

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: P397985

Luminaire Tested: **ARCH-S-PA1-70-740-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397985  
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-PA1-70-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10291 lumens  
Efficiency: N/A  
Efficacy: 139.1 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

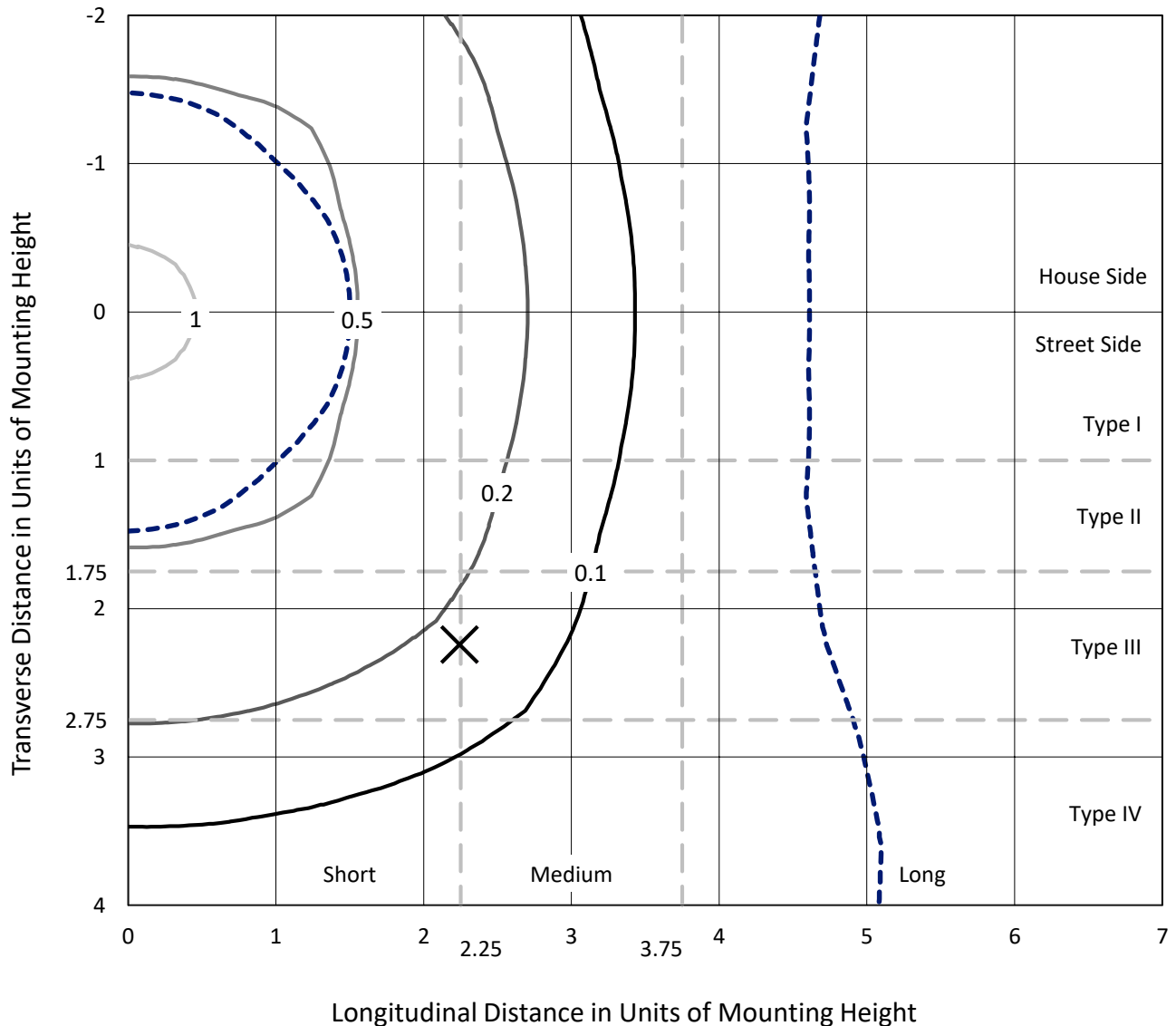
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

