

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: P236747

Luminaire Tested: **ARCH-L-AF72-140-D-U-5WQ-7050**

Issue Date: 2/14/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 2/14/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-140-D-U-5WQ-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 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: 19502 lumens  
Efficiency: N/A  
Efficacy: 136.4 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

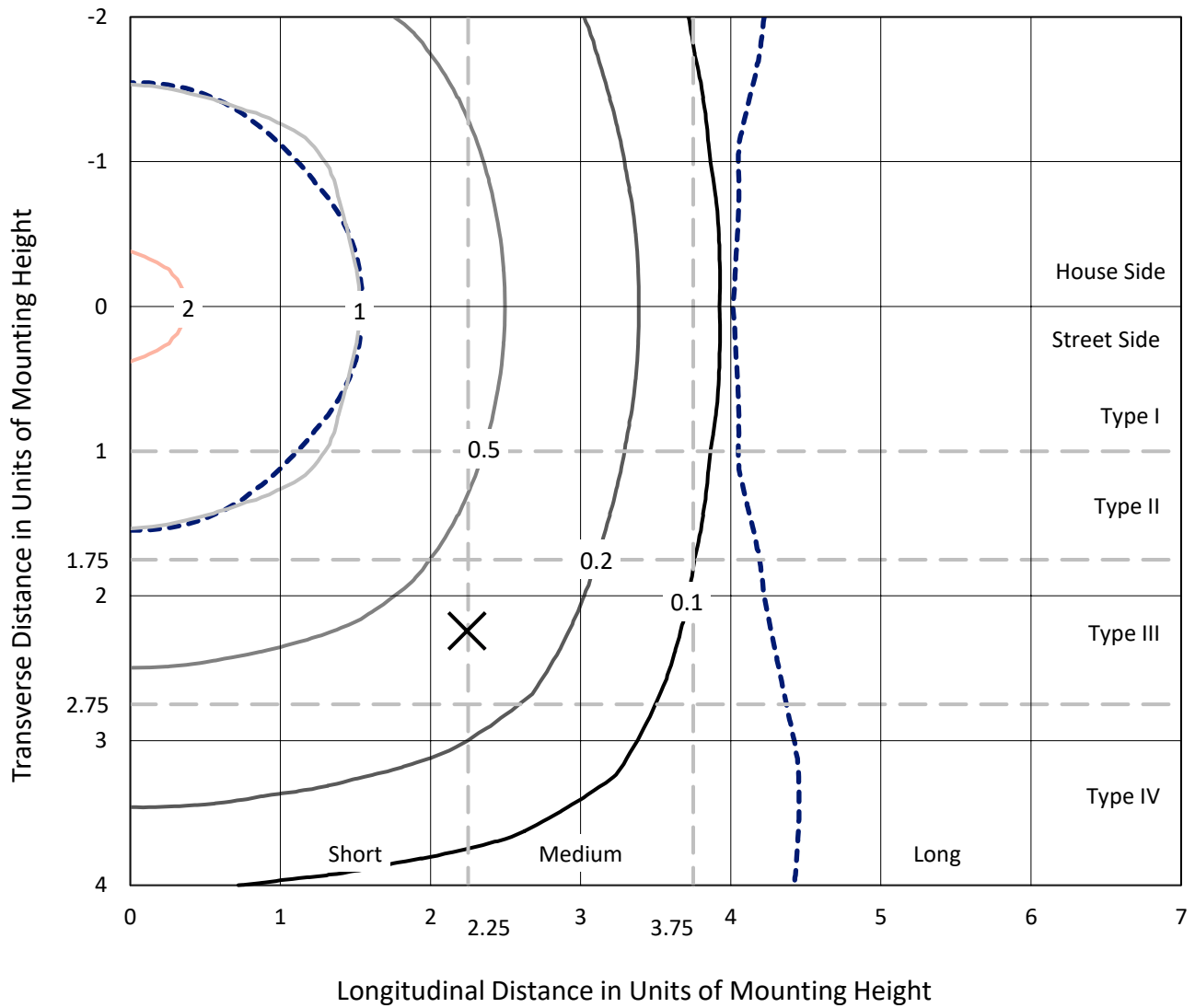
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

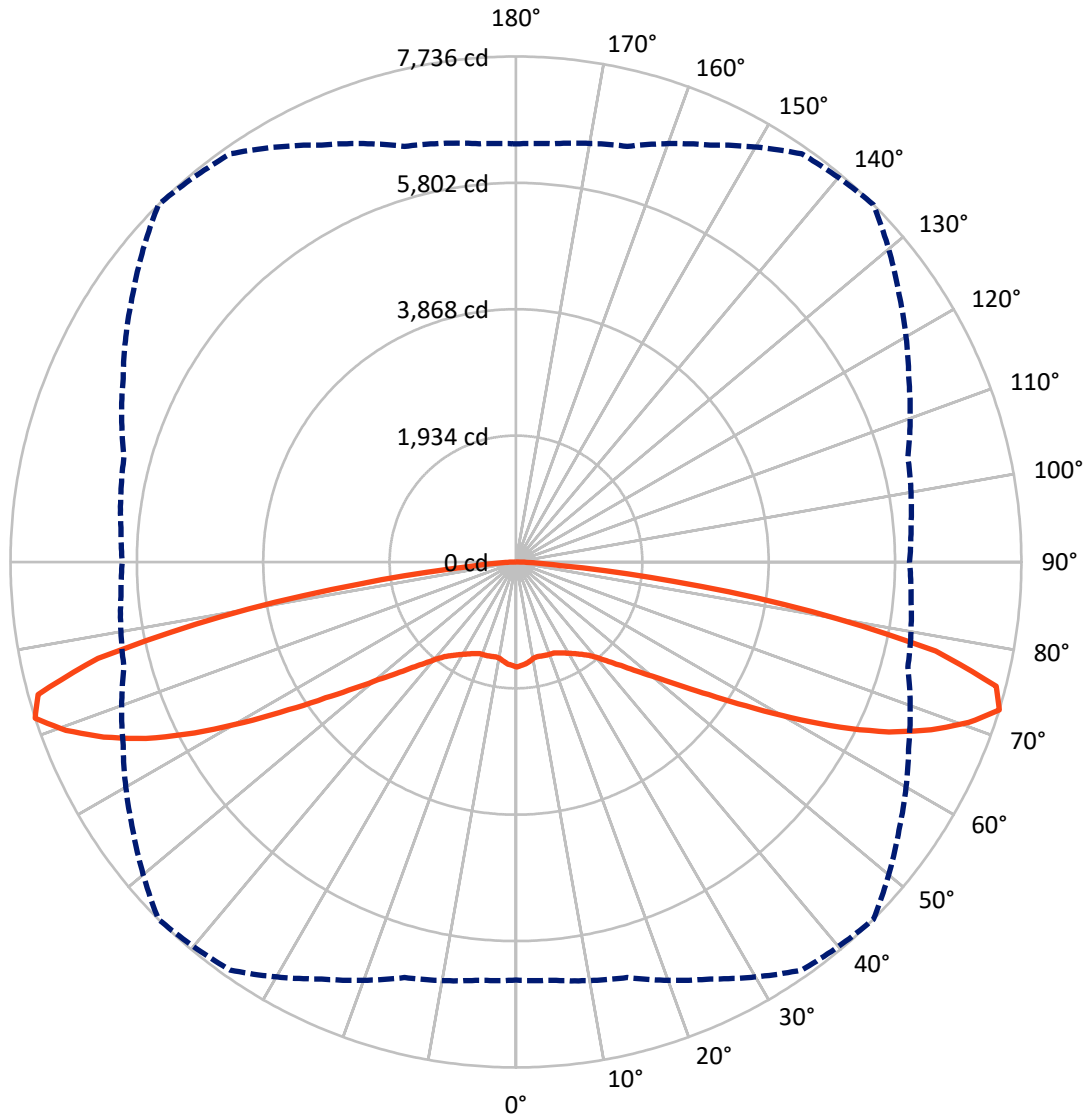
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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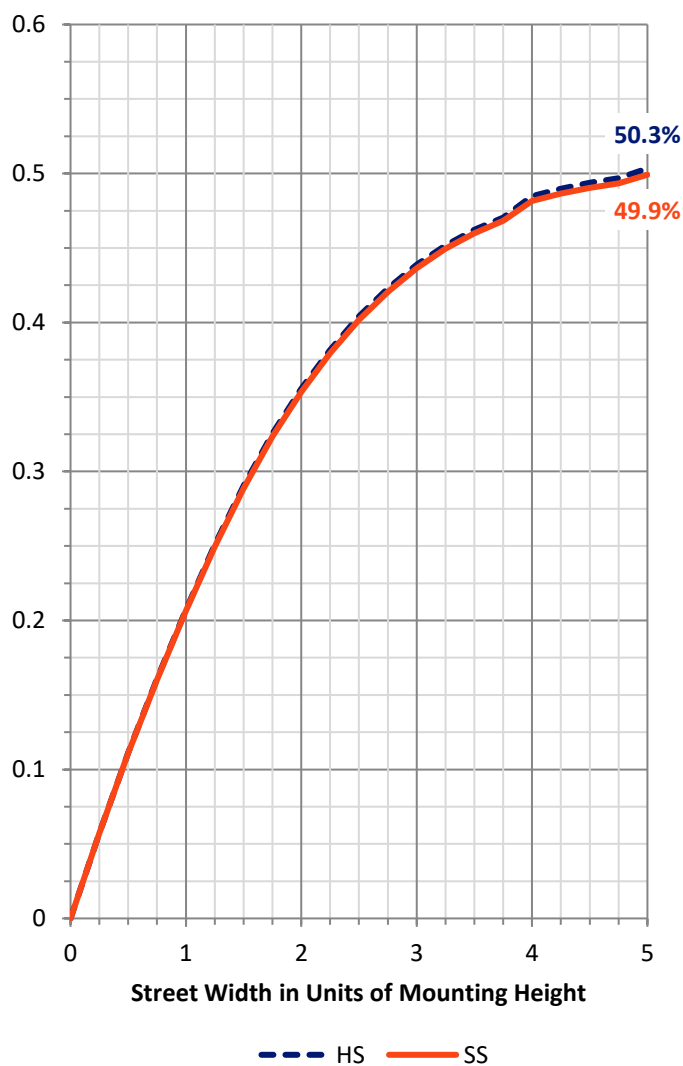
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9751.0	0.0	9751.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9751.0	0.0	9751.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19502.0	0.0	19502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	0.8
