

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: P397976

Luminaire Tested: **ARCH-S-PA1-70-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-70-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9372 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

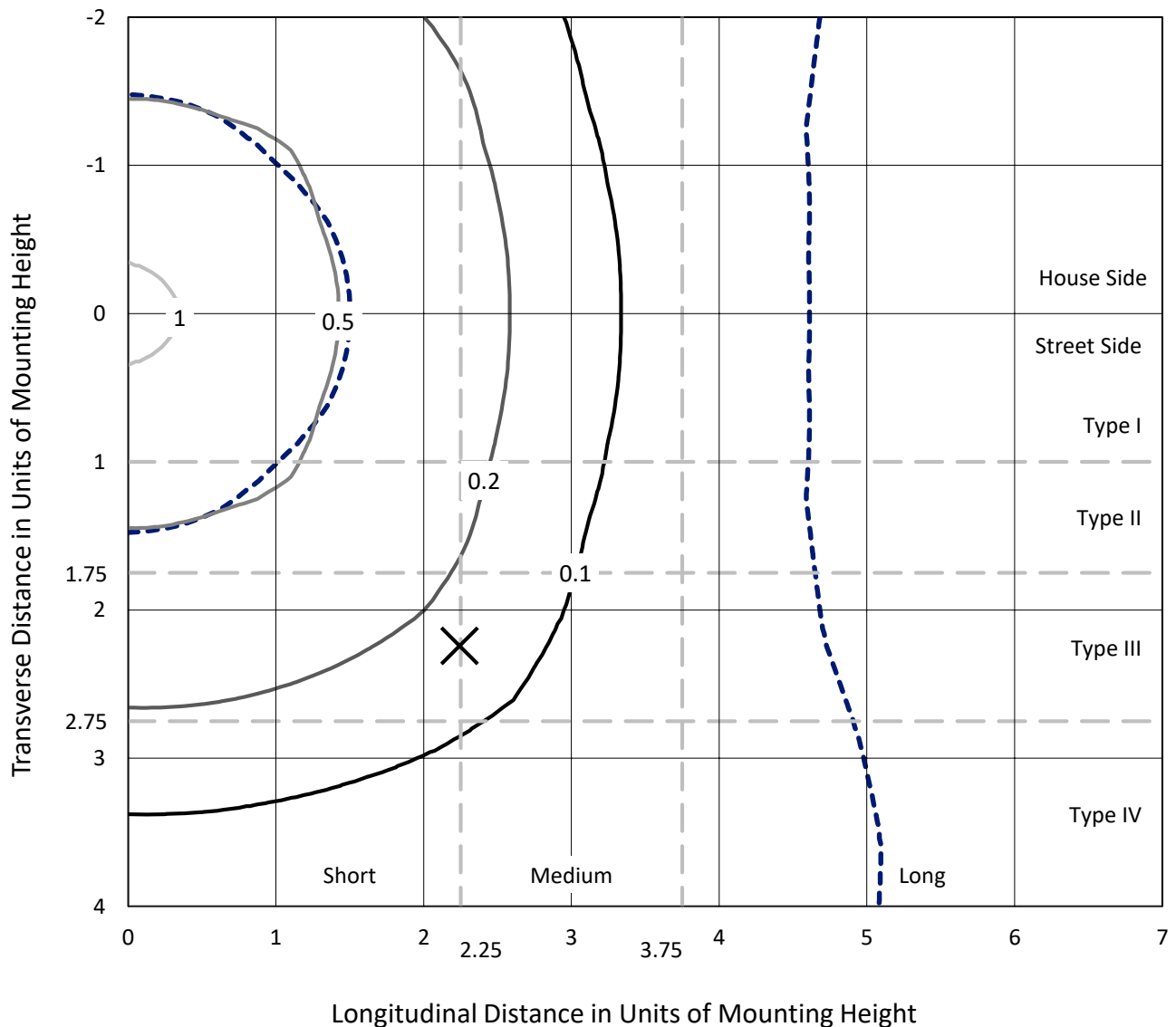
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

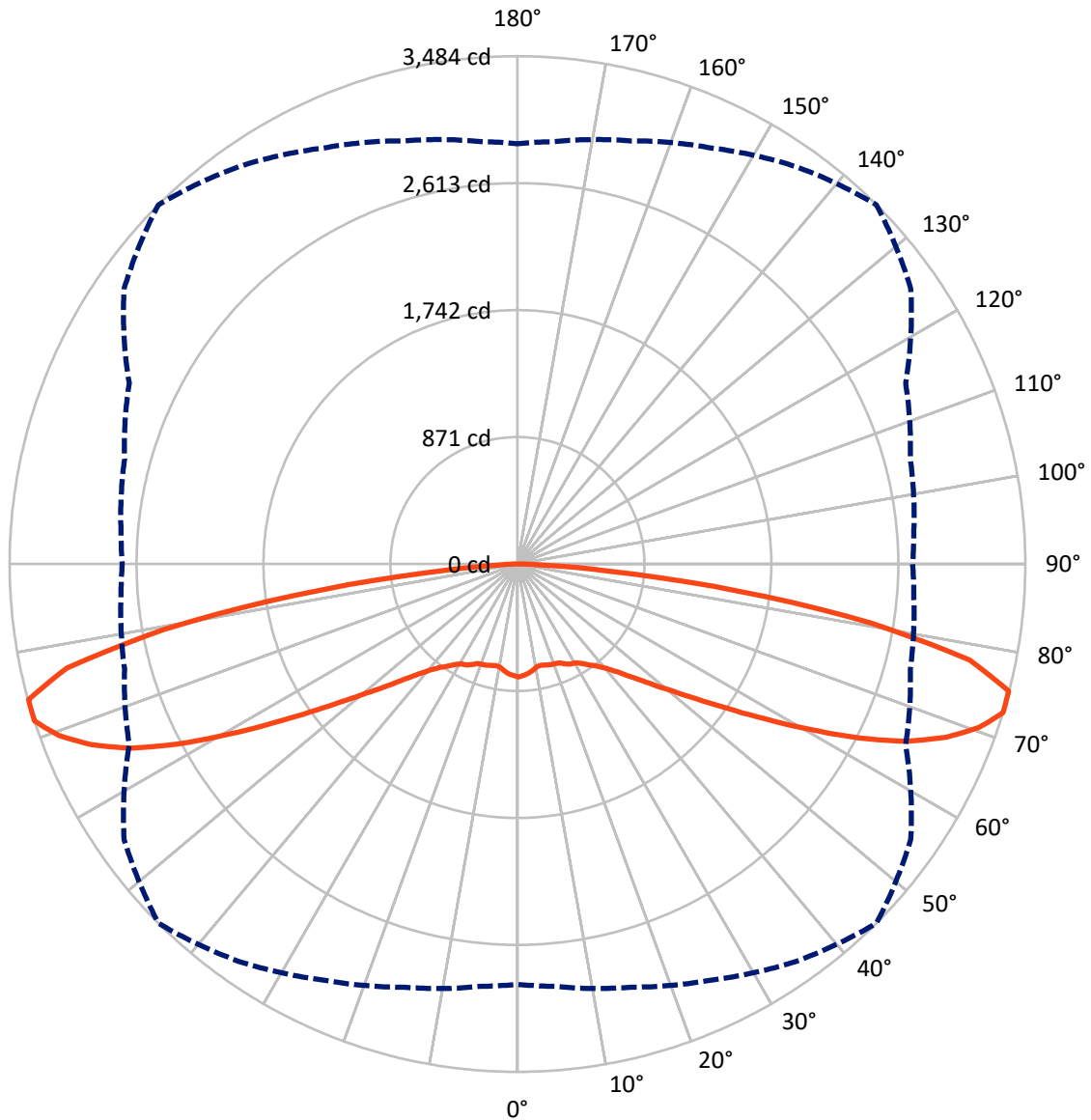


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - Non-Cutoff

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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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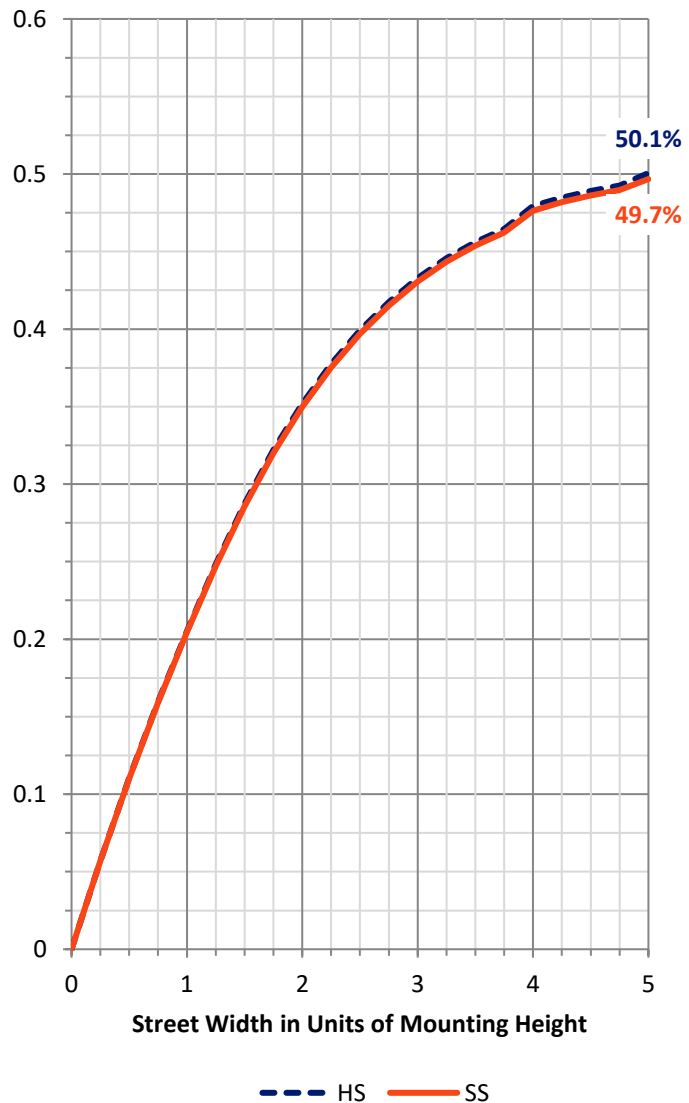
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4686.0	0.0	4686.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4686.0	0.0	4686.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9372.0	0.0	9372.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	0.8
