

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: P398111

Luminaire Tested: **ARCH-S-PA1-90-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P398111  
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-PA1-90-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 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: 9967 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

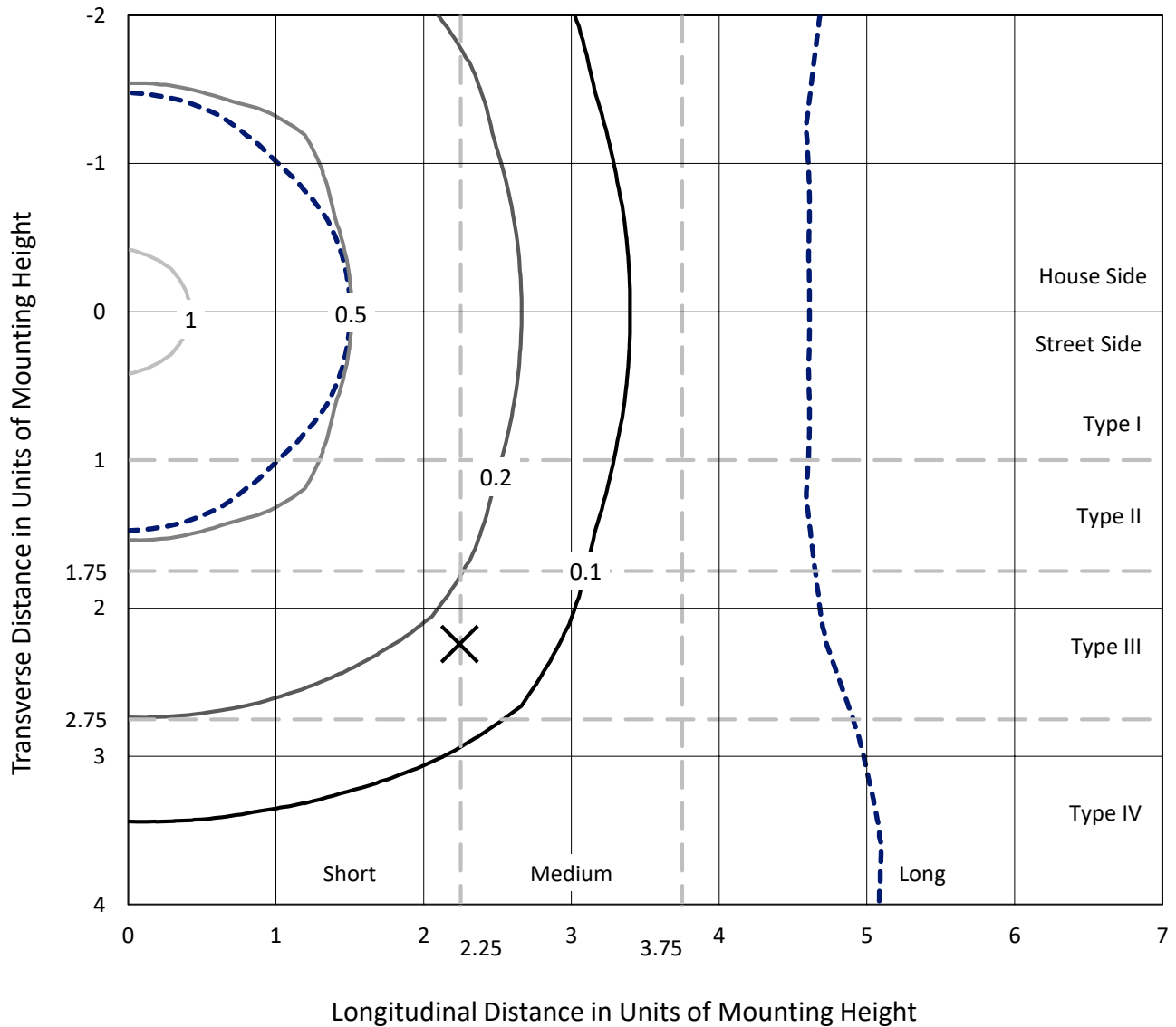
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