10°-20°	426.7	2.2
20°-30°	714.1	3.7
30°-40°	1097.3	5.6
40°-50°	1816.8	9.3
50°-60°	3229.9	16.6
60°-70°	5650.7	29.0
70°-80°	5749.1	29.5
80°-90°	669.4	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°	19502.0	100.0
0°-180°	19502.0	100.0

**Coefficient of Utilization**



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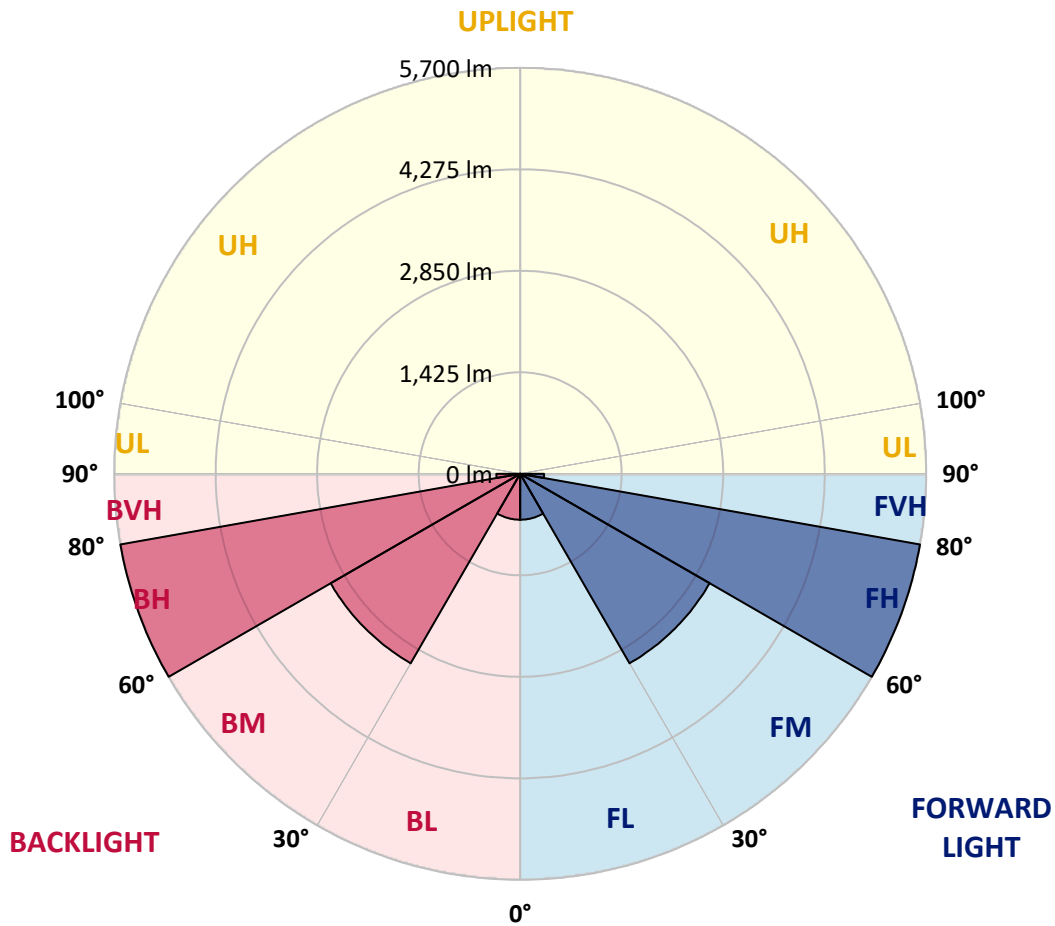
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.4	3.3			
FM (30°-60°)	3072.0	15.8			
FH (60°-80°)	5699.9	29.2			G3/7500
FVH (80°-90°)	334.7	1.7			G3/500
BL (0°-30°)	644.4	3.3	B2/1000		
BM (30°-60°)	3072.0	15.8	B3/5000		
BH (60°-80°)	5699.9	29.2	B5		G3/7500
BVH (80°-90°)	334.7	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°	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1592.6	1596.3	1588.9	1588.9	1588.9	1585.1	1588.9	1585.1	1588.9	1592.6	1592.6
