

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: P572733

Luminaire Tested: **ARCH-S-PA2-110-730-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572733  
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-PA2-110-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14129 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

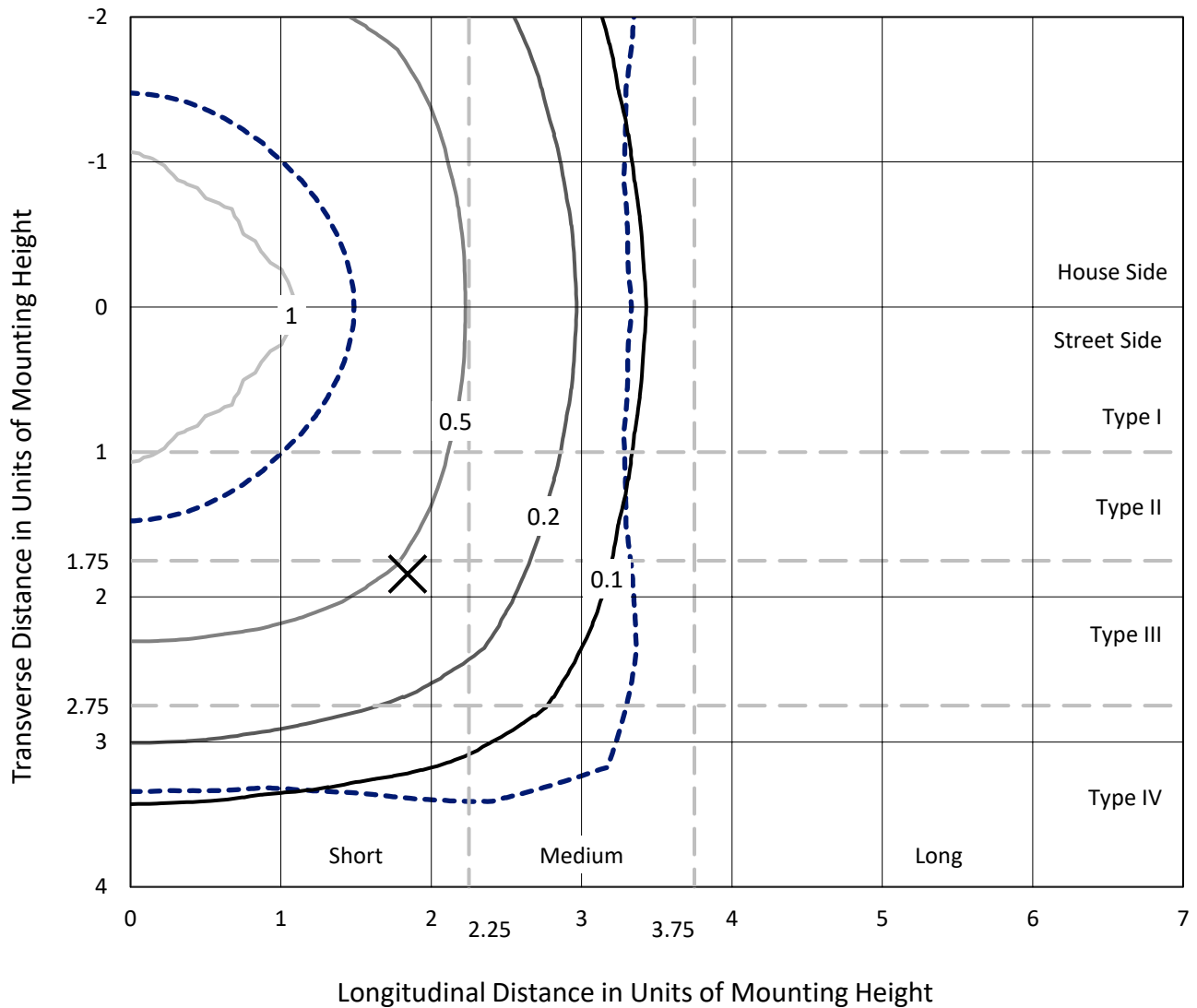
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

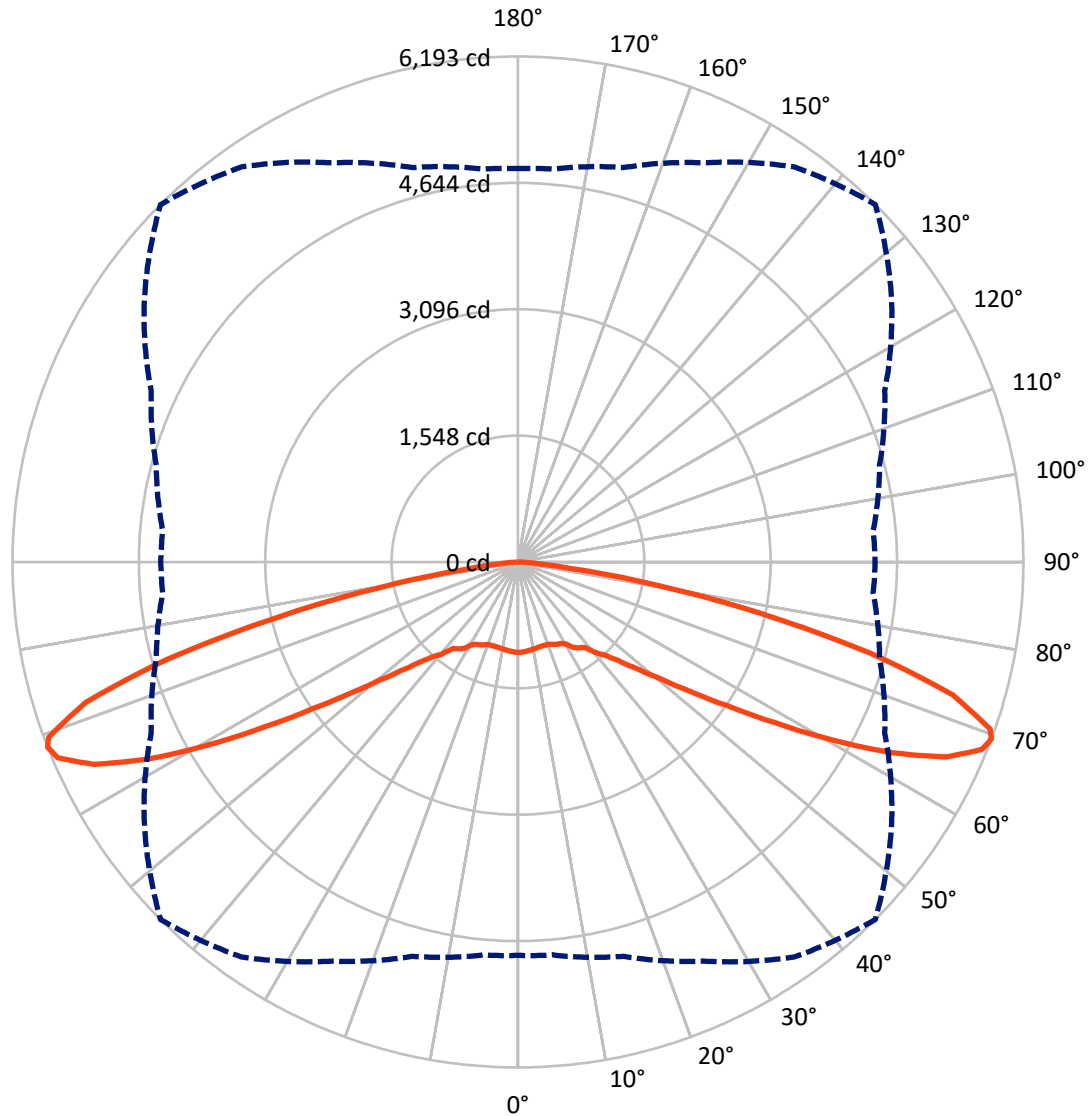
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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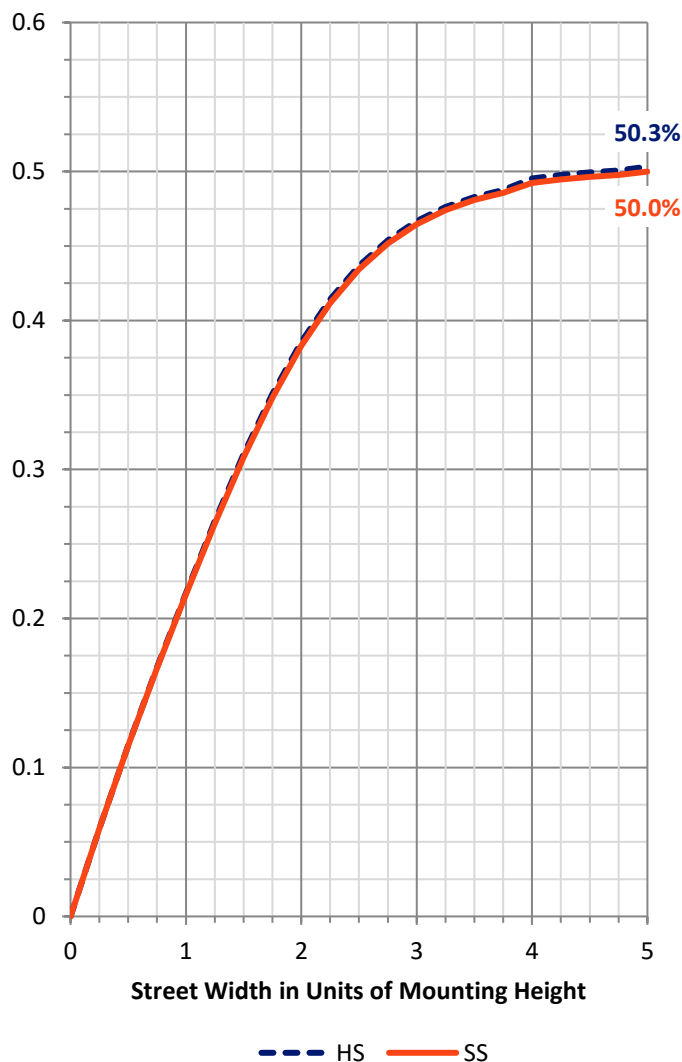
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7064.5	0.0	7064.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7064.5	0.0	7064.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14129.0	0.0	14129.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	0.7
10°-20°	307.1	2.2
