

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: P398147

Luminaire Tested: **ARCH-S-PA1-90-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P398147  
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-PA1-90-760-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11918 lumens  
Efficiency: N/A  
Efficacy: 126.8 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

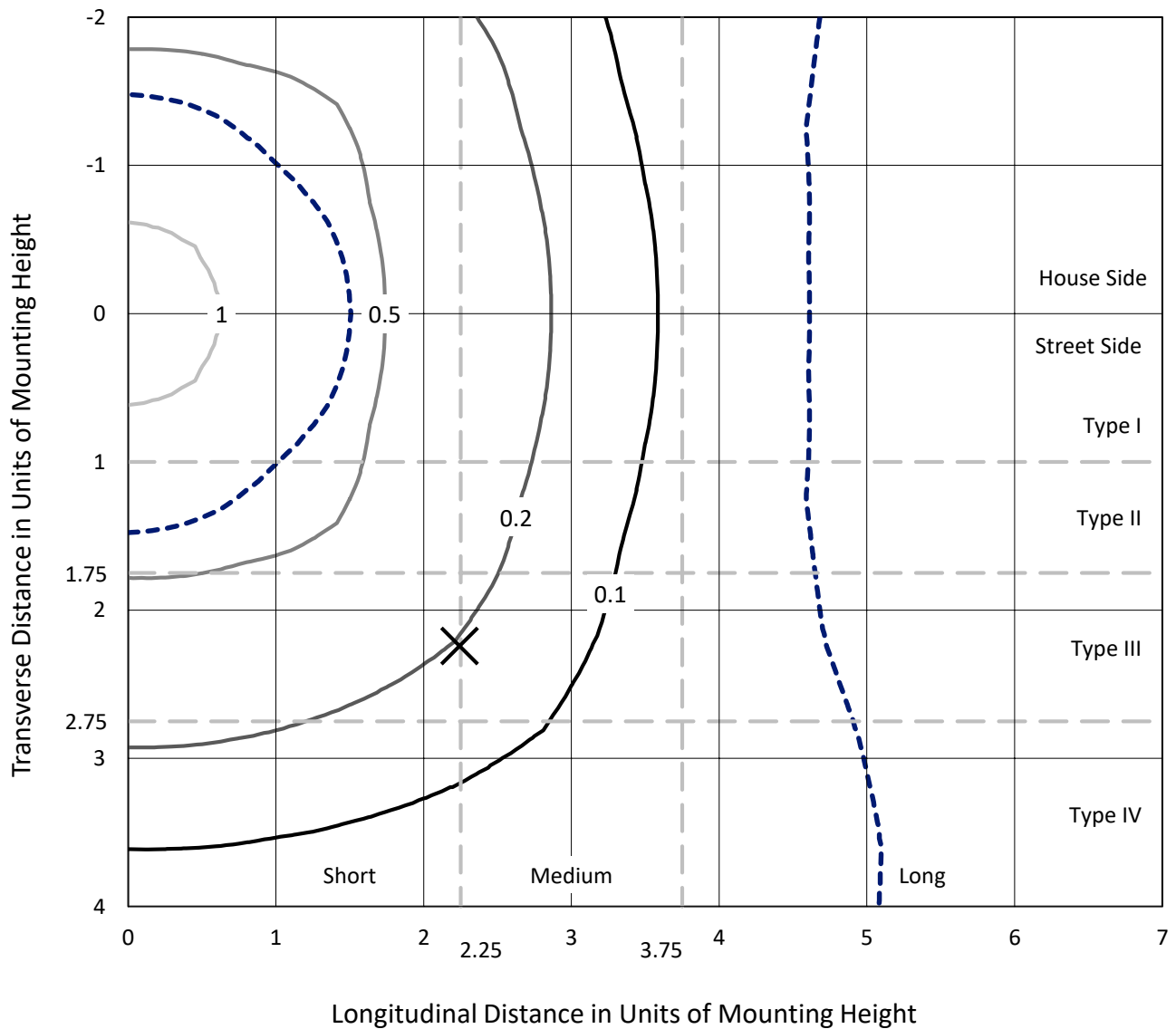
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

