

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: P397544

Luminaire Tested: **ARCH-S-PA1-100-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397544  
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-PA1-100-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10967 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

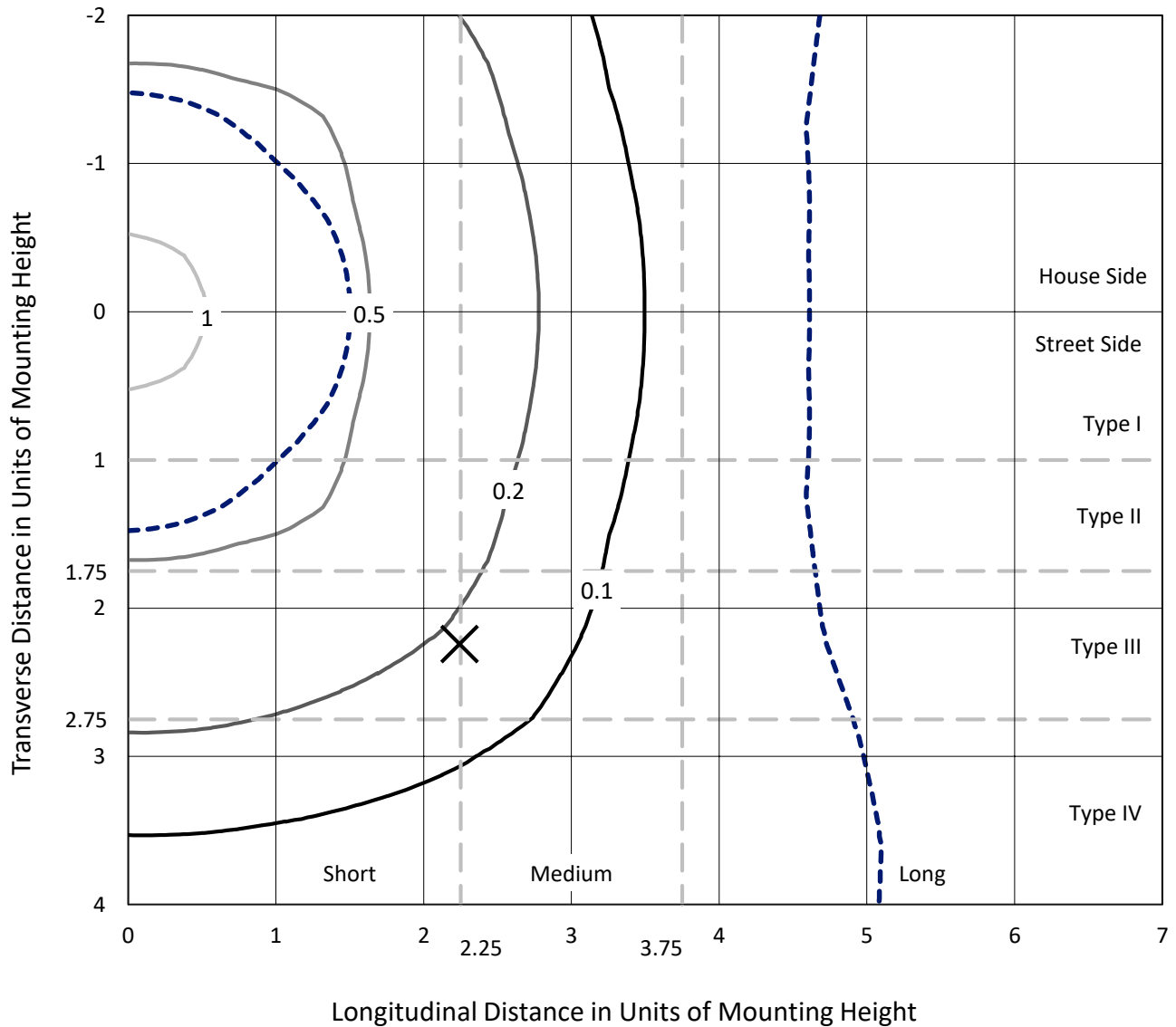
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

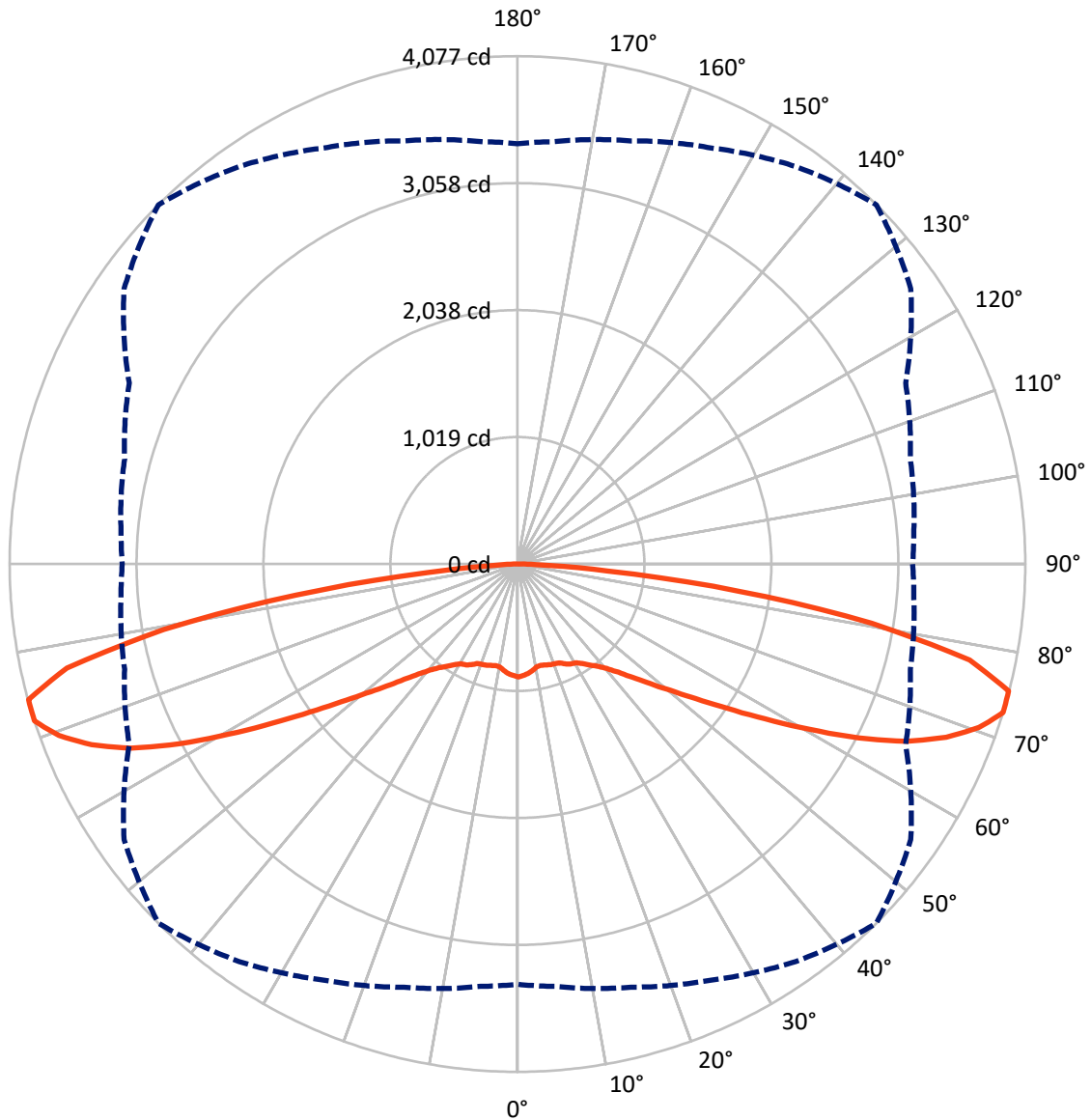


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - Non-Cutoff

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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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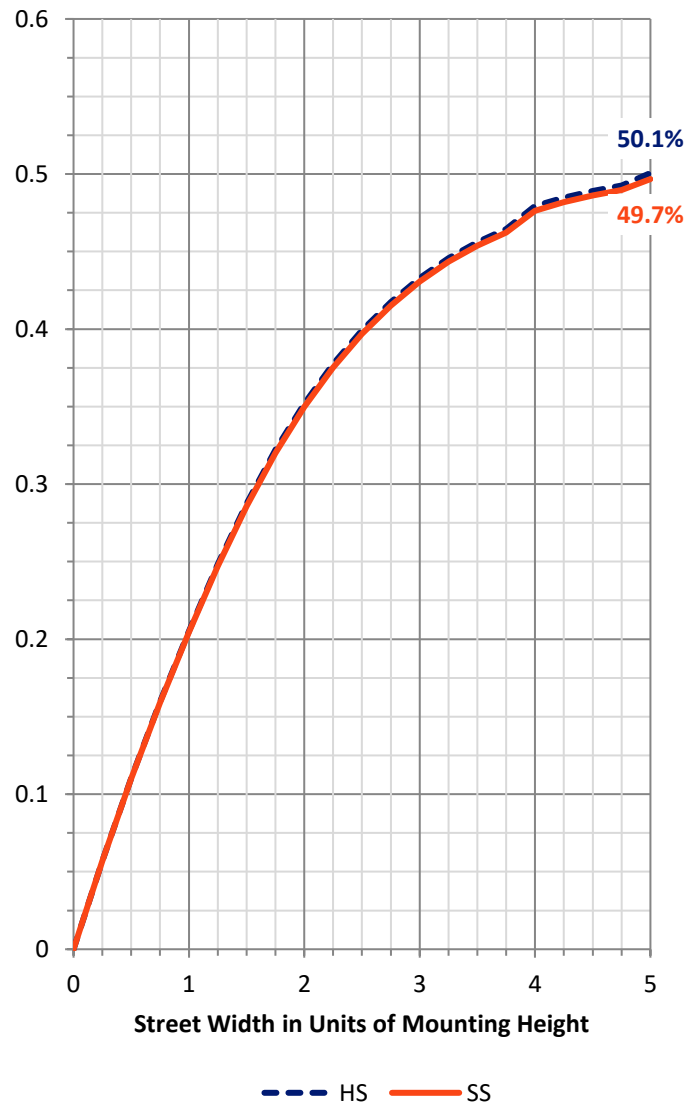
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5483.5	0.0	5483.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5483.5	0.0	5483.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10967.0	0.0	10967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	0.8
