

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: P397913

Luminaire Tested: **ARCH-S-PA1-60-740-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397913  
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-PA1-60-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 9230 lumens  
Efficiency: N/A  
Efficacy: 144.2 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 - 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

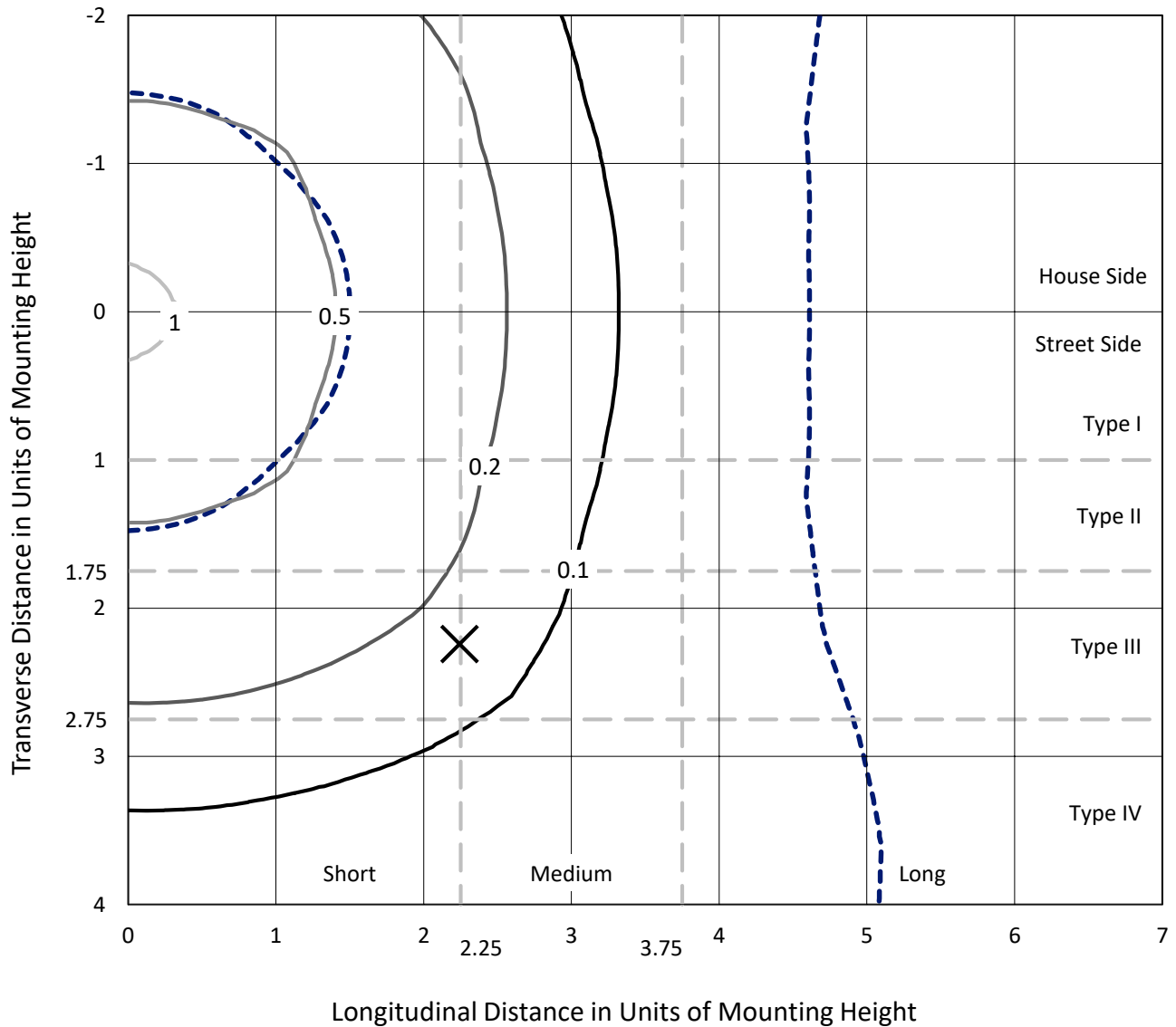


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

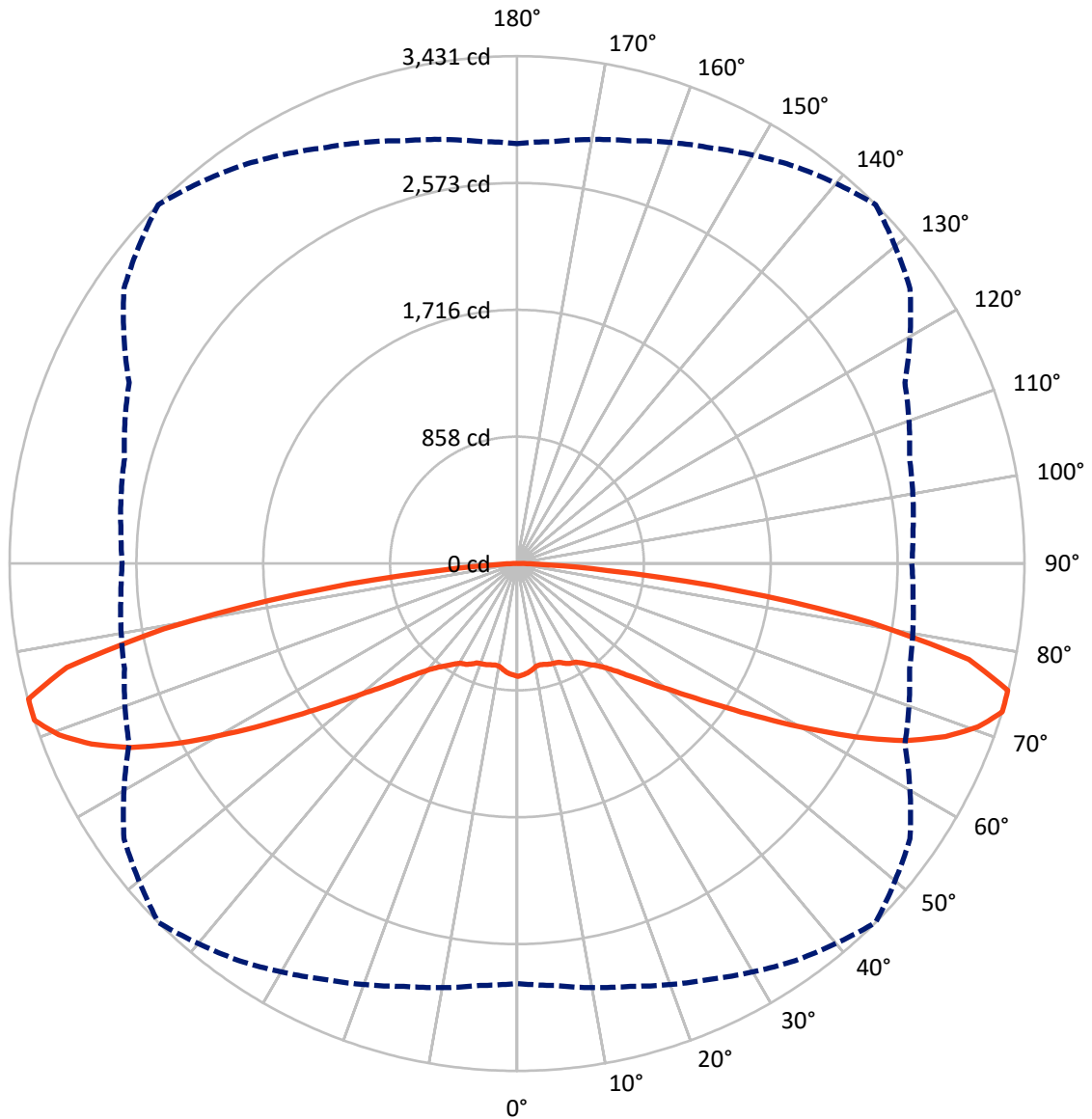


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - Non-Cutoff

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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	4615.0	0.0	4615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4615.0	0.0	4615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9230.0	0.0	9230.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	0.8
10°-20°	203.3	2.2
20°-30°	345.4	3.7
30°-40°	526.9	5.7
40°-50°	867.6	9.4
50°-60°	1515.0	16.4
60°-70°	2540.0	27.5
70°-80°	2718.3	29.5
80°-90°	443.4	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°	9230.0	100.0
0°-180°	9230.0	100.0