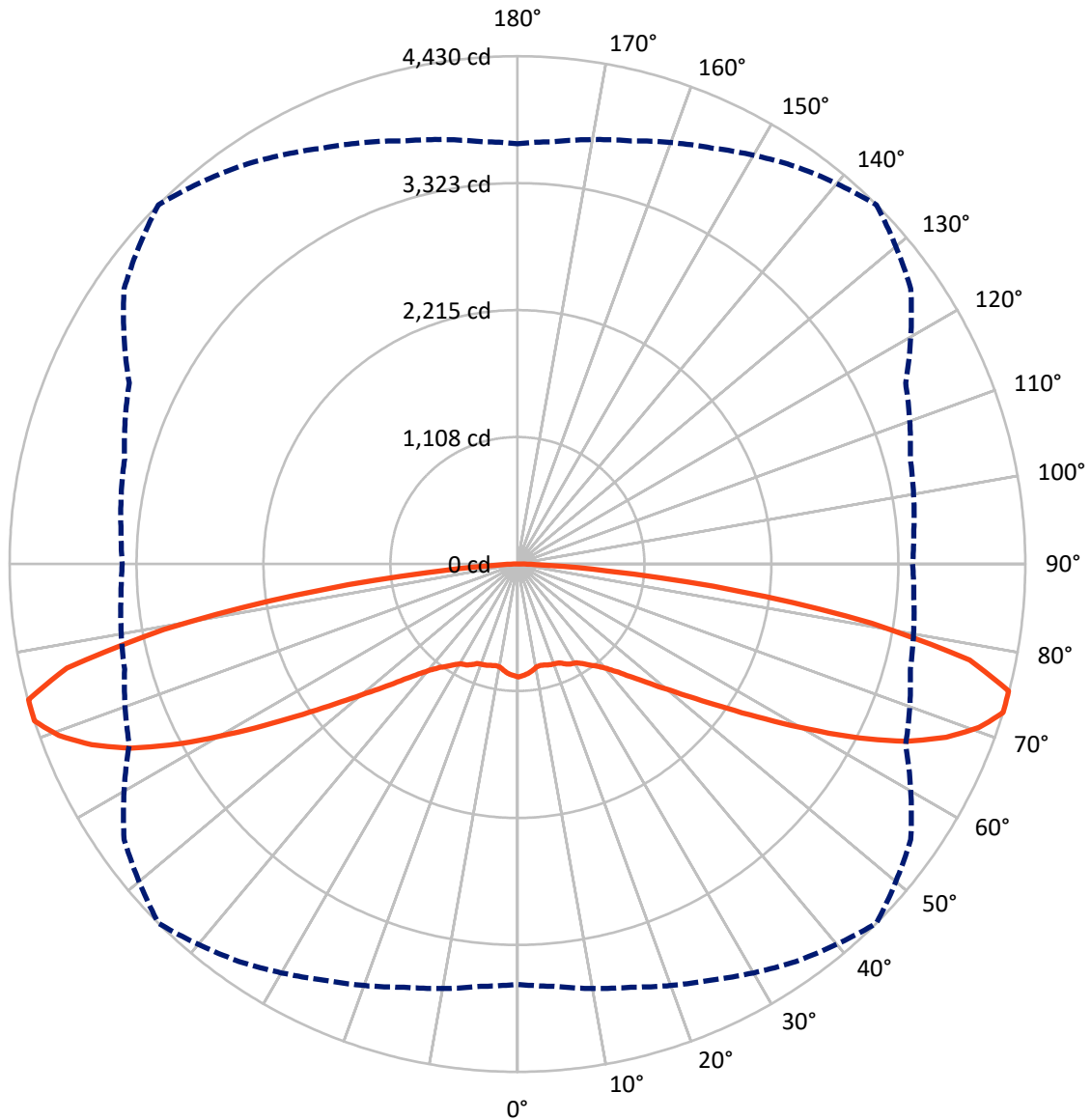


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - Non-Cutoff

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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	5959.0	0.0	5959.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5959.0	0.0	5959.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11918.0	0.0	11918.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	0.8
10°-20°	262.5	2.2
20°-30°	446.0	3.7
30°-40°	680.3	5.7
40°-50°	1120.2	9.4
50°-60°	1956.3	16.4
60°-70°	3279.7	27.5
70°-80°	3510.0	29.5
80°-90°	572.5	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°	11918.0	100.0
0°-180°	11918.0	100.0



