

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: P397670

Luminaire Tested: **ARCH-S-PA1-30-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397670  
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-PA1-30-722-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3552 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G1

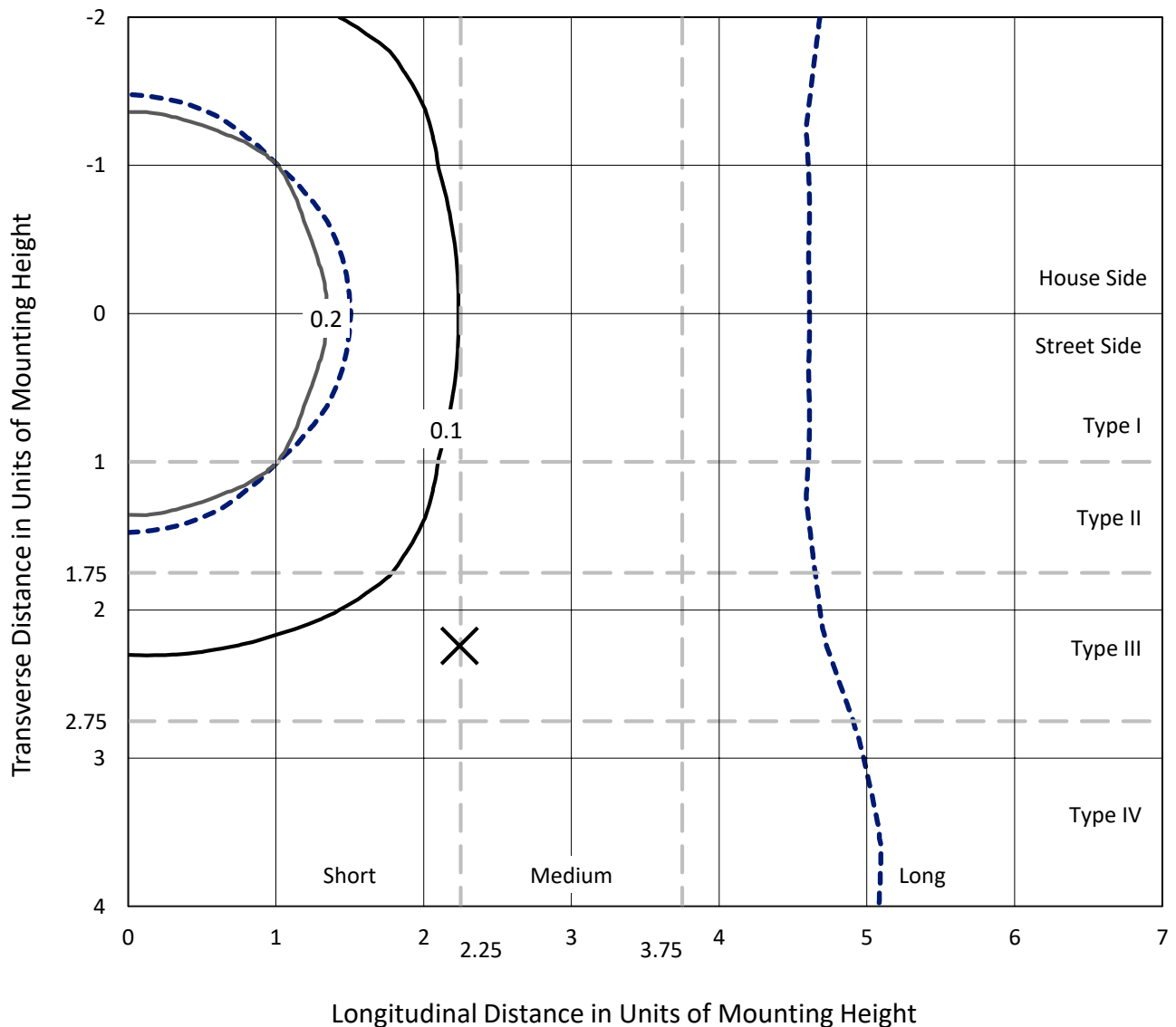
Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