20°-30°	520.8	3.7
30°-40°	809.7	5.7
40°-50°	1390.0	9.8
50°-60°	2765.5	19.6
60°-70°	4926.3	34.9
70°-80°	3102.5	22.0
80°-90°	202.6	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°	14129.0	100.0
0°-180°	14129.0	100.0

**Coefficient of Utilization**

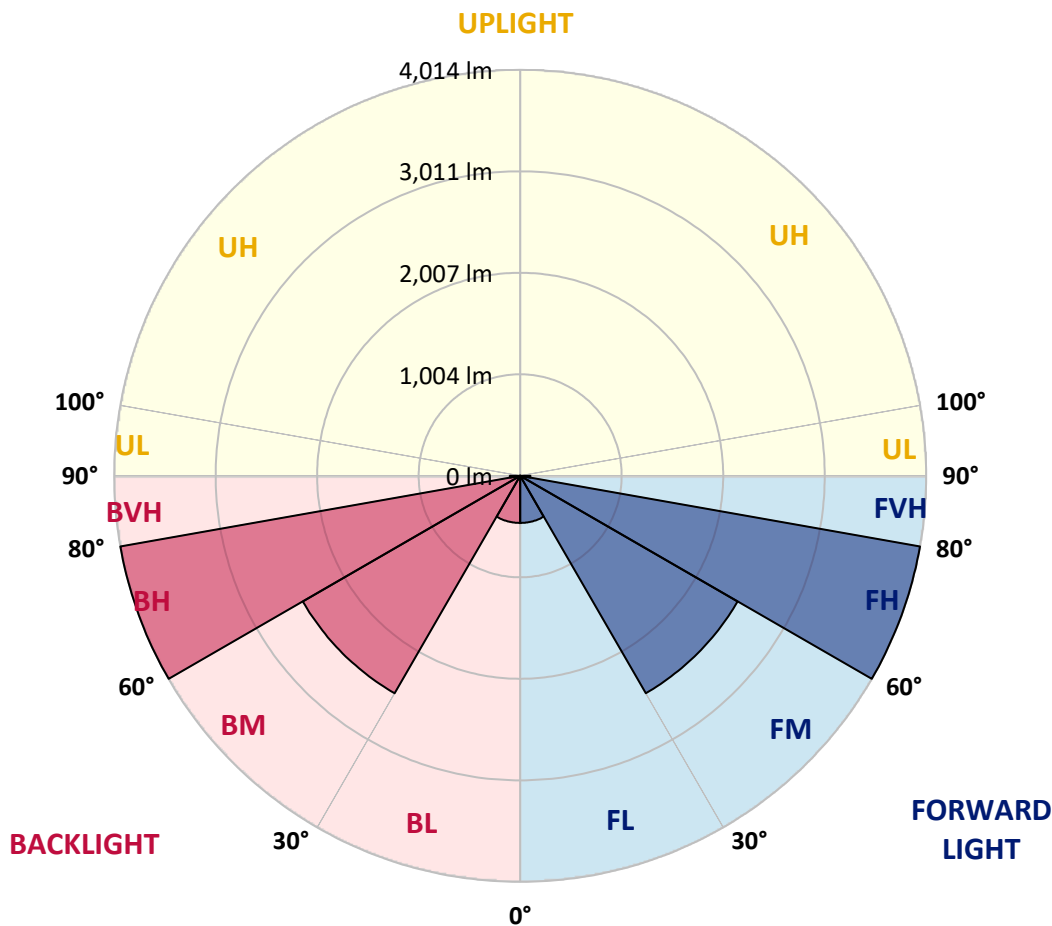


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.2	3.3			
FM (30°-60°)	2482.6	17.6			
FH (60°-80°)	4014.4	28.4			G2/5000
FVH (80°-90°)	101.3	0.7			G2/225
BL (0°-30°)	466.2	3.3	B1/500		
BM (30°-60°)	2482.6	17.6	B2/2500		
BH (60°-80°)	4014.4	28.4	B4/5000		G2/5000
BVH (80°-90°)	101.3	0.7			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°	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7	1108.7
2.5°	1116.1	1112.4	1112.4	1108.7	1105.0	1105.0	1105.0	1101.3	1105.0	1105.0	1105.0
5°	1112.4	1108.7	1105.0	1101.3	1101.3	1097.6	1101.3	1097.6	1097.6	1097.6	1097.6
7.5°	1101.3	1101.3	1093.9	1093.9	1090.2	1090.2	1086.5	1086.5	1086.5	1082.8	1082.8