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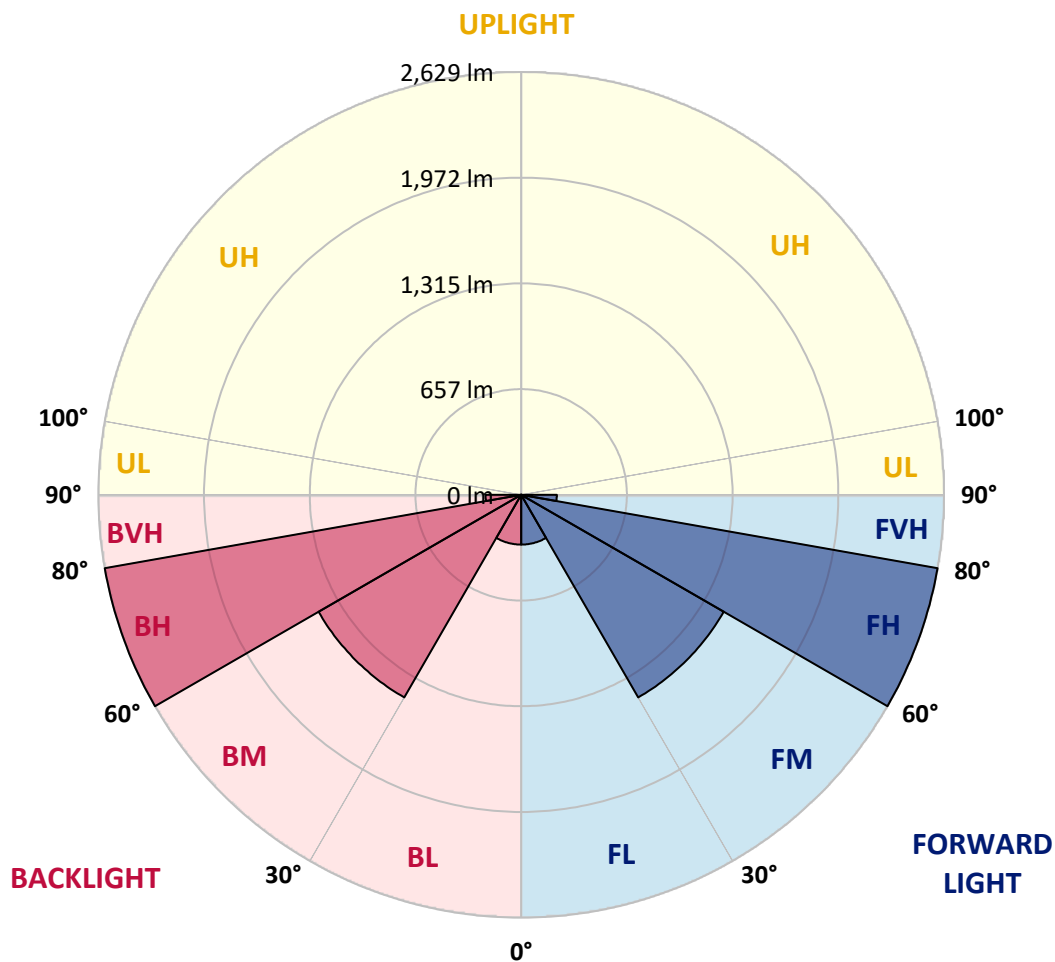
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.4	3.4			
FM	(30°-60°)	1454.8	15.8			
FH	(60°-80°)	2629.2	28.5			G2/5000
FVH	(80°-90°)	221.7	2.4			G2/225
BL	(0°-30°)	309.4	3.4	B1/500		
BM	(30°-60°)	1454.8	15.8	B2/2500		
BH	(60°-80°)	2629.2	28.5	B4/5000		G2/5000
BVH	(80°-90°)	221.7	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8
2.5°	759.1	759.1	759.1	757.9	755.5	754.4	752.0	753.2	753.2	753.2	753.2
5°	749.6	749.6	748.5	747.3	744.9	743.8	741.4	743.8	743.8	743.8	743.8
7.5°	732.0	733.1	733.1	732.0	728.4	727.3	723.7	724.9	724.9	726.1	724.9
10°	722.5	722.5	721.4	715.5	709.6	707.2	706.0	709.6	713.1	716.6	716.6
12.5°	722.5	722.5	720.2	710.8	702.5	702.5	702.5	707.2	714.3	721.4	722.5
15°	726.1	726.1	721.4	710.8	706.0	707.2	707.2	711.9	720.2	729.6	730.8
17.5°	728.4	728.4	722.5	711.9	711.9	715.5	713.1	716.6	724.9	735.5	736.7
20°	732.0	732.0	723.7	715.5	715.5	719.0	719.0	722.5	729.6	740.2	741.4
22.5°	739.0	737.9	729.6	722.5	722.5	724.9	727.3	732.0	737.9	747.3	749.6
25°	747.3	747.3	740.2	739.0	741.4	747.3	746.1	744.9	747.3	755.5	759.1
27.5°	752.0	752.0	747.3	750.8	760.3	765.0	759.1	754.4	754.4	762.6	763.8
30°	767.3	766.2	761.4	763.8	772.0	774.4	770.9	765.0	768.5	777.9	779.1
32.5°	793.3	793.3	786.2	786.2	792.1	801.5	789.7	786.2	790.9	801.5	802.7
35°	833.3	833.3	823.9	819.2	823.9	836.9	819.2	818.0	826.3	838.1	839.2
37.5°	884.0	884.0	878.1	866.3	867.5	875.8	860.4	859.3	874.6	887.6	887.6
40°	947.7	951.2	945.3	931.2	926.5	927.6	915.8	917.0	934.7	950.0	950.0
