

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: P573408

Luminaire Tested: **ARCH-S-PA2-70-750-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-70-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11046 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

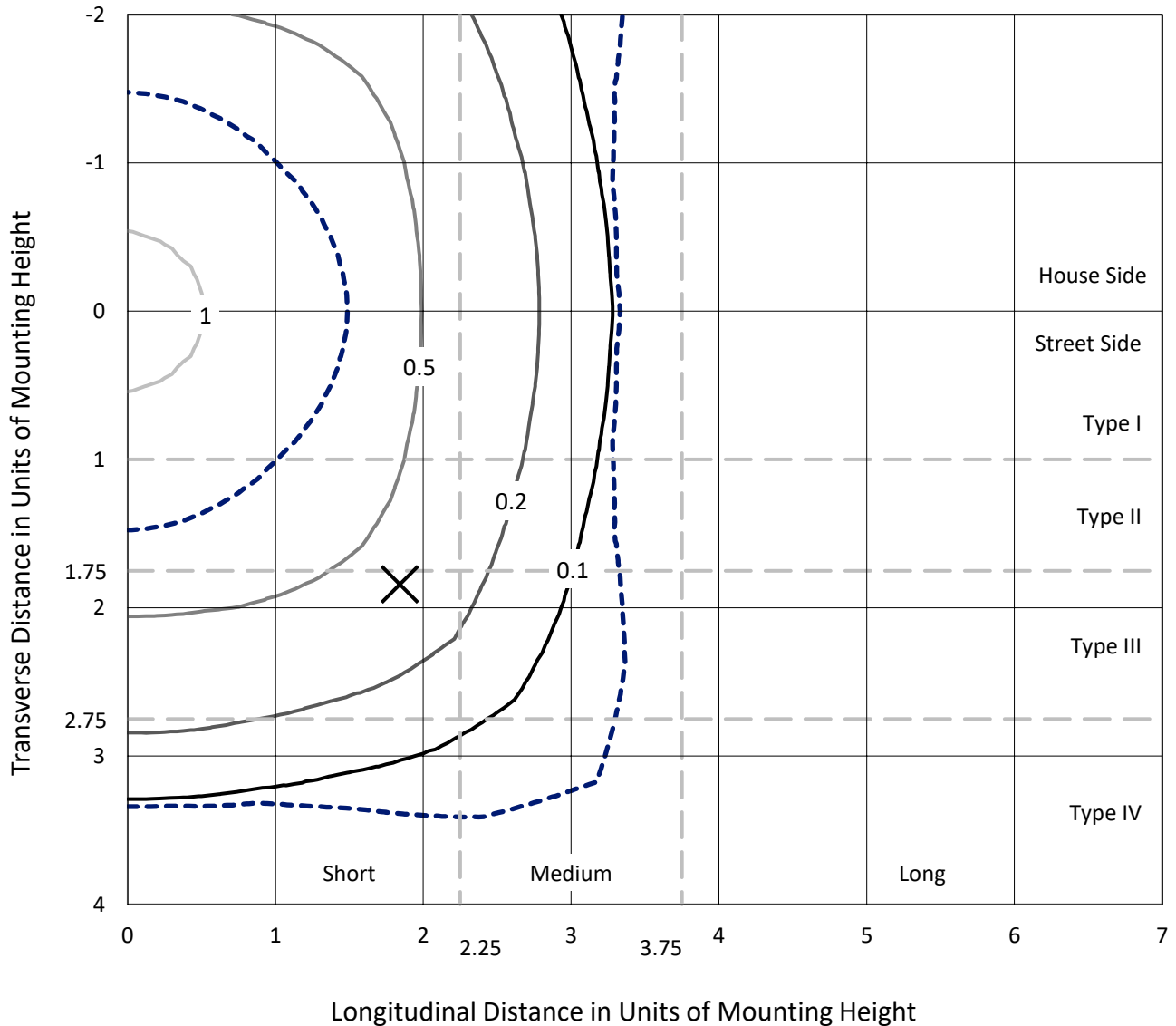
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

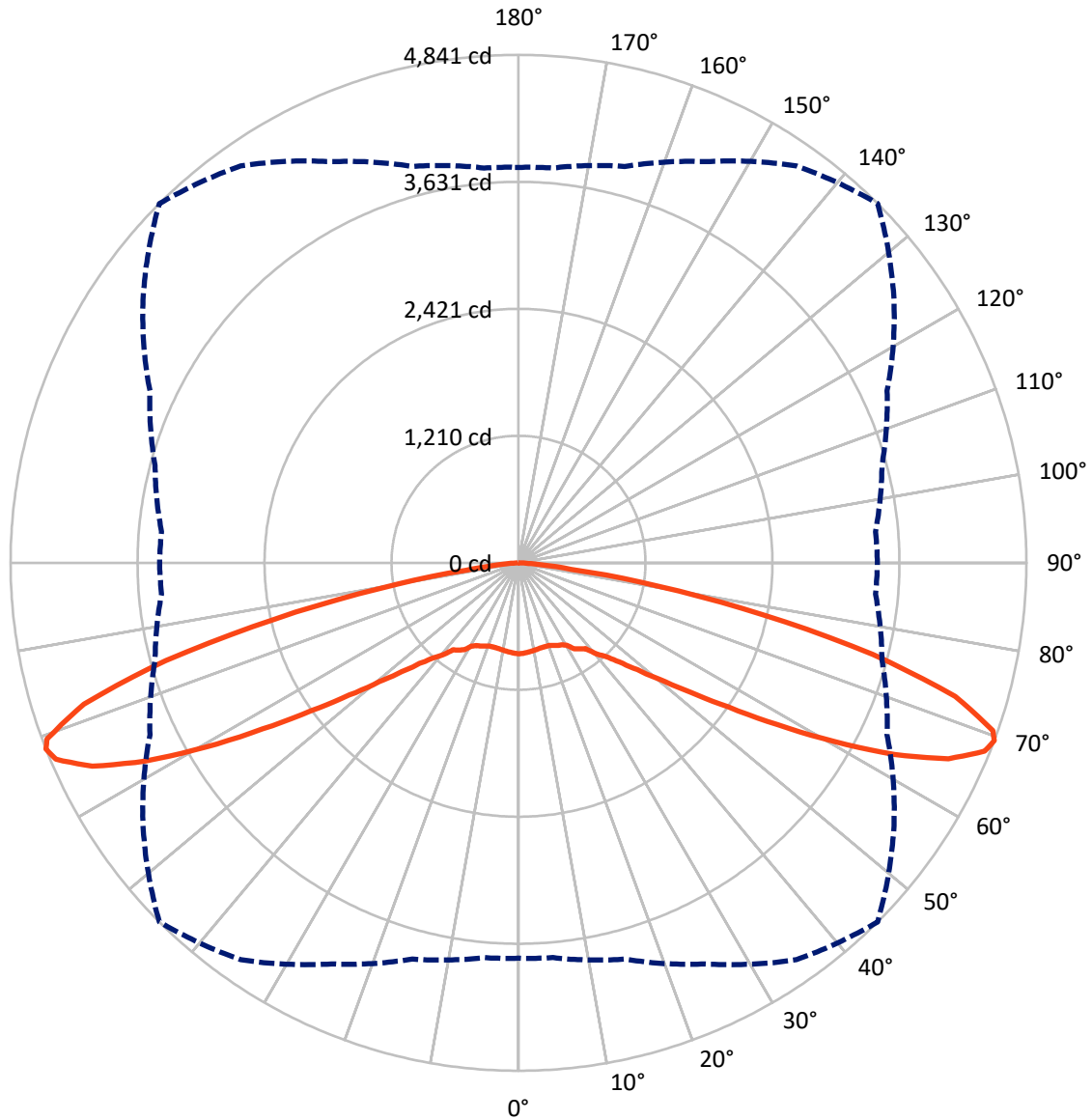
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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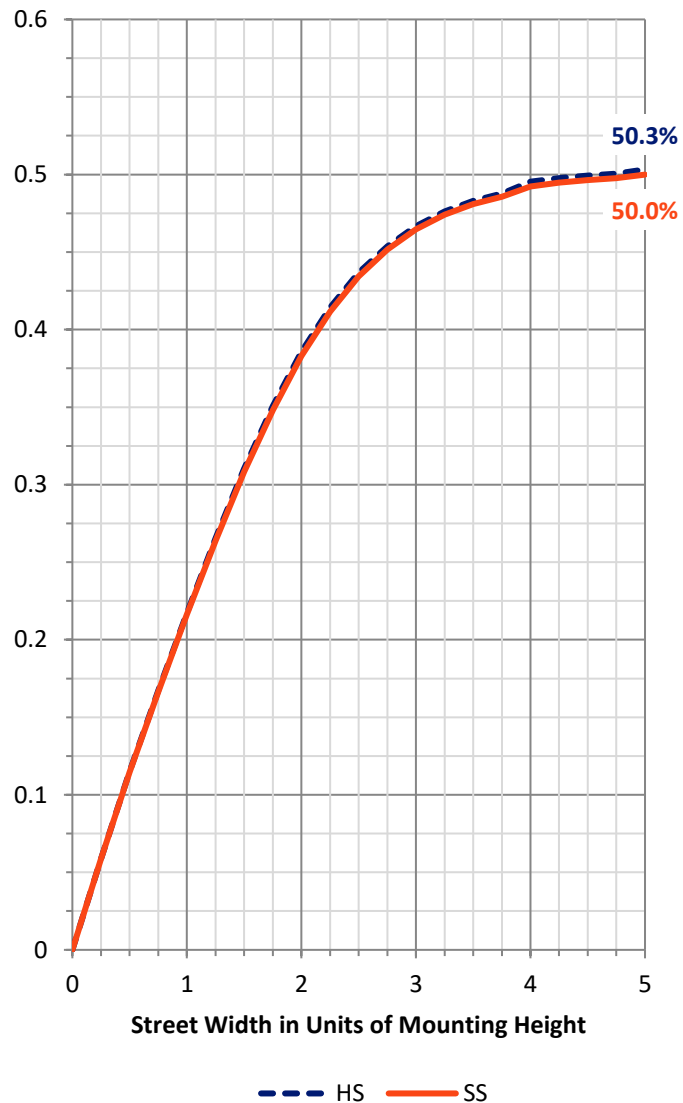
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5523.0	0.0	5523.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5523.0	0.0	5523.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11046.0	0.0	11046.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	0.7
10°-20°	240.1	2.2
20°-30°	407.1	3.7