10°-20°	206.4	2.2
20°-30°	350.8	3.7
30°-40°	535.0	5.7
40°-50°	880.9	9.4
50°-60°	1538.4	16.4
60°-70°	2579.1	27.5
70°-80°	2760.2	29.5
80°-90°	450.2	4.8
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°	9372.0	100.0
0°-180°	9372.0	100.0



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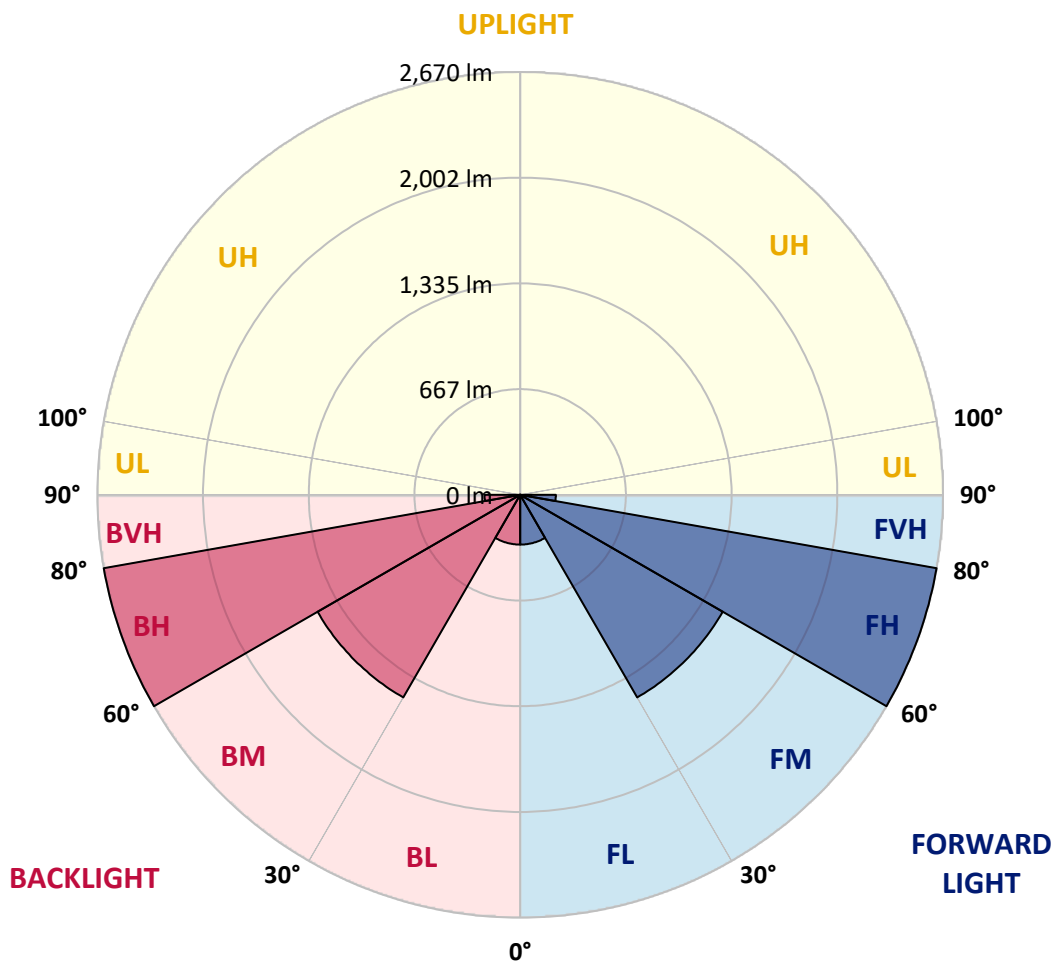
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.2	3.4			
FM (30°-60°)	1477.1	15.8			
FH (60°-80°)	2669.6	28.5			G2/5000
FVH (80°-90°)	225.1	2.4			G3/500
BL (0°-30°)	314.2	3.4	B1/500		
BM (30°-60°)	1477.1	15.8	B2/2500		
BH (60°-80°)	2669.6	28.5	B4/5000		G2/5000
BVH (80°-90°)	225.1	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
2.5°	770.8	770.8	770.8	769.6	767.2	766.0	763.6	764.8	764.8	764.8	764.8
5°	761.2	761.2	760.0	758.8	756.4	755.2	752.8	755.2	755.2	755.2	755.2