5°	1577.7	1577.7	1570.3	1570.3	1570.3	1566.6	1570.3	1570.3	1574.0	1577.7	1577.7
7.5°	1544.3	1544.3	1540.6	1536.9	1533.2	1533.2	1536.9	1536.9	1540.6	1544.3	1544.3
10°	1525.7	1522.0	1514.6	1503.5	1499.8	1496.0	1503.5	1510.9	1522.0	1533.2	1529.5
12.5°	1518.3	1514.6	1499.8	1488.6	1481.2	1484.9	1492.3	1499.8	1518.3	1529.5	1525.7
15°	1525.7	1518.3	1499.8	1481.2	1484.9	1492.3	1499.8	1499.8	1522.0	1533.2	1533.2
17.5°	1525.7	1522.0	1499.8	1484.9	1488.6	1499.8	1503.5	1499.8	1518.3	1536.9	1536.9
20°	1529.5	1529.5	1499.8	1488.6	1492.3	1503.5	1507.2	1503.5	1518.3	1540.6	1540.6
22.5°	1536.9	1533.2	1503.5	1496.0	1503.5	1510.9	1514.6	1510.9	1525.7	1544.3	1548.0
25°	1551.7	1544.3	1518.3	1514.6	1529.5	1540.6	1540.6	1533.2	1540.6	1559.2	1559.2
27.5°	1570.3	1566.6	1536.9	1536.9	1555.4	1577.7	1566.6	1551.7	1559.2	1577.7	1577.7
30°	1603.7	1600.0	1570.3	1570.3	1596.3	1622.3	1596.3	1577.7	1588.9	1607.4	1611.1