30°-40°	633.0	5.7
40°-50°	1086.7	9.8
50°-60°	2162.0	19.6
60°-70°	3851.4	34.9
70°-80°	2425.5	22.0
80°-90°	158.4	1.4
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°	11046.0	100.0
0°-180°	11046.0	100.0

**Coefficient of Utilization**



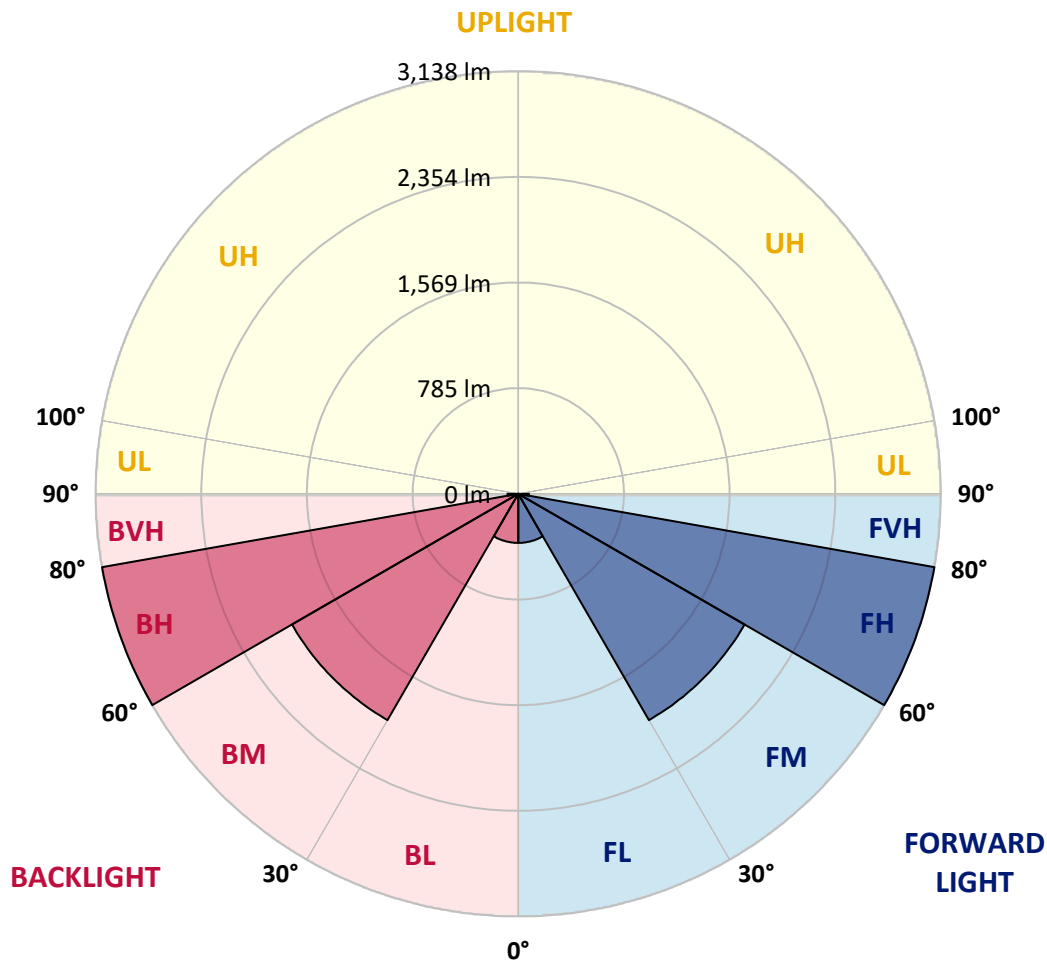
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.5	3.3			
FM (30°-60°)	1940.9	17.6			
FH (60°-80°)	3138.5	28.4			G2/5000
FVH (80°-90°)	79.2	0.7			G1/100
BL (0°-30°)	364.5	3.3	B1/500		
BM (30°-60°)	1940.9	17.6	B2/2500		
BH (60°-80°)	3138.5	28.4	B4/5000		G2/5000
BVH (80°-90°)	79.2	0.7			G1/100
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°	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8	866.8
2.5°	872.6	869.7	869.7	866.8	863.9	863.9	863.9	861.0	863.9	863.9	863.9
5°	869.7	866.8	863.9	861.0	861.0	858.1	861.0	858.1	858.1	858.1	858.1
7.5°	861.0	861.0	855.2	855.2	852.3	852.3	849.4	849.4	849.4	846.5	846.5