10°	1101.3	1097.6	1093.9	1086.5	1082.8	1082.8	1082.8	1079.1	1082.8	1082.8	1082.8
12.5°	1101.3	1101.3	1090.2	1082.8	1075.4	1075.4	1075.4	1075.4	1082.8	1086.5	1086.5
15°	1108.7	1105.0	1093.9	1079.1	1071.6	1071.6	1071.6	1075.4	1082.8	1090.2	1090.2
17.5°	1112.4	1105.0	1090.2	1075.4	1071.6	1071.6	1071.6	1075.4	1086.5	1093.9	1097.6
20°	1116.1	1112.4	1093.9	1079.1	1075.4	1075.4	1075.4	1075.4	1086.5	1097.6	1101.3
22.5°	1127.3	1123.6	1105.0	1093.9	1090.2	1093.9	1090.2	1090.2	1101.3	1116.1	1116.1
25°	1142.1	1134.7	1116.1	1108.7	1108.7	1116.1	1116.1	1108.7	1119.8	1131.0	1134.7
27.5°	1168.1	1160.6	1142.1	1134.7	1131.0	1131.0	1131.0	1131.0	1138.4	1156.9	1156.9
30°	1190.3	1186.6	1179.2	1179.2	1175.5	1168.1	1168.1	1175.5	1179.2	1186.6	1190.3
32.5°	1220.0	1212.6	1205.1	1205.1	1227.4	1249.6	1231.1	1201.4	1197.7	1201.4	1205.1
35°	1283.0	1275.6	1257.0	1245.9	1268.2	1290.4	1260.8	1242.2	1253.3	1264.5	1264.5
