

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: P397904

Luminaire Tested: **ARCH-S-PA1-60-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397904  
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-PA1-60-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8406 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

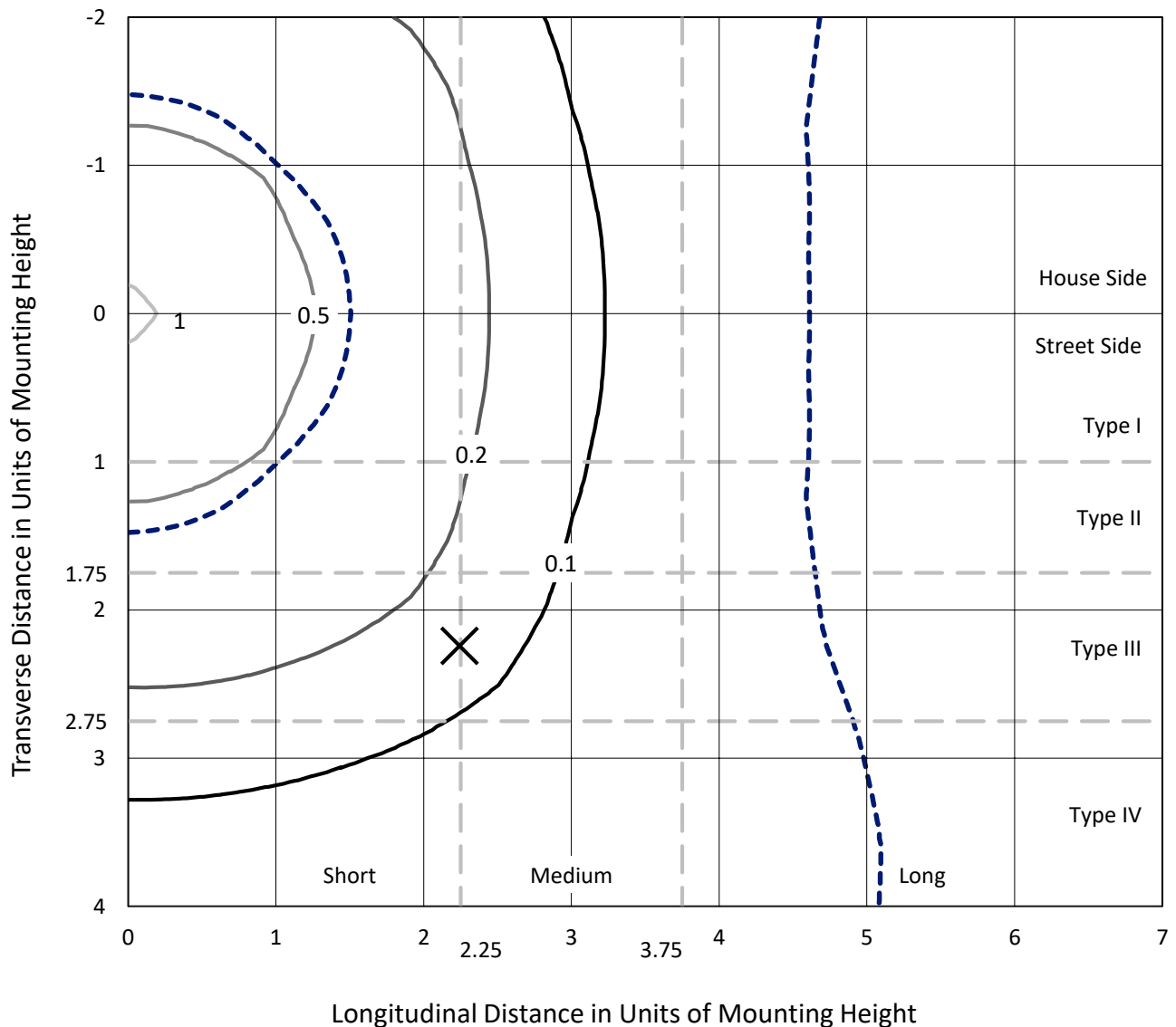
Input Watts (W): 64  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