32.5°	1652.0	1652.0	1626.0	1618.6	1663.1	1674.2	1663.1	1626.0	1633.4	1659.4	1659.4
35°	1733.6	1726.2	1700.2	1696.5	1741.1	1737.3	1733.6	1700.2	1707.6	1737.3	1737.3
37.5°	1841.3	1837.6	1815.3	1804.2	1826.4	1811.6	1819.0	1804.2	1822.7	1845.0	1848.7
40°	1978.6	1974.9	1956.4	1941.5	1948.9	1926.7	1934.1	1941.5	1960.1	1974.9	1978.6
42.5°	2149.4	2149.4	2130.8	2104.9	2093.7	2082.6	2082.6	2097.4	2116.0	2134.6	2134.6
45°	2361.0	2361.0	2338.7	2312.8	2279.3	2260.8	2268.2	2283.1	2305.3	2327.6	2335.0
47.5°	2609.7	2609.7	2580.0	2554.0	2520.6	2498.4	2498.4	2505.8	2539.2	2557.8	2568.9
50°	2888.2	2877.0	2847.3	2821.3	2802.8	2773.1	2776.8	2773.1	2802.8	2828.8	2836.2
52.5°	3177.7	3174.0	3144.3	3136.9	3148.0	3133.2	3133.2	3096.0	3107.2	3122.0	3118.3
55°	3537.8	3526.7	3500.7	3515.5	3560.1	3582.4	3574.9	3515.5	3482.1	3489.5	3485.8
57.5°	3931.3	3920.2	3912.7	3957.3	4057.5	4150.3	4131.8	3994.4	3931.3	3935.0	3938.7
60°	4332.2	4332.2	4354.5	4465.9	4681.2	4833.4	4777.7	4547.5	4436.2	4413.9	4406.5
