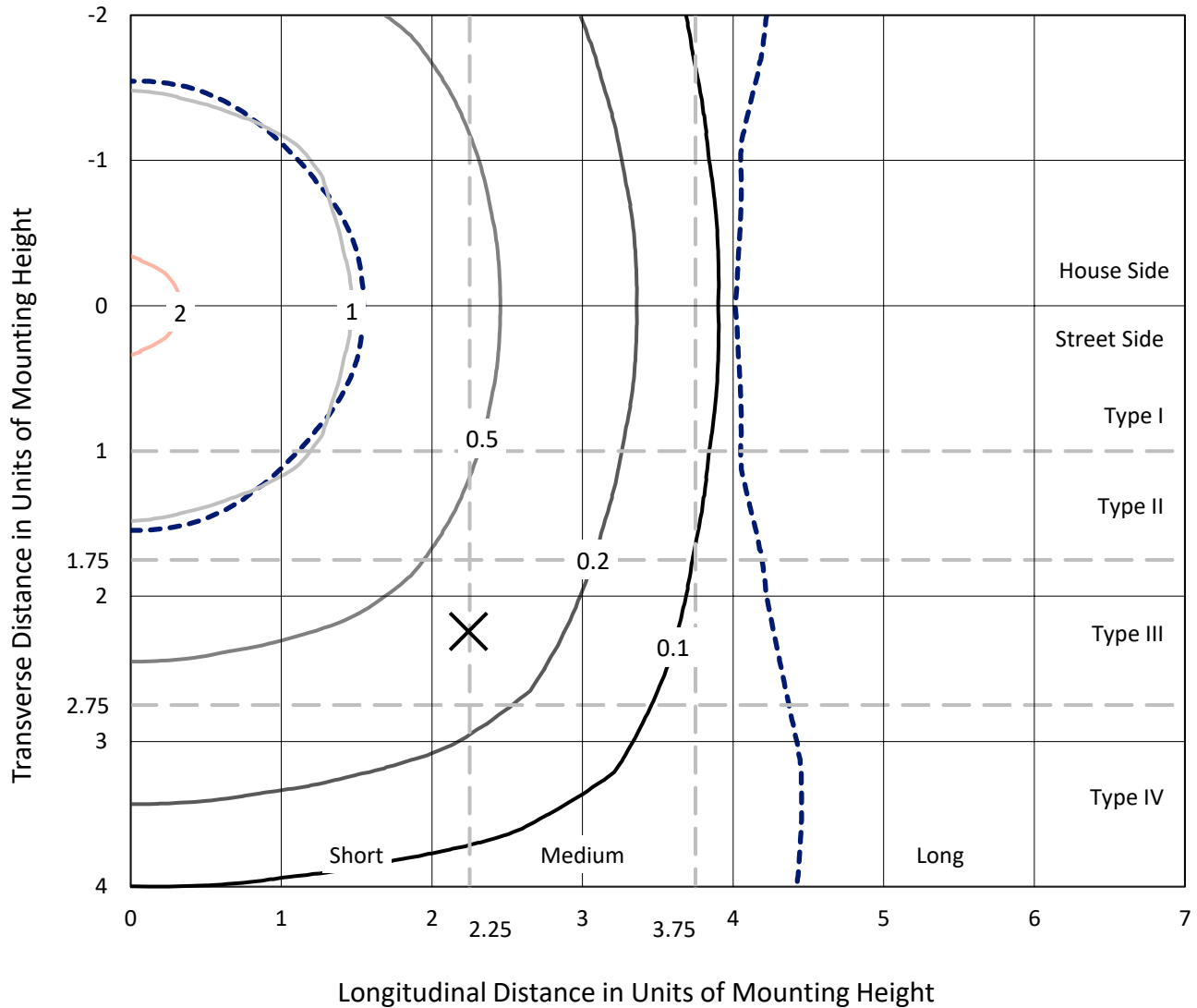
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

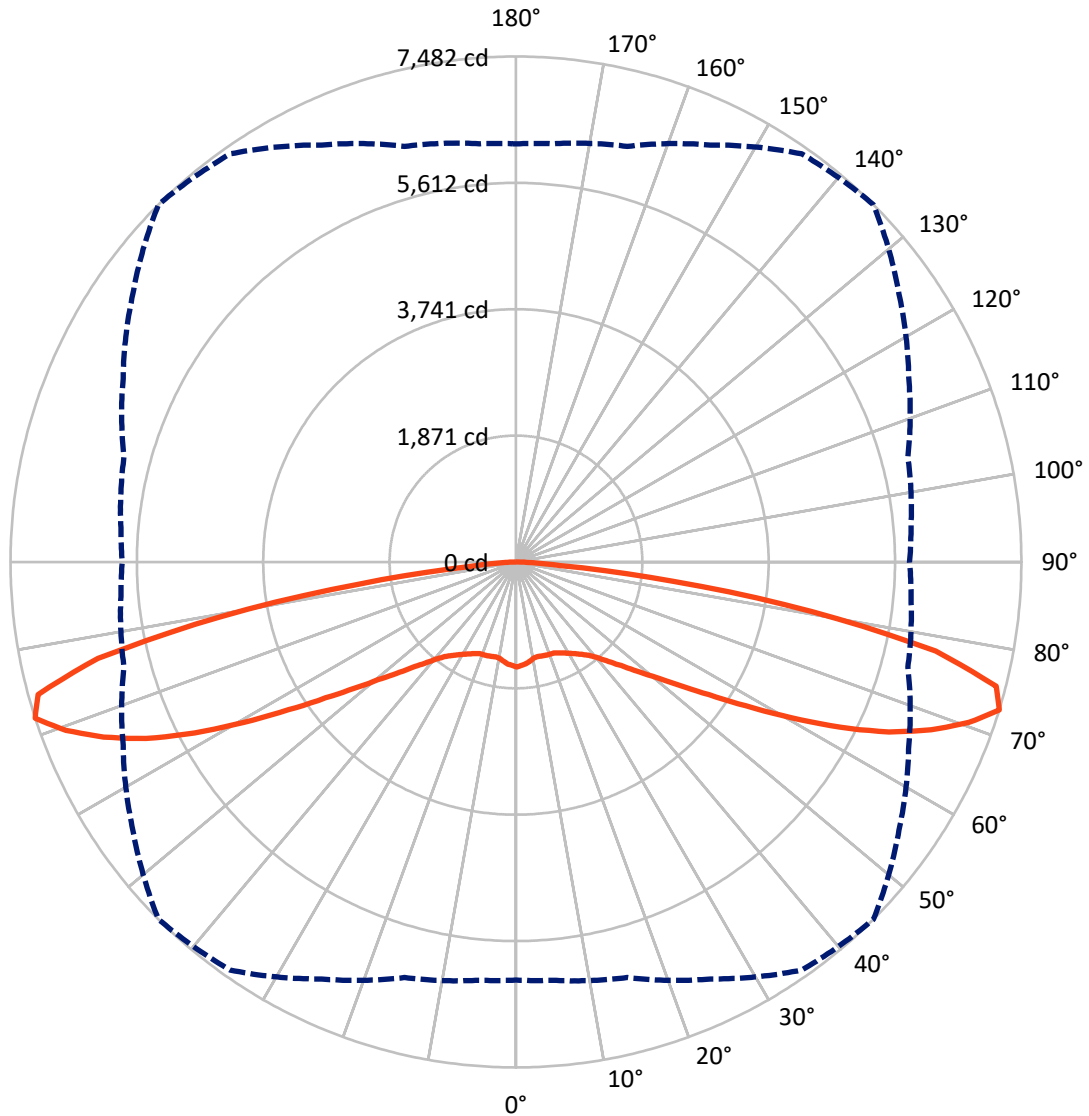
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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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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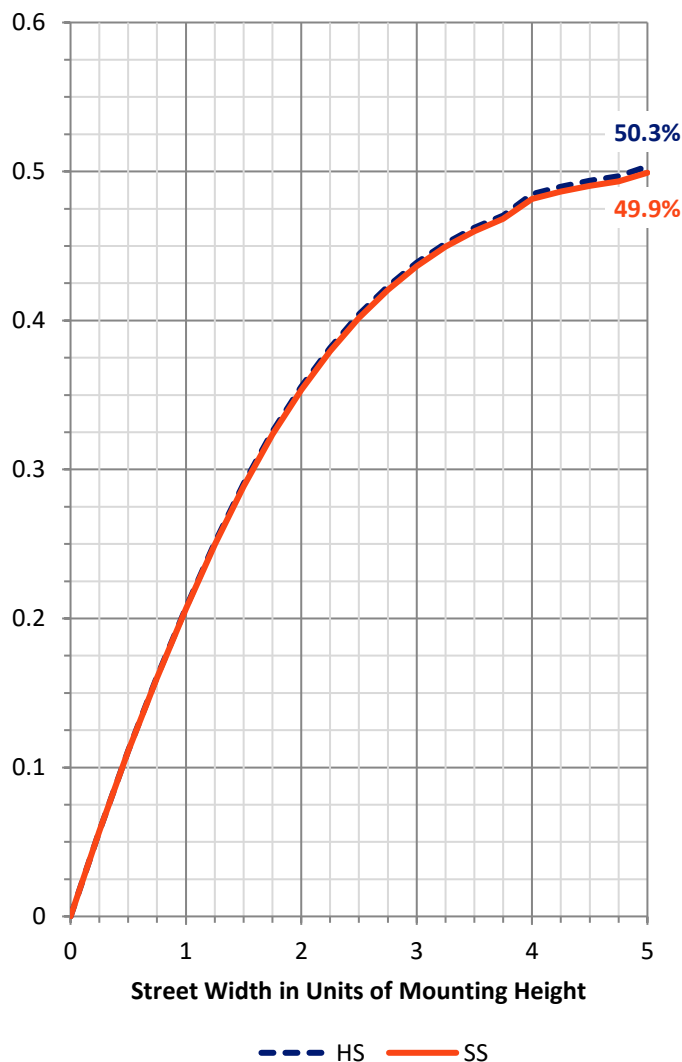
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9430.7	0.0	9430.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9430.7	0.0	9430.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18861.4	0.0	18861.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	0.8
10°-20°	412.7	2.2
20°-30°	690.7	3.7
30°-40°	1061.2	5.6
40°-50°	1757.1	9.3
50°-60°	3123.8	16.6
60°-70°	5465.1	29.0
70°-80°	5560.3	29.5
80°-90°	647.5	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°	18861.4	100.0