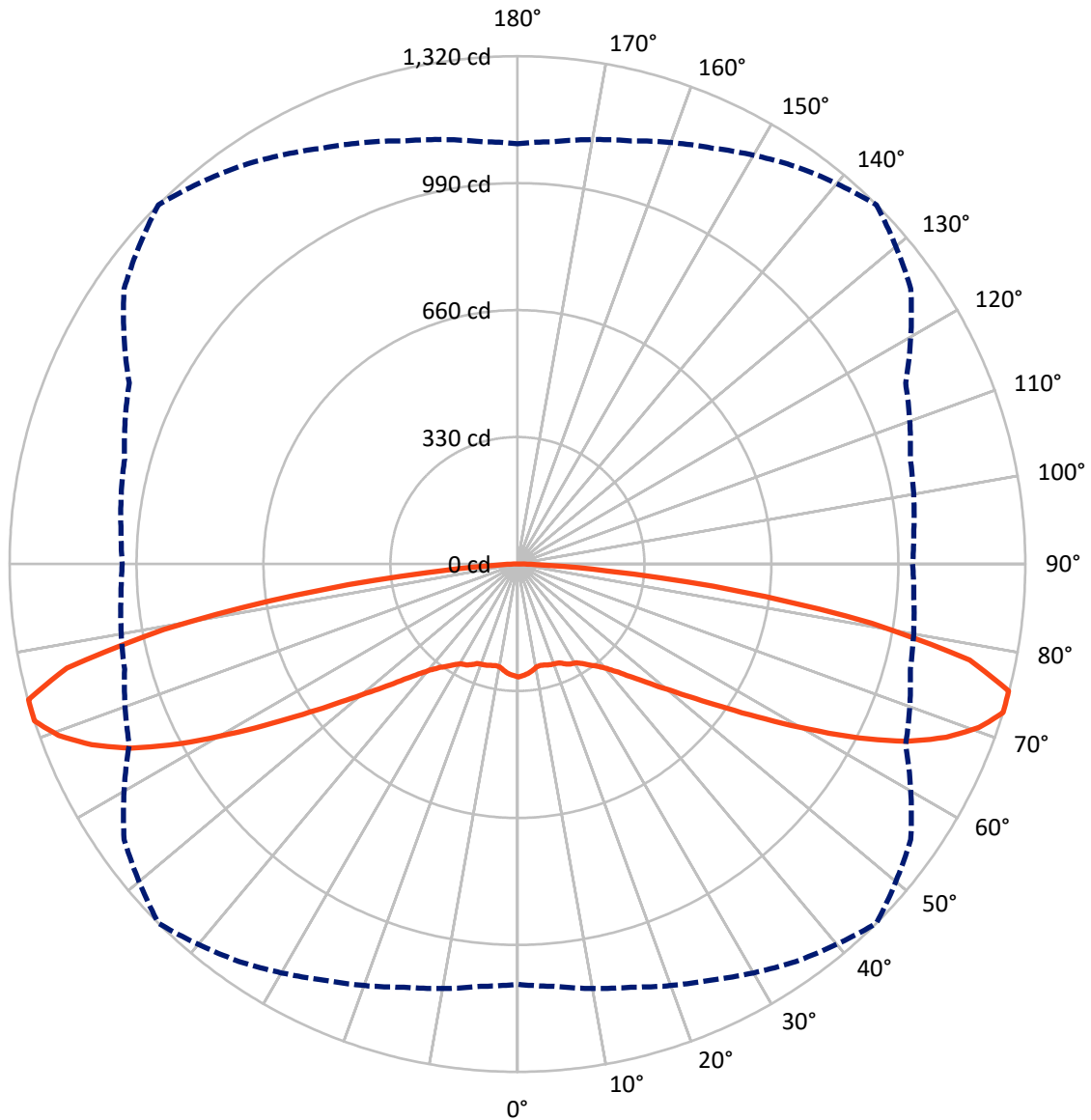


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Non-Cutoff

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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	1776.0	0.0	1776.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1776.0	0.0	1776.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3552.0	0.0	3552.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.0	0.8
10°-20°	78.2	2.2
20°-30°	132.9	3.7
30°-40°	202.8	5.7
40°-50°	333.9	9.4
50°-60°	583.0	16.4
60°-70°	977.5	27.5
70°-80°	1046.1	29.5
80°-90°	170.6	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°	3552.0	100.0
0°-180°	3552.0	100.0