10°-20°	241.6	2.2
20°-30°	410.4	3.7
30°-40°	626.0	5.7
40°-50°	1030.8	9.4
50°-60°	1800.2	16.4
60°-70°	3018.0	27.5
70°-80°	3229.9	29.5
80°-90°	526.8	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°	10967.0	100.0
0°-180°	10967.0	100.0

**Coefficient of Utilization**



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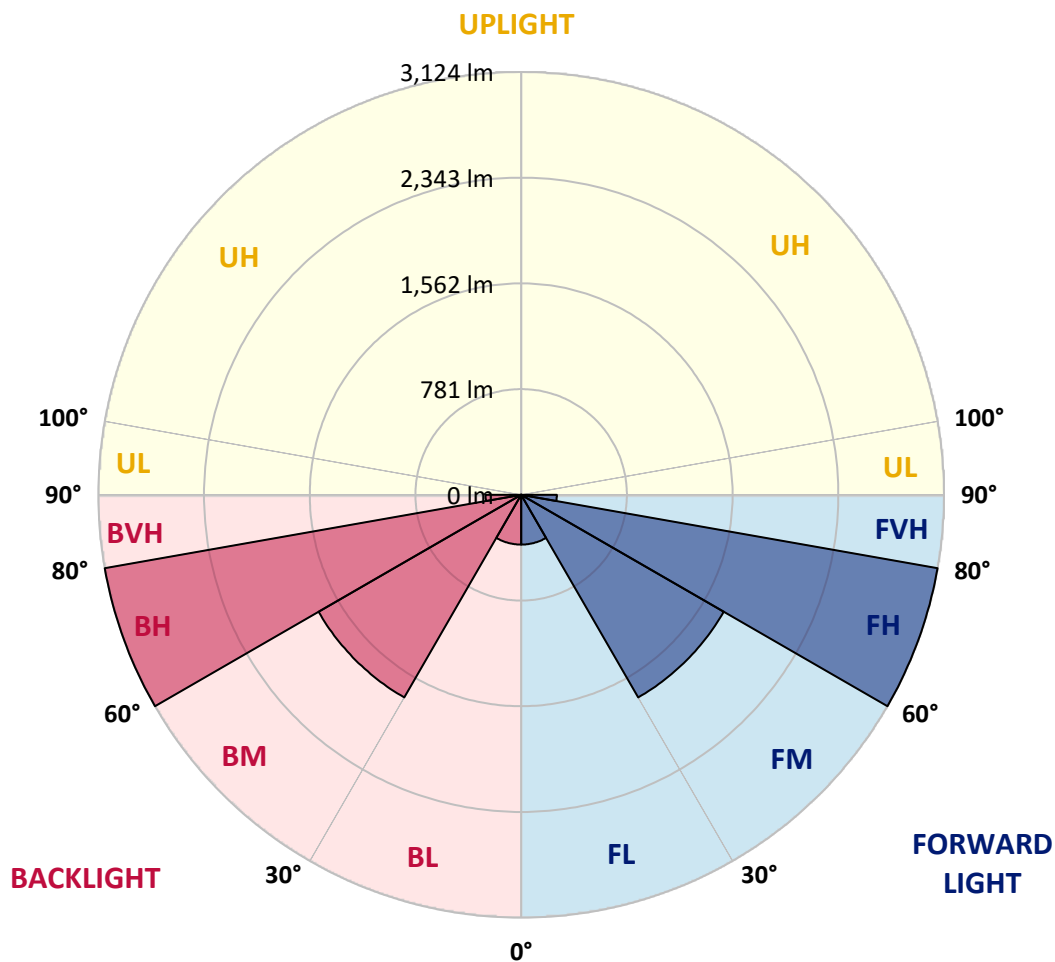
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.6	3.4			
FM	(30°-60°)	1728.5	15.8			
FH	(60°-80°)	3124.0	28.5			G2/5000
FVH	(80°-90°)	263.4	2.4			G3/500
BL	(0°-30°)	367.6	3.4	B1/500		
BM	(30°-60°)	1728.5	15.8	B2/2500		
BH	(60°-80°)	3124.0	28.5	B4/5000		G2/5000
BVH	(80°-90°)	263.4	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°	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