0°-180°	18861.4	100.0

**Coefficient of Utilization**

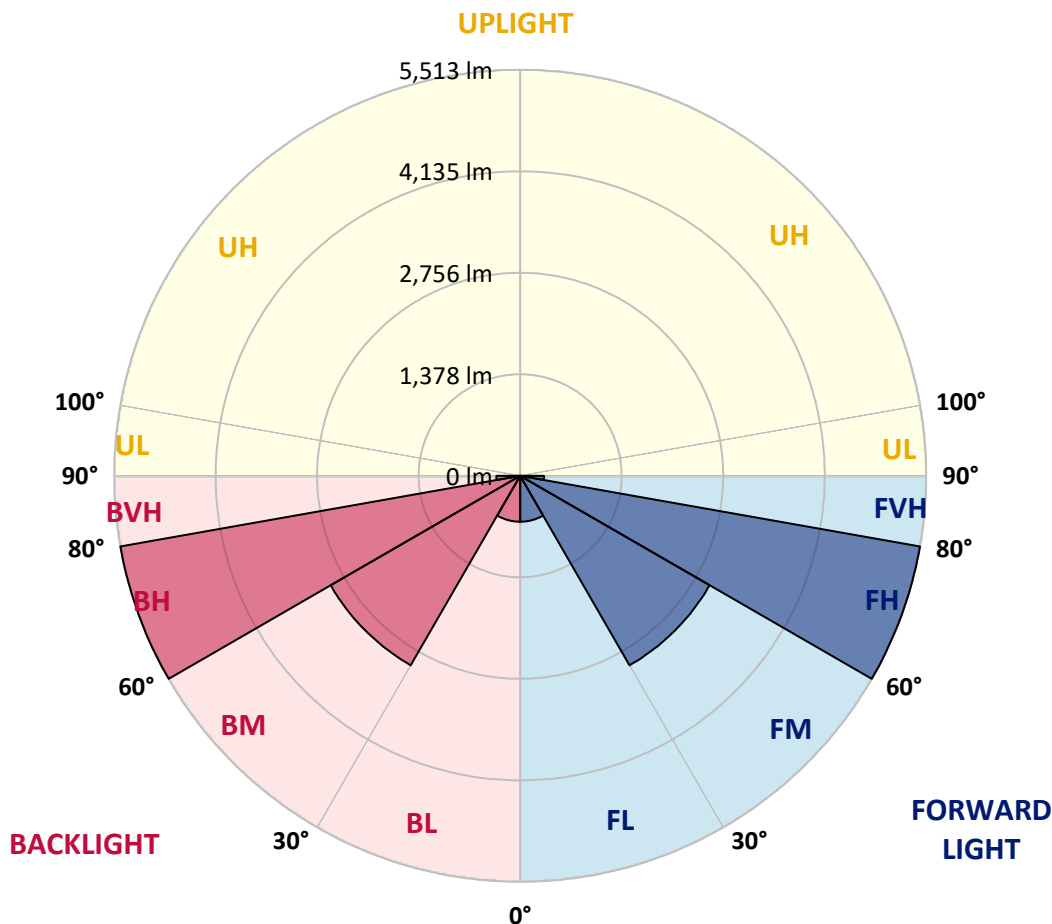


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.2	3.3			
FM (30°-60°)	2971.1	15.8			
FH (60°-80°)	5512.7	29.2			G3/7500
FVH (80°-90°)	323.7	1.7			G3/500
BL (0°-30°)	623.2	3.3	B2/1000		
BM (30°-60°)	2971.1	15.8	B3/5000		
BH (60°-80°)	5512.7	29.2	B5		G3/7500
BVH (80°-90°)	323.7	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°	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1540.2	1543.9	1536.6	1536.6	1536.6	1533.1	1536.6	1533.1	1536.6	1540.2	1540.2
5°	1526.0	1526.0	1518.7	1518.7	1518.7	1515.1	1518.7	1518.7	1522.3	1526.0	1526.0
7.5°	1493.6	1493.6	1490.0	1486.4	1482.8	1482.8	1486.4	1486.4	1490.0	1493.6	1493.6
10°	1475.6	1472.0	1464.8	1454.1	1450.5	1446.9	1454.1	1461.3	1472.0	1482.8	1479.3