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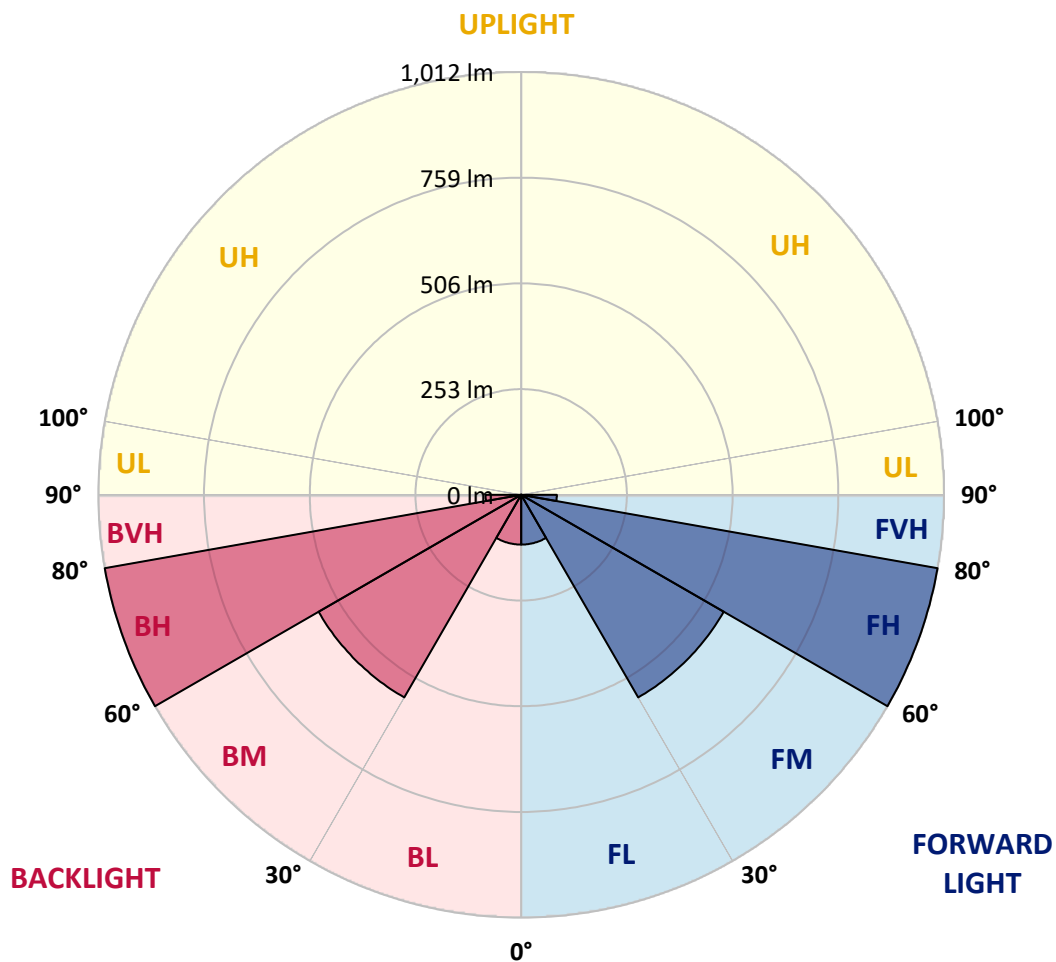
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.1	3.4			
FM	(30°-60°)	559.8	15.8			
FH	(60°-80°)	1011.8	28.5			G1/1800
FVH	(80°-90°)	85.3	2.4			G1/100
BL	(0°-30°)	119.1	3.4	B1/500		
BM	(30°-60°)	559.8	15.8	B1/1000		
BH	(60°-80°)	1011.8	28.5	B3/2500		G1/1800
BVH	(80°-90°)	85.3	2.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	292.1	292.1	292.1	291.7	290.8	290.3	289.4	289.8	289.8	289.8	289.8
5°	288.5	288.5	288.0	287.6	286.7	286.2	285.3	286.2	286.2	286.2	286.2
7.5°	281.7	282.1	282.1	281.7	280.3	279.9	278.5	279.0	279.0	279.4	279.0
10°	278.1	278.1	277.6	275.3	273.1	272.2	271.7	273.1	274.4	275.8	275.8
12.5°	278.1	278.1	277.1	273.5	270.3	270.3	270.3	272.2	274.9	277.6	278.1
15°	279.4	279.4	277.6	273.5	271.7	272.2	272.2	274.0	277.1	280.8	281.2
17.5°	280.3	280.3	278.1	274.0	274.0	275.3	274.4	275.8	279.0	283.0	283.5
20°	281.7	281.7	278.5	275.3	275.3	276.7	276.7	278.1	280.8	284.9	285.3
22.5°	284.4	284.0	280.8	278.1	278.1	279.0	279.9	281.7	284.0	287.6	288.5
25°	287.6	287.6	284.9	284.4	285.3	287.6	287.1	286.7	287.6	290.8	292.1
27.5°	289.4	289.4	287.6	288.9	292.6	294.4	292.1	290.3	290.3	293.5	293.9
30°	295.3	294.8	293.0	293.9	297.1	298.0	296.7	294.4	295.7	299.4	299.8
32.5°	305.3	305.3	302.6	302.6	304.8	308.4	303.9	302.6	304.4	308.4	308.9
35°	320.7	320.7	317.1	315.3	317.1	322.1	315.3	314.8	318.0	322.5	323.0
37.5°	340.2	340.2	337.9	333.4	333.8	337.0	331.1	330.7	336.6	341.6	341.6