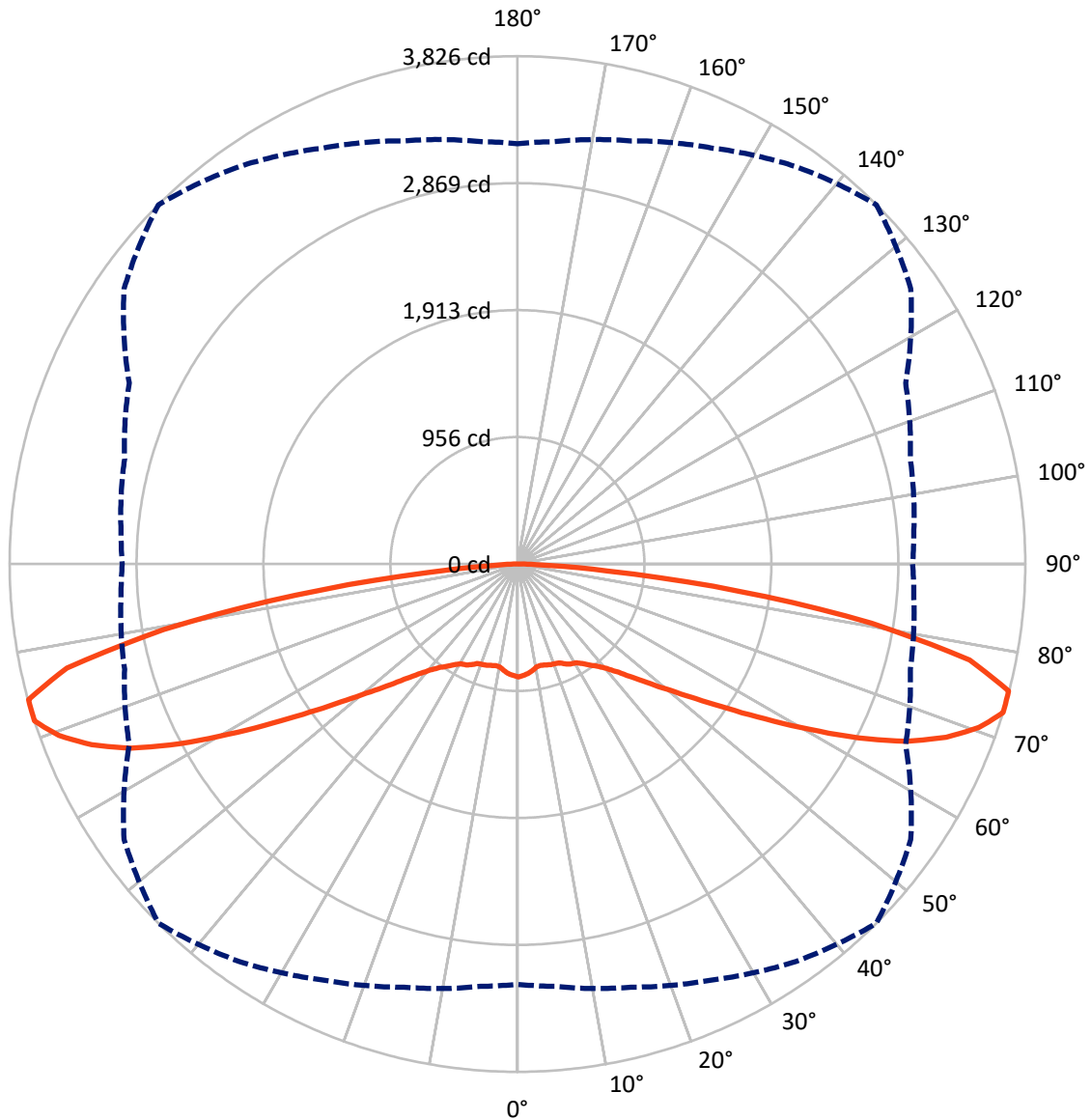


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - Non-Cutoff

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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	5145.5	0.0	5145.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5145.5	0.0	5145.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10291.0	0.0	10291.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	0.8
10°-20°	226.7	2.2
20°-30°	385.1	3.7
30°-40°	587.5	5.7
40°-50°	967.3	9.4
50°-60°	1689.2	16.4
60°-70°	2832.0	27.5
70°-80°	3030.8	29.5
80°-90°	494.3	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°	10291.0	100.0
0°-180°	10291.0	100.0