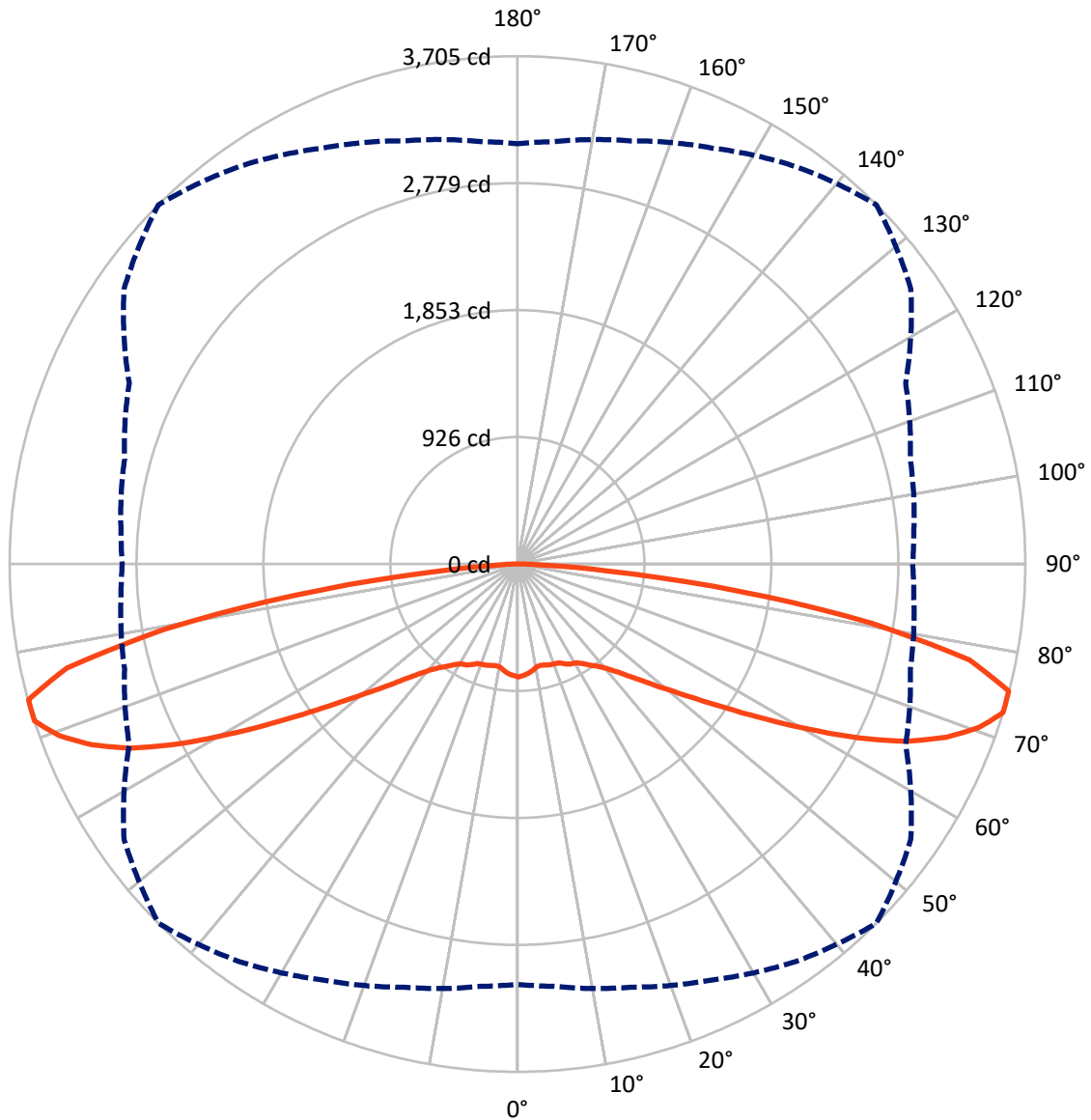


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type V - Short - Non-Cutoff

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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	4983.5	0.0	4983.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4983.5	0.0	4983.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9967.0	0.0	9967.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.6	0.8
10°-20°	219.5	2.2
20°-30°	373.0	3.7
30°-40°	569.0	5.7
40°-50°	936.8	9.4
50°-60°	1636.0	16.4
60°-70°	2742.8	27.5
70°-80°	2935.4	29.5
80°-90°	478.8	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°	9967.0	100.0
0°-180°	9967.0	100.0