37.5°	1372.0	1368.3	1353.5	1331.2	1323.8	1327.5	1316.4	1331.2	1360.9	1383.1	1386.8
40°	1464.7	1461.0	1446.2	1435.0	1438.7	1457.3	1449.9	1435.0	1453.6	1468.4	1468.4
42.5°	1609.3	1594.5	1572.2	1542.6	1546.3	1561.1	1542.6	1557.4	1583.4	1609.3	1613.0
45°	1802.1	1787.3	1757.6	1731.7	1713.1	1720.6	1720.6	1746.5	1776.2	1805.8	1817.0
47.5°	2009.8	2006.1	1976.4	1954.2	1935.6	1946.8	1946.8	1946.8	1995.0	2024.6	2024.6
50°	2265.7	2254.5	2254.5	2236.0	2228.6	2232.3	2217.4	2232.3	2254.5	2261.9	2250.8
52.5°	2569.7	2558.6	2566.0	2573.4	2592.0	2617.9	2580.8	2577.1	2566.0	2554.9	2551.2
55°	2933.1	2944.2	2973.9	3022.1	3051.8	3103.7	3048.1	2981.3	2951.7	2922.0	2899.7
57.5°	3367.0	3385.5	3430.0	3545.0	3671.0	3719.2	3622.8	3500.5	3396.6	3311.3	3329.9
60°	3934.3	3923.2	3997.3	4153.1	4331.1	4427.5	4275.4	4075.2	3908.3	3867.6	3878.7
62.5°	4538.7	4561.0	4612.9	4820.5	5043.0	5146.9	4961.4	4664.8	4449.7	4338.5	4338.5