7.5°	743.2	744.4	744.4	743.2	739.6	738.4	734.9	736.0	736.0	737.2	736.0
10°	733.7	733.7	732.5	726.5	720.5	718.1	716.9	720.5	724.1	727.7	727.7
12.5°	733.7	733.7	731.3	721.7	713.3	713.3	713.3	718.1	725.3	732.5	733.7
15°	737.2	737.2	732.5	721.7	716.9	718.1	718.1	722.9	731.3	740.8	742.0
17.5°	739.6	739.6	733.7	722.9	722.9	726.5	724.1	727.7	736.0	746.8	748.0
20°	743.2	743.2	734.9	726.5	726.5	730.1	730.1	733.7	740.8	751.6	752.8
22.5°	750.4	749.2	740.8	733.7	733.7	736.0	738.4	743.2	749.2	758.8	761.2
25°	758.8	758.8	751.6	750.4	752.8	758.8	757.6	756.4	758.8	767.2	770.8
27.5°	763.6	763.6	758.8	762.4	772.0	776.7	770.8	766.0	766.0	774.3	775.5
30°	779.1	777.9	773.1	775.5	783.9	786.3	782.7	776.7	780.3	789.9	791.1
32.5°	805.5	805.5	798.3	798.3	804.3	813.8	801.9	798.3	803.1	813.8	815.0
35°	846.2	846.2	836.6	831.8	836.6	849.7	831.8	830.6	839.0	850.9	852.1