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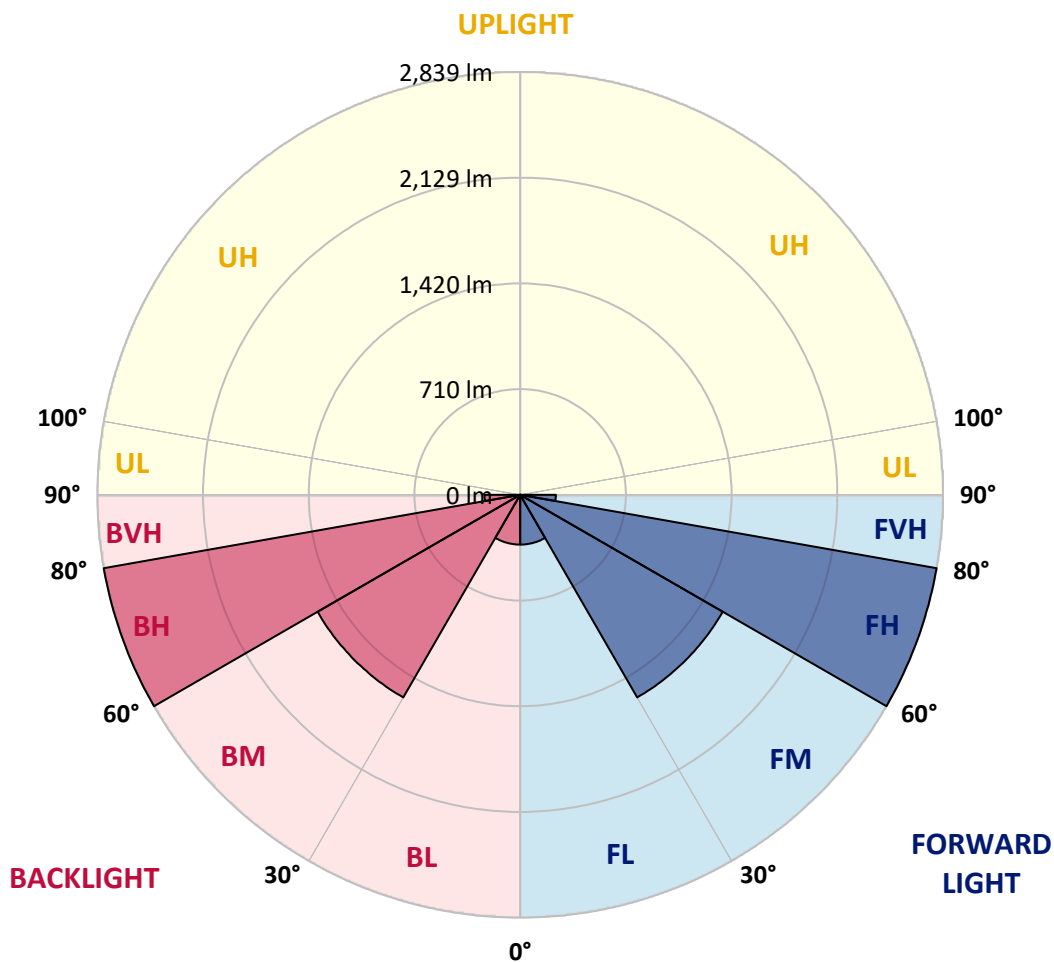
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.1	3.4			
FM (30°-60°)	1570.9	15.8			
FH (60°-80°)	2839.1	28.5			G2/5000
FVH (80°-90°)	239.4	2.4			G3/500
BL (0°-30°)	334.1	3.4	B1/500		
BM (30°-60°)	1570.9	15.8	B2/2500		
BH (60°-80°)	2839.1	28.5	B4/5000		G2/5000
BVH (80°-90°)	239.4	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°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	819.7	819.7	819.7	818.4	815.9	814.6	812.1	813.3	813.3	813.3	813.3
5°	809.5	809.5	808.2	807.0	804.4	803.1	800.6	803.1	803.1	803.1	803.1
7.5°	790.4	791.7	791.7	790.4	786.6	785.3	781.5	782.8	782.8	784.1	782.8
10°	780.2	780.2	779.0	772.6	766.2	763.7	762.4	766.2	770.0	773.9	773.9
12.5°	780.2	780.2	777.7	767.5	758.6	758.6	758.6	763.7	771.3	779.0	780.2
15°	784.1	784.1	779.0	767.5	762.4	763.7	763.7	768.8	777.7	787.9	789.1
17.5°	786.6	786.6	780.2	768.8	768.8	772.6	770.0	773.9	782.8	794.2	795.5
20°	790.4	790.4	781.5	772.6	772.6	776.4	776.4	780.2	787.9	799.3	800.6
22.5°	798.1	796.8	787.9	780.2	780.2	782.8	785.3	790.4	796.8	807.0	809.5
25°	807.0	807.0	799.3	798.1	800.6	807.0	805.7	804.4	807.0	815.9	819.7
27.5°	812.1	812.1	807.0	810.8	821.0	826.1	819.7	814.6	814.6	823.5	824.8
30°	828.6	827.3	822.2	824.8	833.7	836.2	832.4	826.1	829.9	840.1	841.3
32.5°	856.6	856.6	849.0	849.0	855.3	865.5	852.8	849.0	854.1	865.5	866.8
35°	899.9	899.9	889.7	884.6	889.7	903.7	884.6	883.3	892.2	905.0	906.2
37.5°	954.6	954.6	948.2	935.5	936.8	945.7	929.2	927.9	944.4	958.4	958.4
40°	1023.3	1027.2	1020.8	1005.5	1000.4	1001.7	989.0	990.2	1009.3	1025.9	1025.9