65°	4917.0	4931.8	5076.4	5369.3	5617.8	5758.7	5495.4	5065.3	4757.5	4572.1	4561.0
67.5°	4972.6	4987.4	5150.6	5525.1	5933.0	6129.5	5673.4	5113.5	4753.8	4527.6	4520.2
69°	4820.5	4831.7	5002.2	5395.3	5907.0	6192.5	5588.1	4957.7	4586.9	4368.2	4375.6
70°	4601.8	4646.3	4776.0	5176.5	5769.8	6136.9	5432.4	4783.5	4397.8	4223.5	4193.9
72.5°	3608.0	3637.7	3852.7	4349.6	5150.6	5569.6	4772.3	4049.3	3656.2	3474.5	3519.0
75°	2043.2	2035.8	2310.2	3022.1	3971.4	4460.9	3756.3	2914.6	2343.5	2124.7	2154.4
77.5°	778.7	812.1	997.5	1550.0	2495.6	3048.1	2491.8	1557.4	1090.2	849.2	808.4
80°	252.2	267.0	352.3	563.6	1064.2	1720.6	1164.3	600.7	378.2	285.5	267.0
82.5°	100.1	111.2	133.5	189.1	359.7	648.9	393.1	218.8	163.2	133.5	122.4
85°	55.6	51.9	70.5	85.3	122.4	185.4	133.5	103.8	89.0	63.0	59.3
87.5°	18.5	18.5	29.7	29.7	33.4	29.7	33.4	37.1	37.1	22.2	18.5
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)