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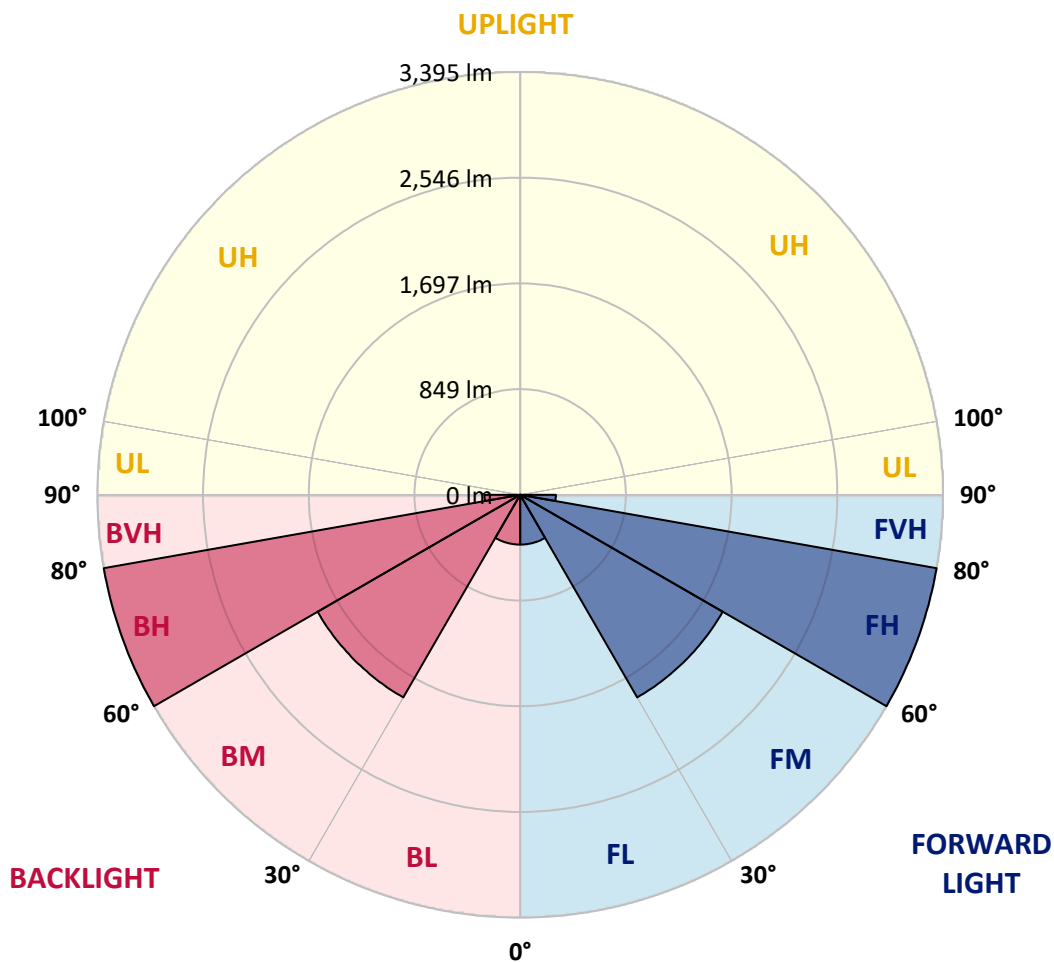
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.5	3.4			
FM (30°-60°)	1878.4	15.8			
FH (60°-80°)	3394.9	28.5			G2/5000
FVH (80°-90°)	286.2	2.4			G3/500
BL (0°-30°)	399.5	3.4	B1/500		
BM (30°-60°)	1878.4	15.8	B2/2500		
BH (60°-80°)	3394.9	28.5	B4/5000		G2/5000
BVH (80°-90°)	286.2	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°	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2
2.5°	980.1	980.1	980.1	978.6	975.6	974.1	971.0	972.5	972.5	972.5	972.5
5°	968.0	968.0	966.4	964.9	961.9	960.4	957.3	960.4	960.4	960.4	960.4
7.5°	945.1	946.7	946.7	945.1	940.6	939.0	934.5	936.0	936.0	937.5	936.0
10°	933.0	933.0	931.4	923.8	916.2	913.2	911.7	916.2	920.8	925.3	925.3
12.5°	933.0	933.0	929.9	917.7	907.1	907.1	907.1	913.2	922.3	931.4	933.0
15°	937.5	937.5	931.4	917.7	911.7	913.2	913.2	919.3	929.9	942.1	943.6
17.5°	940.6	940.6	933.0	919.3	919.3	923.8	920.8	925.3	936.0	949.7	951.2
20°	945.1	945.1	934.5	923.8	923.8	928.4	928.4	933.0	942.1	955.8	957.3
22.5°	954.3	952.7	942.1	933.0	933.0	936.0	939.0	945.1	952.7	964.9	968.0
25°	964.9	964.9	955.8	954.3	957.3	964.9	963.4	961.9	964.9	975.6	980.1
27.5°	971.0	971.0	964.9	969.5	981.7	987.7	980.1	974.1	974.1	984.7	986.2
30°	990.8	989.3	983.2	986.2	996.9	999.9	995.4	987.7	992.3	1004.5	1006.0
32.5°	1024.3	1024.3	1015.1	1015.1	1022.8	1034.9	1019.7	1015.1	1021.2	1034.9	1036.5
35°	1076.0	1076.0	1063.8	1057.8	1063.8	1080.6	1057.8	1056.2	1066.9	1082.1	1083.6
37.5°	1141.5	1141.5	1133.9	1118.6	1120.2	1130.8	1111.0	1109.5	1129.3	1146.0	1146.0