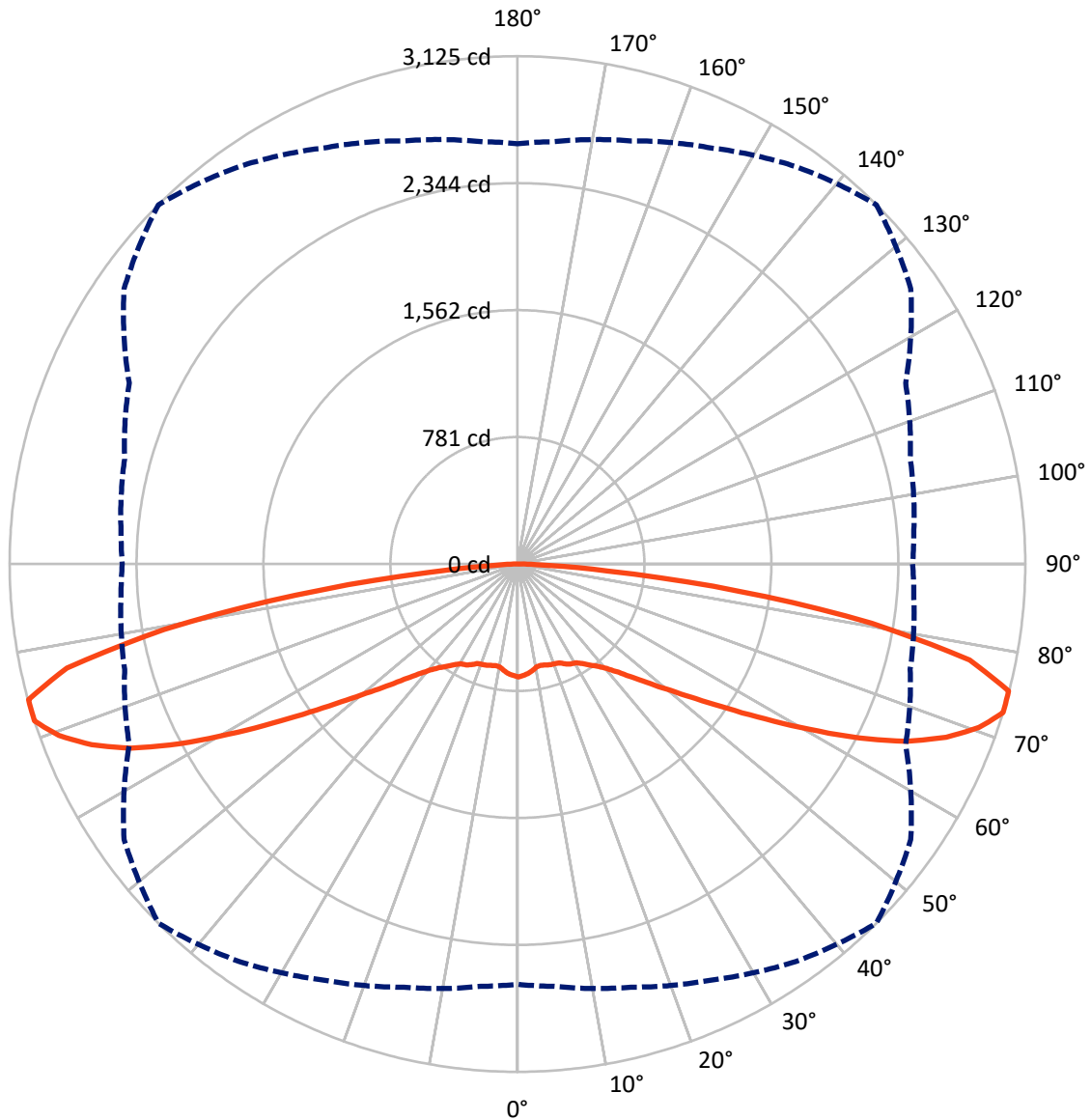


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P397904

CATALOG NUMBER: ARCH-S-PA1-60-730-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: ARCH-S-PA1-60-730-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4203.0	0.0	4203.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4203.0	0.0	4203.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8406.0	0.0	8406.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	0.8
10°-20°	185.2	2.2
20°-30°	314.6	3.7
30°-40°	479.9	5.7
40°-50°	790.1	9.4
50°-60°	1379.8	16.4
60°-70°	2313.3	27.5
70°-80°	2475.7	29.5
80°-90°	403.8	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°	8406.0	100.0
0°-180°	8406.0	100.0