37.5°	897.6	897.6	891.6	879.7	880.9	889.2	873.7	872.5	888.0	901.2	901.2
40°	962.2	965.8	959.9	945.5	940.7	941.9	929.9	931.1	949.1	964.6	964.6
42.5°	1042.4	1044.8	1035.3	1024.5	1018.5	1014.9	1002.9	1005.3	1026.9	1047.2	1047.2
45°	1139.4	1140.6	1131.0	1117.8	1110.7	1108.3	1096.3	1102.3	1126.2	1147.8	1146.6
47.5°	1248.3	1249.5	1239.9	1226.7	1222.0	1225.6	1213.6	1213.6	1235.1	1253.1	1250.7
50°	1371.6	1374.0	1363.2	1357.2	1353.6	1363.2	1348.8	1335.7	1350.0	1368.0	1365.6
52.5°	1508.0	1514.0	1506.8	1509.2	1522.4	1534.3	1510.4	1481.7	1488.9	1500.8	1497.2
55°	1673.2	1680.3	1682.7	1691.1	1725.8	1746.2	1706.7	1658.8	1655.2	1656.4	1650.4
57.5°	1858.7	1863.5	1879.0	1898.2	1970.0	2002.3	1940.1	1857.5	1831.1	1815.6	1812.0
60°	2045.4	2053.8	2092.1	2131.5	2241.7	2300.3	2204.6	2065.7	2009.5	1980.7	1974.8
62.5°	2233.3	2250.0	2312.3	2379.3	2539.7	2627.0	2479.8	2278.8	2197.4	2161.5	2151.9