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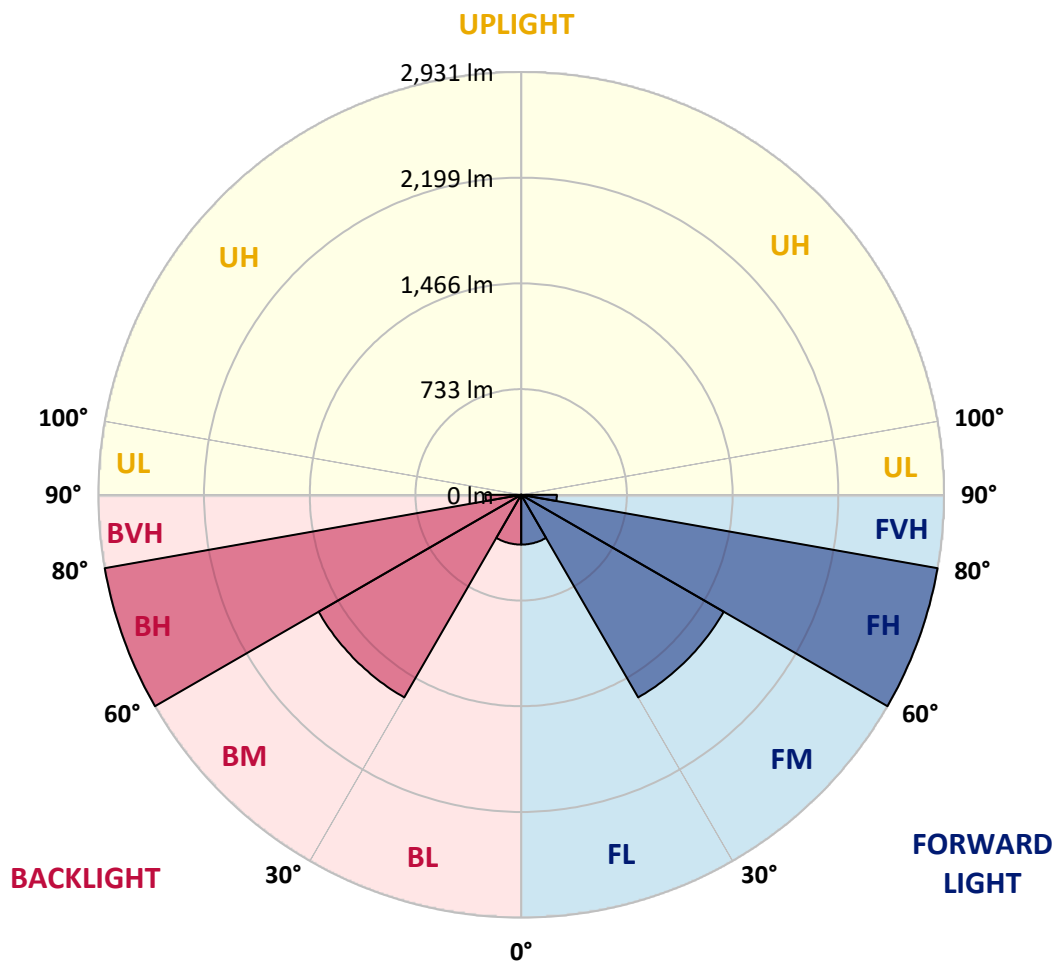
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.0	3.4			
FM	(30°-60°)	1622.0	15.8			
FH	(60°-80°)	2931.4	28.5			G2/5000
FVH	(80°-90°)	247.2	2.4			G3/500
BL	(0°-30°)	345.0	3.4	B1/500		
BM	(30°-60°)	1622.0	15.8	B2/2500		
BH	(60°-80°)	2931.4	28.5	B4/5000		G2/5000
BVH	(80°-90°)	247.2	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°	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6	851.6
2.5°	846.3	846.3	846.3	845.0	842.4	841.1	838.4	839.8	839.8	839.8	839.8
5°	835.8	835.8	834.5	833.2	830.6	829.3	826.6	829.3	829.3	829.3	829.3
7.5°	816.1	817.4	817.4	816.1	812.2	810.9	806.9	808.2	808.2	809.5	808.2
10°	805.6	805.6	804.3	797.7	791.1	788.5	787.2	791.1	795.1	799.0	799.0
12.5°	805.6	805.6	803.0	792.5	783.3	783.3	783.3	788.5	796.4	804.3	805.6
15°	809.5	809.5	804.3	792.5	787.2	788.5	788.5	793.8	803.0	813.5	814.8
17.5°	812.2	812.2	805.6	793.8	793.8	797.7	795.1	799.0	808.2	820.1	821.4
20°	816.1	816.1	806.9	797.7	797.7	801.7	801.7	805.6	813.5	825.3	826.6
22.5°	824.0	822.7	813.5	805.6	805.6	808.2	810.9	816.1	822.7	833.2	835.8
25°	833.2	833.2	825.3	824.0	826.6	833.2	831.9	830.6	833.2	842.4	846.3
27.5°	838.4	838.4	833.2	837.1	847.6	852.9	846.3	841.1	841.1	850.3	851.6
30°	855.5	854.2	849.0	851.6	860.8	863.4	859.5	852.9	856.8	867.4	868.7
32.5°	884.4	884.4	876.6	876.6	883.1	893.6	880.5	876.6	881.8	893.6	895.0
35°	929.1	929.1	918.6	913.4	918.6	933.1	913.4	912.0	921.2	934.4	935.7
37.5°	985.6	985.6	979.1	965.9	967.2	976.4	959.4	958.0	975.1	989.6	989.6
40°	1056.6	1060.5	1054.0	1038.2	1032.9	1034.3	1021.1	1022.4	1042.1	1059.2	1059.2