10°	861.0	858.1	855.2	849.4	846.5	846.5	846.5	843.6	846.5	846.5	846.5
12.5°	861.0	861.0	852.3	846.5	840.7	840.7	840.7	840.7	846.5	849.4	849.4
15°	866.8	863.9	855.2	843.6	837.8	837.8	837.8	840.7	846.5	852.3	852.3
17.5°	869.7	863.9	852.3	840.7	837.8	837.8	837.8	840.7	849.4	855.2	858.1
20°	872.6	869.7	855.2	843.6	840.7	840.7	840.7	840.7	849.4	858.1	861.0
22.5°	881.3	878.4	863.9	855.2	852.3	852.3	852.3	852.3	861.0	872.6	872.6
25°	892.9	887.1	872.6	866.8	866.8	872.6	872.6	866.8	875.5	884.2	887.1
27.5°	913.2	907.4	892.9	887.1	884.2	884.2	884.2	884.2	890.0	904.5	904.5
30°	930.6	927.7	921.9	921.9	919.0	913.2	913.2	919.0	921.9	927.7	930.6
32.5°	953.8	948.0	942.2	942.2	959.6	977.0	962.5	939.3	936.4	939.3	942.2
35°	1003.0	997.3	982.8	974.1	991.5	1008.8	985.7	971.2	979.9	988.6	988.6
37.5°	1072.6	1069.7	1058.1	1040.7	1034.9	1037.8	1029.1	1040.7	1063.9	1081.3	1084.2