12.5°	1468.5	1464.8	1450.5	1439.7	1432.5	1436.1	1443.4	1450.5	1468.5	1479.3	1475.6
15°	1475.6	1468.5	1450.5	1432.5	1436.1	1443.4	1450.5	1450.5	1472.0	1482.8	1482.8
17.5°	1475.6	1472.0	1450.5	1436.1	1439.7	1450.5	1454.1	1450.5	1468.5	1486.4	1486.4
20°	1479.3	1479.3	1450.5	1439.7	1443.4	1454.1	1457.6	1454.1	1468.5	1490.0	1490.0
22.5°	1486.4	1482.8	1454.1	1446.9	1454.1	1461.3	1464.8	1461.3	1475.6	1493.6	1497.2
25°	1500.7	1493.6	1468.5	1464.8	1479.3	1490.0	1490.0	1482.8	1490.0	1508.0	1508.0
27.5°	1518.7	1515.1	1486.4	1486.4	1504.4	1526.0	1515.1	1500.7	1508.0	1526.0	1526.0
30°	1551.1	1547.4	1518.7	1518.7	1543.9	1569.0	1543.9	1526.0	1536.6	1554.6	1558.2
32.5°	1597.7	1597.7	1572.6	1565.3	1608.6	1619.2	1608.6	1572.6	1579.8	1604.9	1604.9
35°	1676.7	1669.5	1644.4	1640.7	1683.9	1680.3	1676.7	1644.4	1651.6	1680.3	1680.3
37.5°	1780.8	1777.2	1755.7	1744.9	1766.5	1752.1	1759.3	1744.9	1762.9	1784.4	1788.0