42.5°	1144.7	1147.3	1136.8	1124.9	1118.4	1114.4	1101.3	1103.9	1127.6	1149.9	1149.9
45°	1251.1	1252.4	1241.9	1227.4	1219.6	1216.9	1203.8	1210.4	1236.6	1260.3	1259.0
47.5°	1370.7	1372.0	1361.5	1347.0	1341.8	1345.7	1332.6	1332.6	1356.2	1376.0	1373.3
50°	1506.1	1508.7	1496.9	1490.3	1486.3	1496.9	1481.1	1466.6	1482.4	1502.1	1499.5
52.5°	1655.9	1662.4	1654.6	1657.2	1671.6	1684.8	1658.5	1627.0	1634.8	1648.0	1644.0
55°	1837.2	1845.1	1847.7	1856.9	1895.1	1917.4	1874.0	1821.5	1817.5	1818.8	1812.3
57.5°	2040.9	2046.2	2063.3	2084.3	2163.1	2198.6	2130.3	2039.6	2010.7	1993.6	1989.7
60°	2245.9	2255.1	2297.2	2340.6	2461.5	2525.9	2420.7	2268.3	2206.5	2175.0	2168.4
62.5°	2452.3	2470.7	2539.0	2612.6	2788.7	2884.6	2723.0	2502.2	2412.8	2373.4	2362.9
65°	2691.5	2713.8	2796.6	2889.9	3085.7	3221.1	3025.3	2744.0	2648.1	2595.5	2582.4
67.5°	2971.4	2995.0	3062.1	3165.9	3351.2	3483.9	3310.4	2991.1	2866.2	2799.2	2788.7
70°	3201.4	3222.4	3294.7	3399.8	3537.8	3688.9	3523.3	3188.2	3075.2	3027.9	3021.3
72.5°	3165.9	3193.5	3299.9	3457.6	3654.7	3825.6	3616.6	3226.3	3063.4	2997.7	2976.6
75°	2765.0	2795.3	2921.4	3206.6	3566.7	3821.6	3481.3	2972.7	2780.8	2725.6	2715.1
77.5°	1830.7	1859.6	2072.5	2521.9	3114.6	3482.6	3072.6	2490.4	2181.5	2048.8	2040.9
80°	739.9	776.7	980.4	1457.4	2207.8	2707.2	2278.8	1594.1	1075.0	867.4	825.3
82.5°	172.2	205.0	298.3	537.5	1130.2	1686.1	1228.8	595.3	345.6	245.8	220.8
85°	72.3	73.6	127.5	174.8	353.5	680.7	402.1	216.8	176.1	128.8	126.2
87.5°	27.6	28.9	61.8	73.6	113.0	128.8	136.7	111.7	103.8	64.4	61.8
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)