40°	1223.7	1228.2	1220.6	1202.3	1196.3	1197.8	1182.6	1184.1	1206.9	1226.7	1226.7
42.5°	1325.6	1328.7	1316.5	1302.8	1295.2	1290.6	1275.4	1278.4	1305.8	1331.7	1331.7
45°	1448.9	1450.4	1438.2	1421.5	1412.4	1409.3	1394.1	1401.7	1432.2	1459.6	1458.0
47.5°	1587.4	1588.9	1576.7	1560.0	1553.9	1558.5	1543.3	1543.3	1570.7	1593.5	1590.4
50°	1744.2	1747.2	1733.5	1725.9	1721.3	1733.5	1715.2	1698.5	1716.8	1739.6	1736.6
52.5°	1917.7	1925.3	1916.1	1919.2	1935.9	1951.1	1920.7	1884.2	1893.3	1908.5	1904.0
55°	2127.7	2136.8	2139.9	2150.5	2194.7	2220.5	2170.3	2109.4	2104.9	2106.4	2098.8
57.5°	2363.6	2369.7	2389.5	2413.8	2505.1	2546.2	2467.1	2362.1	2328.6	2308.8	2304.2
60°	2601.0	2611.7	2660.4	2710.6	2850.6	2925.2	2803.4	2626.9	2555.4	2518.8	2511.2
62.5°	2840.0	2861.3	2940.4	3025.6	3229.6	3340.7	3153.5	2897.8	2794.3	2748.7	2736.5
65°	3117.0	3142.8	3238.7	3346.8	3573.6	3730.3	3503.5	3177.8	3066.7	3005.9	2990.6
67.5°	3441.1	3468.5	3546.2	3666.4	3881.0	4034.7	3833.8	3464.0	3319.4	3241.8	3229.6
70°	3707.5	3731.8	3815.5	3937.3	4097.1	4272.1	4080.4	3692.3	3561.4	3506.6	3499.0
72.5°	3666.4	3698.4	3821.6	4004.3	4232.6	4430.4	4188.4	3736.4	3547.7	3471.6	3447.2
75°	3202.2	3237.2	3383.3	3713.6	4130.6	4425.8	4031.7	3442.7	3220.5	3156.5	3144.4
77.5°	2120.1	2153.6	2400.1	2920.6	3607.0	4033.2	3558.3	2884.1	2526.4	2372.7	2363.6
80°	856.9	899.5	1135.4	1687.8	2556.9	3135.2	2639.1	1846.1	1245.0	1004.5	955.8
82.5°	199.4	237.4	345.5	622.5	1308.9	1952.7	1423.0	689.4	400.3	284.6	255.7
85°	83.7	85.2	147.6	202.4	409.4	788.4	465.7	251.1	203.9	149.2	146.1
87.5°	32.0	33.5	71.5	85.2	130.9	149.2	158.3	129.4	120.2	74.6	71.5
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)