40°	1913.6	1910.1	1892.2	1877.7	1884.9	1863.4	1870.5	1877.7	1895.6	1910.1	1913.6
42.5°	2078.7	2078.7	2060.8	2035.7	2024.9	2014.2	2014.2	2028.5	2046.5	2064.5	2064.5
45°	2283.4	2283.4	2261.8	2236.7	2204.6	2186.5	2193.7	2208.0	2229.7	2251.2	2258.3
47.5°	2524.0	2524.0	2495.3	2470.2	2437.8	2416.3	2416.3	2423.5	2455.8	2473.7	2484.5
50°	2793.3	2782.5	2753.8	2728.6	2710.7	2682.0	2685.6	2682.0	2710.7	2735.9	2743.1
52.5°	3073.4	3069.7	3041.0	3033.8	3044.6	3030.3	3030.3	2994.4	3005.0	3019.5	3015.9
55°	3421.6	3410.8	3385.7	3400.0	3443.1	3464.7	3457.5	3400.0	3367.7	3374.9	3371.3
57.5°	3802.2	3791.4	3784.2	3827.4	3924.3	4013.9	3996.0	3863.2	3802.2	3805.7	3809.4
60°	4190.0	4190.0	4211.5	4319.2	4527.3	4674.6	4620.8	4398.1	4290.5	4268.9	4261.7
62.5°	4588.5	4599.3	4645.9	4825.4	5145.0	5389.1	5252.6	4936.8	4775.1	4732.1	4717.7