REPORT NUMBER: P397904

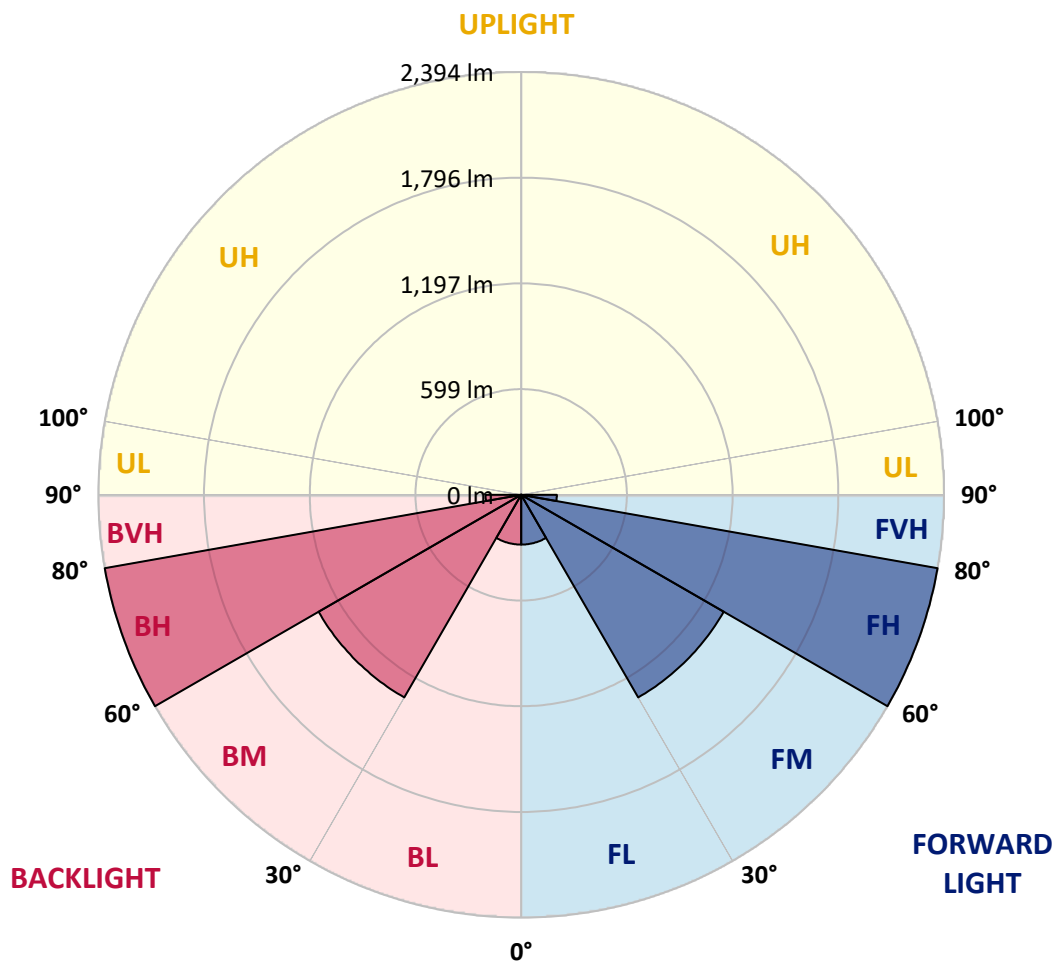
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.8	3.4			
FM	(30°-60°)	1324.9	15.8			
FH	(60°-80°)	2394.5	28.5			G2/5000
FVH	(80°-90°)	201.9	2.4			G2/225
BL	(0°-30°)	281.8	3.4	B1/500		
BM	(30°-60°)	1324.9	15.8	B2/2500		
BH	(60°-80°)	2394.5	28.5	B3/2500		G2/5000
BVH	(80°-90°)	201.9	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6
2.5°	691.3	691.3	691.3	690.2	688.1	687.0	684.9	685.9	685.9	685.9	685.9
5°	682.7	682.7	681.7	680.6	678.4	677.4	675.2	677.4	677.4	677.4	677.4
7.5°	666.6	667.7	667.7	666.6	663.4	662.3	659.1	660.2	660.2	661.3	660.2
10°	658.0	658.0	657.0	651.6	646.2	644.1	643.0	646.2	649.4	652.7	652.7
12.5°	658.0	658.0	655.9	647.3	639.8	639.8	639.8	644.1	650.5	657.0	658.0
15°	661.3	661.3	657.0	647.3	643.0	644.1	644.1	648.4	655.9	664.5	665.5
17.5°	663.4	663.4	658.0	648.4	648.4	651.6	649.4	652.7	660.2	669.8	670.9
20°	666.6	666.6	659.1	651.6	651.6	654.8	654.8	658.0	664.5	674.1	675.2
22.5°	673.1	672.0	664.5	658.0	658.0	660.2	662.3	666.6	672.0	680.6	682.7
25°	680.6	680.6	674.1	673.1	675.2	680.6	679.5	678.4	680.6	688.1	691.3
27.5°	684.9	684.9	680.6	683.8	692.4	696.7	691.3	687.0	687.0	694.5	695.6
30°	698.8	697.8	693.5	695.6	703.1	705.3	702.0	696.7	699.9	708.5	709.6
32.5°	722.4	722.4	716.0	716.0	721.4	730.0	719.2	716.0	720.3	730.0	731.0
35°	758.9	758.9	750.4	746.1	750.4	762.2	746.1	745.0	752.5	763.2	764.3
37.5°	805.1	805.1	799.7	789.0	790.1	797.6	783.6	782.6	796.5	808.3	808.3
40°	863.1	866.3	860.9	848.0	843.7	844.8	834.1	835.2	851.3	865.2	865.2