42.5°	1108.6	1111.2	1101.0	1089.5	1083.2	1079.3	1066.6	1069.2	1092.1	1113.7	1113.7
45°	1211.7	1213.0	1202.8	1188.8	1181.2	1178.6	1165.9	1172.3	1197.7	1220.6	1219.4
47.5°	1327.5	1328.8	1318.6	1304.6	1299.5	1303.4	1290.6	1290.6	1313.5	1332.6	1330.1
50°	1458.6	1461.2	1449.7	1443.4	1439.5	1449.7	1434.5	1420.5	1435.7	1454.8	1452.3
52.5°	1603.7	1610.1	1602.5	1605.0	1619.0	1631.7	1606.3	1575.7	1583.4	1596.1	1592.3
55°	1779.4	1787.0	1789.6	1798.5	1835.4	1857.0	1815.0	1764.1	1760.3	1761.6	1755.2
57.5°	1976.7	1981.8	1998.3	2018.7	2095.0	2129.4	2063.2	1975.4	1947.4	1930.9	1927.0
60°	2175.2	2184.1	2224.9	2266.9	2384.0	2446.3	2344.5	2196.9	2137.0	2106.5	2100.1
62.5°	2375.1	2392.9	2459.1	2530.3	2700.9	2793.8	2637.3	2423.4	2336.9	2298.7	2288.5
65°	2606.7	2628.4	2708.5	2798.9	2988.6	3119.7	2930.0	2657.6	2564.7	2513.8	2501.1
67.5°	2877.8	2900.7	2965.6	3066.2	3245.7	3374.2	3206.2	2896.9	2776.0	2711.1	2700.9
70°	3100.6	3120.9	3190.9	3292.8	3426.4	3572.8	3412.4	3087.8	2978.4	2932.6	2926.2
72.5°	3066.2	3092.9	3196.0	3348.8	3539.7	3705.1	3502.8	3124.7	2966.9	2903.3	2882.9
75°	2678.0	2707.3	2829.5	3105.7	3454.4	3701.3	3371.7	2879.1	2693.3	2639.8	2629.6
77.5°	1773.0	1801.0	2007.2	2442.5	3016.6	3372.9	2975.8	2412.0	2112.9	1984.3	1976.7
80°	716.6	752.2	949.5	1411.5	2138.3	2622.0	2207.1	1543.9	1041.2	840.1	799.3
82.5°	166.7	198.6	288.9	520.6	1094.6	1633.0	1190.1	576.6	334.7	238.0	213.8
85°	70.0	71.3	123.5	169.3	342.4	659.3	389.5	210.0	170.6	124.7	122.2
87.5°	26.7	28.0	59.8	71.3	109.5	124.7	132.4	108.2	100.6	62.4	59.8
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)