40°	1145.1	1142.2	1130.6	1121.9	1124.8	1139.3	1133.5	1121.9	1136.4	1148.0	1148.0
42.5°	1258.2	1246.6	1229.2	1206.0	1208.9	1220.5	1206.0	1217.6	1237.9	1258.2	1261.1
45°	1408.9	1397.3	1374.1	1353.8	1339.3	1345.1	1345.1	1365.4	1388.6	1411.8	1420.5
47.5°	1571.3	1568.4	1545.2	1527.8	1513.3	1522.0	1522.0	1522.0	1559.7	1582.8	1582.8
50°	1771.3	1762.6	1762.6	1748.1	1742.3	1745.2	1733.6	1745.2	1762.6	1768.4	1759.7
52.5°	2009.0	2000.3	2006.1	2011.9	2026.4	2046.7	2017.7	2014.8	2006.1	1997.4	1994.5
55°	2293.1	2301.8	2325.0	2362.7	2385.9	2426.5	2383.0	2330.8	2307.6	2284.4	2267.0
57.5°	2632.3	2646.8	2681.6	2771.4	2870.0	2907.7	2832.3	2736.6	2655.5	2588.8	2603.3
60°	3075.8	3067.1	3125.1	3246.9	3386.0	3461.4	3342.5	3186.0	3055.5	3023.6	3032.3
62.5°	3548.4	3565.8	3606.3	3768.7	3942.6	4023.8	3878.8	3646.9	3478.8	3391.8	3391.8