40°	364.7	366.1	363.8	358.3	356.5	357.0	352.4	352.9	359.7	365.6	365.6
42.5°	395.1	396.0	392.4	388.3	386.0	384.7	380.1	381.0	389.2	396.9	396.9
45°	431.8	432.3	428.7	423.7	420.9	420.0	415.5	417.8	426.8	435.0	434.5
47.5°	473.1	473.6	469.9	464.9	463.1	464.5	459.9	459.9	468.1	474.9	474.0
50°	519.8	520.7	516.6	514.4	513.0	516.6	511.2	506.2	511.7	518.5	517.6
52.5°	571.5	573.8	571.1	572.0	577.0	581.5	572.4	561.6	564.3	568.8	567.5
55°	634.1	636.9	637.8	640.9	654.1	661.8	646.8	628.7	627.3	627.8	625.5
57.5°	704.4	706.3	712.1	719.4	746.6	758.9	735.3	704.0	694.0	688.1	686.7
60°	775.2	778.4	792.9	807.9	849.6	871.8	835.5	782.9	761.6	750.7	748.4
62.5°	846.4	852.8	876.4	901.8	962.5	995.6	939.9	863.7	832.8	819.2	815.6
65°	929.0	936.7	965.3	997.5	1065.0	1111.8	1044.2	947.1	914.0	895.9	891.3
67.5°	1025.6	1033.8	1056.9	1092.7	1156.7	1202.5	1142.6	1032.4	989.3	966.2	962.5
70°	1105.0	1112.2	1137.2	1173.5	1221.1	1273.3	1216.1	1100.4	1061.4	1045.1	1042.8
72.5°	1092.7	1102.2	1139.0	1193.4	1261.5	1320.4	1248.3	1113.6	1057.3	1034.7	1027.4
75°	954.4	964.8	1008.3	1106.8	1231.1	1319.1	1201.6	1026.0	959.8	940.8	937.1
77.5°	631.9	641.8	715.3	870.5	1075.0	1202.0	1060.5	859.6	753.0	707.2	704.4
80°	255.4	268.1	338.4	503.0	762.0	934.4	786.5	550.2	371.0	299.4	284.9
82.5°	59.4	70.8	103.0	185.5	390.1	582.0	424.1	205.5	119.3	84.8	76.2
85°	24.9	25.4	44.0	60.3	122.0	235.0	138.8	74.8	60.8	44.5	43.5
87.5°	9.5	10.0	21.3	25.4	39.0	44.5	47.2	38.6	35.8	22.2	21.3
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)