65°	2451.1	2471.4	2546.8	2631.8	2810.1	2933.4	2755.1	2499.0	2411.6	2363.7	2351.8
67.5°	2706.0	2727.6	2788.6	2883.2	3051.9	3172.8	3014.8	2724.0	2610.3	2549.2	2539.7
70°	2915.5	2934.6	3000.4	3096.2	3221.9	3359.5	3208.7	2903.5	2800.6	2757.5	2751.5
72.5°	2883.2	2908.3	3005.2	3148.8	3328.4	3484.0	3293.7	2938.2	2789.8	2730.0	2710.8
75°	2518.1	2545.6	2660.5	2920.3	3248.2	3480.4	3170.4	2707.2	2532.5	2482.2	2472.6
77.5°	1667.2	1693.5	1887.4	2296.7	2836.5	3171.6	2798.2	2268.0	1986.7	1865.9	1858.7
80°	673.8	707.3	892.8	1327.3	2010.7	2465.5	2075.3	1451.8	979.0	789.9	751.6
82.5°	156.8	186.7	271.7	489.5	1029.3	1535.5	1119.0	542.2	314.8	223.8	201.1
85°	65.8	67.0	116.1	159.2	321.9	620.0	366.2	197.5	160.4	117.3	114.9
87.5°	25.1	26.3	56.3	67.0	102.9	117.3	124.5	101.7	94.5	58.6	56.3
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)