2.5°	901.9	901.9	901.9	900.5	897.7	896.3	893.5	894.9	894.9	894.9	894.9
5°	890.7	890.7	889.3	887.9	885.1	883.7	880.9	883.7	883.7	883.7	883.7
7.5°	869.7	871.1	871.1	869.7	865.5	864.1	859.9	861.3	861.3	862.7	861.3
10°	858.5	858.5	857.1	850.1	843.1	840.3	838.9	843.1	847.3	851.5	851.5
12.5°	858.5	858.5	855.7	844.5	834.7	834.7	834.7	840.3	848.7	857.1	858.5
15°	862.7	862.7	857.1	844.5	838.9	840.3	840.3	845.9	855.7	866.9	868.3
17.5°	865.5	865.5	858.5	845.9	845.9	850.1	847.3	851.5	861.3	873.9	875.3
20°	869.7	869.7	859.9	850.1	850.1	854.3	854.3	858.5	866.9	879.5	880.9
22.5°	878.1	876.7	866.9	858.5	858.5	861.3	864.1	869.7	876.7	887.9	890.7
25°	887.9	887.9	879.5	878.1	880.9	887.9	886.5	885.1	887.9	897.7	901.9
27.5°	893.5	893.5	887.9	892.1	903.3	908.9	901.9	896.3	896.3	906.1	907.5
30°	911.7	910.3	904.7	907.5	917.3	920.1	915.9	908.9	913.1	924.3	925.7
32.5°	942.5	942.5	934.1	934.1	941.1	952.3	938.3	934.1	939.7	952.3	953.7