62.5°	4744.3	4755.4	4803.7	4989.3	5319.7	5572.1	5431.1	5104.4	4937.3	4892.8	4877.9
65°	5223.2	5234.3	5304.9	5535.0	5973.1	6273.8	6032.5	5724.3	5490.5	5397.7	5382.8
67.5°	5917.4	5924.8	5980.5	6203.2	6615.3	6856.6	6607.9	6333.2	6080.7	5973.1	5965.6
70°	6541.0	6548.5	6596.7	6890.0	7268.6	7354.0	7079.3	6730.4	6466.8	6381.4	6366.6
72.5°	6400.0	6426.0	6585.6	7042.2	7625.0	7736.4	7157.3	6633.8	6210.6	6069.6	6025.0
75°	5368.0	5408.8	5661.2	6348.0	7276.1	7591.6	6697.0	5735.5	5104.4	4833.4	4762.9
77.5°	3133.2	3285.4	3719.7	4599.5	5924.8	6567.0	5516.5	4198.6	3136.9	2691.4	2542.9
80°	857.5	939.2	1254.8	2116.0	3716.0	4599.5	3519.2	1926.7	1039.4	779.6	723.9
82.5°	271.0	360.1	456.6	608.8	1458.9	2424.1	1306.7	568.0	445.5	367.5	326.7
85°	144.8	155.9	256.1	297.0	438.0	679.3	404.6	297.0	267.3	196.8	185.6
87.5°	74.2	78.0	144.8	144.8	193.0	159.6	174.5	159.6	152.2	96.5	85.4
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)