65°	3844.1	3855.7	3968.7	4197.7	4392.0	4502.1	4296.3	3960.0	3719.4	3574.4	3565.8
67.5°	3887.5	3899.1	4026.7	4319.5	4638.4	4792.0	4435.4	3997.7	3716.5	3539.7	3533.9
69°	3768.7	3777.4	3910.7	4218.0	4618.1	4841.3	4368.8	3875.9	3586.0	3415.0	3420.8
70°	3597.6	3632.4	3733.9	4047.0	4510.8	4797.8	4247.0	3739.7	3438.2	3301.9	3278.8
72.5°	2820.7	2843.9	3012.0	3400.5	4026.7	4354.3	3731.0	3165.7	2858.4	2716.3	2751.1
75°	1597.3	1591.5	1806.1	2362.7	3104.8	3487.5	2936.7	2278.6	1832.2	1661.1	1684.3
77.5°	608.8	634.9	779.8	1211.8	1951.0	2383.0	1948.1	1217.6	852.3	663.9	632.0
80°	197.1	208.7	275.4	440.6	832.0	1345.1	910.3	469.6	295.7	223.2	208.7
82.5°	78.3	87.0	104.4	147.8	281.2	507.3	307.3	171.0	127.6	104.4	95.7
85°	43.5	40.6	55.1	66.7	95.7	144.9	104.4	81.2	69.6	49.3	46.4
87.5°	14.5	14.5	23.2	23.2	26.1	23.2	26.1	29.0	29.0	17.4	14.5
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)