35°	990.2	990.2	979.0	973.4	979.0	994.4	973.4	972.0	981.8	995.8	997.2
37.5°	1050.4	1050.4	1043.4	1029.4	1030.8	1040.6	1022.4	1021.0	1039.2	1054.6	1054.6
40°	1126.0	1130.2	1123.2	1106.4	1100.8	1102.2	1088.2	1089.6	1110.6	1128.8	1128.8
42.5°	1219.8	1222.6	1211.4	1198.8	1191.8	1187.6	1173.6	1176.4	1201.6	1225.4	1225.4
45°	1333.3	1334.7	1323.5	1308.1	1299.7	1296.9	1282.9	1289.9	1317.9	1343.1	1341.7
47.5°	1460.7	1462.1	1450.9	1435.5	1429.9	1434.1	1420.1	1420.1	1445.3	1466.3	1463.5
50°	1605.0	1607.8	1595.2	1588.2	1584.0	1595.2	1578.4	1563.0	1579.8	1600.8	1598.0
52.5°	1764.6	1771.6	1763.2	1766.0	1781.5	1795.5	1767.4	1733.8	1742.2	1756.2	1752.0
55°	1957.9	1966.3	1969.1	1978.9	2019.5	2043.3	1997.1	1941.1	1936.9	1938.3	1931.3
57.5°	2175.0	2180.6	2198.8	2221.2	2305.2	2343.1	2270.2	2173.6	2142.8	2124.6	2120.4
60°	2393.5	2403.3	2448.1	2494.3	2623.2	2691.8	2579.7	2417.3	2351.5	2317.8	2310.8