42.5°	1026.6	1029.0	1019.6	1009.0	1003.1	999.5	987.7	990.1	1011.3	1031.4	1031.4
45°	1122.1	1123.3	1113.9	1100.9	1093.8	1091.5	1079.7	1085.6	1109.1	1130.4	1129.2
47.5°	1229.4	1230.6	1221.1	1208.2	1203.4	1207.0	1195.2	1195.2	1216.4	1234.1	1231.7
50°	1350.8	1353.1	1342.5	1336.6	1333.1	1342.5	1328.4	1315.4	1329.6	1347.2	1344.9
52.5°	1485.2	1491.0	1484.0	1486.3	1499.3	1511.1	1487.5	1459.2	1466.3	1478.1	1474.5
55°	1647.8	1654.9	1657.2	1665.5	1699.7	1719.7	1680.8	1633.7	1630.1	1631.3	1625.4
57.5°	1830.5	1835.2	1850.5	1869.4	1940.1	1972.0	1910.7	1829.3	1803.4	1788.1	1784.5
60°	2014.4	2022.6	2060.4	2099.3	2207.7	2265.4	2171.2	2034.4	1979.0	1950.7	1944.8
62.5°	2199.4	2215.9	2277.2	2343.2	2501.2	2587.2	2442.3	2244.2	2164.1	2128.7	2119.3
65°	2414.0	2434.0	2508.3	2591.9	2767.6	2889.0	2713.4	2461.1	2375.1	2327.9	2316.1
67.5°	2665.0	2686.2	2746.4	2839.5	3005.7	3124.7	2969.1	2682.7	2570.7	2510.6	2501.2
70°	2871.3	2890.2	2955.0	3049.3	3173.0	3308.6	3160.1	2859.5	2758.1	2715.7	2709.8
72.5°	2839.5	2864.2	2959.7	3101.1	3277.9	3431.2	3243.8	2893.7	2747.5	2688.6	2669.7
75°	2480.0	2507.1	2620.2	2876.0	3199.0	3427.6	3122.4	2666.2	2494.1	2444.6	2435.2
77.5°	1641.9	1667.8	1858.8	2261.9	2793.5	3123.5	2755.8	2233.6	1956.6	1837.6	1830.5
80°	663.6	696.6	879.3	1307.2	1980.2	2428.1	2043.9	1429.8	964.2	777.9	740.2
82.5°	154.4	183.9	267.6	482.1	1013.7	1512.3	1102.1	533.9	310.0	220.4	198.0
85°	64.8	66.0	114.3	156.8	317.1	610.6	360.7	194.5	157.9	115.5	113.2
87.5°	24.8	25.9	55.4	66.0	101.4	115.5	122.6	100.2	93.1	57.8	55.4
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)