65°	5051.6	5062.4	5130.6	5353.1	5776.9	6067.7	5834.3	5536.2	5310.1	5220.4	5205.9
67.5°	5723.0	5730.2	5784.0	5999.4	6398.0	6631.4	6390.8	6125.2	5881.0	5776.9	5769.7
70°	6326.2	6333.3	6380.0	6663.7	7029.8	7112.4	6846.8	6509.3	6254.3	6171.8	6157.5
72.5°	6189.7	6214.8	6369.3	6810.9	7374.6	7482.3	6922.2	6415.9	6006.6	5870.2	5827.2
75°	5191.7	5231.2	5475.3	6139.5	7037.1	7342.2	6477.0	5547.1	4936.8	4674.6	4606.4
77.5°	3030.3	3177.5	3597.6	4448.5	5730.2	6351.3	5335.2	4060.7	3033.8	2603.0	2459.4
80°	829.4	908.4	1213.6	2046.5	3594.0	4448.5	3403.7	1863.4	1005.3	754.0	700.2
82.5°	262.1	348.2	441.6	588.8	1411.0	2344.4	1263.8	549.3	430.8	355.4	316.0
85°	140.1	150.8	247.7	287.3	423.7	657.0	391.3	287.3	258.5	190.3	179.5
87.5°	71.8	75.4	140.1	140.1	186.8	154.4	168.7	154.4	147.2	93.3	82.6
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)