62.5°	2613.4	2633.0	2705.8	2784.2	2971.9	3074.1	2901.9	2666.6	2571.3	2529.3	2518.1
65°	2868.2	2892.1	2980.3	3079.7	3288.4	3432.7	3224.0	2924.3	2822.0	2766.0	2752.0
67.5°	3166.6	3191.8	3263.2	3373.8	3571.3	3712.8	3527.9	3187.6	3054.5	2983.1	2971.9
70°	3411.6	3434.1	3511.1	3623.1	3770.2	3931.2	3754.8	3397.6	3277.2	3226.8	3219.8
72.5°	3373.8	3403.2	3516.7	3684.7	3894.8	4076.9	3854.2	3438.3	3264.6	3194.6	3172.2
75°	2946.7	2978.9	3113.3	3417.2	3801.0	4072.7	3710.0	3168.0	2963.5	2904.7	2893.5
77.5°	1950.9	1981.7	2208.6	2687.6	3319.2	3711.4	3274.4	2654.0	2324.8	2183.4	2175.0
80°	788.5	827.7	1044.8	1553.2	2352.9	2885.1	2428.5	1698.8	1145.6	924.3	879.5
82.5°	183.5	218.5	317.9	572.8	1204.4	1796.9	1309.5	634.4	368.3	261.9	235.3
85°	77.0	78.4	135.8	186.3	376.7	725.5	428.6	231.1	187.7	137.3	134.4
87.5°	29.4	30.8	65.8	78.4	120.4	137.3	145.7	119.0	110.6	68.6	65.8
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)