42.5°	935.0	937.1	928.5	918.9	913.5	910.3	899.6	901.7	921.0	939.3	939.3
45°	1021.9	1023.0	1014.4	1002.6	996.2	994.0	983.3	988.7	1010.1	1029.5	1028.4
47.5°	1119.6	1120.7	1112.1	1100.3	1096.0	1099.2	1088.5	1088.5	1107.8	1123.9	1121.8
50°	1230.2	1232.3	1222.7	1217.3	1214.1	1222.7	1209.8	1198.0	1210.9	1227.0	1224.8
52.5°	1352.6	1357.9	1351.5	1353.6	1365.4	1376.2	1354.7	1329.0	1335.4	1346.1	1342.9
55°	1500.7	1507.1	1509.3	1516.8	1547.9	1566.2	1530.8	1487.8	1484.6	1485.7	1480.3
57.5°	1667.1	1671.4	1685.3	1702.5	1766.9	1795.9	1740.1	1666.0	1642.4	1628.4	1625.2
60°	1834.6	1842.1	1876.4	1911.8	2010.6	2063.2	1977.3	1852.8	1802.3	1776.6	1771.2
62.5°	2003.1	2018.1	2073.9	2134.1	2277.9	2356.3	2224.2	2043.9	1970.9	1938.7	1930.1
65°	2198.5	2216.7	2284.3	2360.6	2520.5	2631.1	2471.1	2241.4	2163.0	2120.1	2109.4
67.5°	2427.1	2446.4	2501.2	2586.0	2737.3	2845.8	2704.1	2443.2	2341.2	2286.5	2277.9
70°	2615.0	2632.1	2691.2	2777.1	2889.8	3013.2	2878.0	2604.2	2511.9	2473.3	2467.9
72.5°	2586.0	2608.5	2695.5	2824.3	2985.3	3124.9	2954.2	2635.4	2502.2	2448.6	2431.4
75°	2258.6	2283.3	2386.3	2619.3	2913.4	3121.6	2843.6	2428.2	2271.5	2226.4	2217.8
77.5°	1495.3	1519.0	1692.9	2060.0	2544.1	2844.7	2509.8	2034.2	1782.0	1673.5	1667.1
80°	604.4	634.4	800.8	1190.5	1803.4	2211.3	1861.4	1302.1	878.1	708.5	674.1
82.5°	140.6	167.5	243.7	439.0	923.2	1377.3	1003.7	486.3	282.3	200.7	180.3
85°	59.0	60.1	104.1	142.8	288.8	556.1	328.5	177.1	143.8	105.2	103.1
87.5°	22.5	23.6	50.5	60.1	92.3	105.2	111.6	91.2	84.8	52.6	50.5
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)