

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: P572670

Luminaire Tested: **ARCH-S-PA2-100-740-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572670  
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-PA2-100-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14348 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

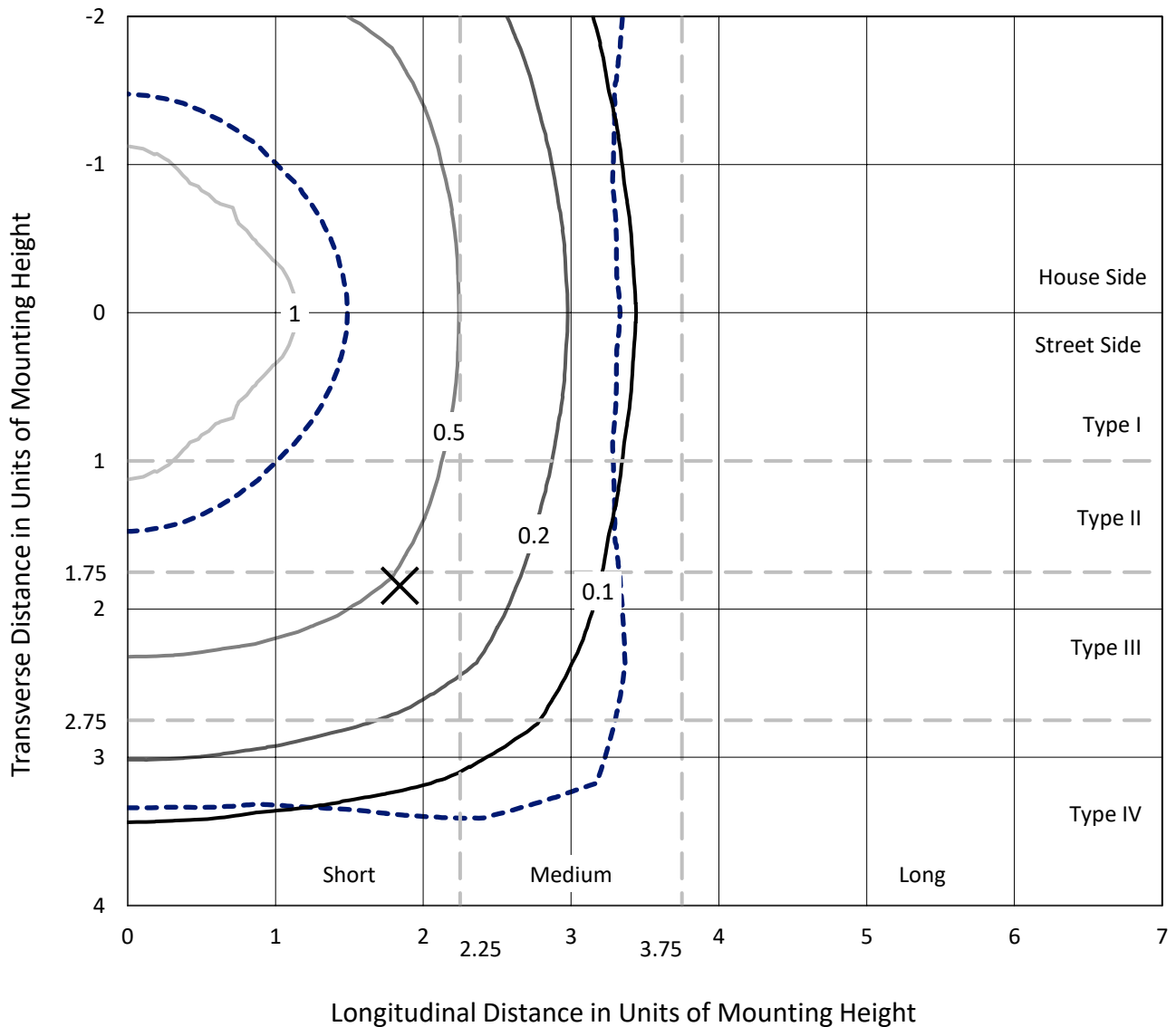
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

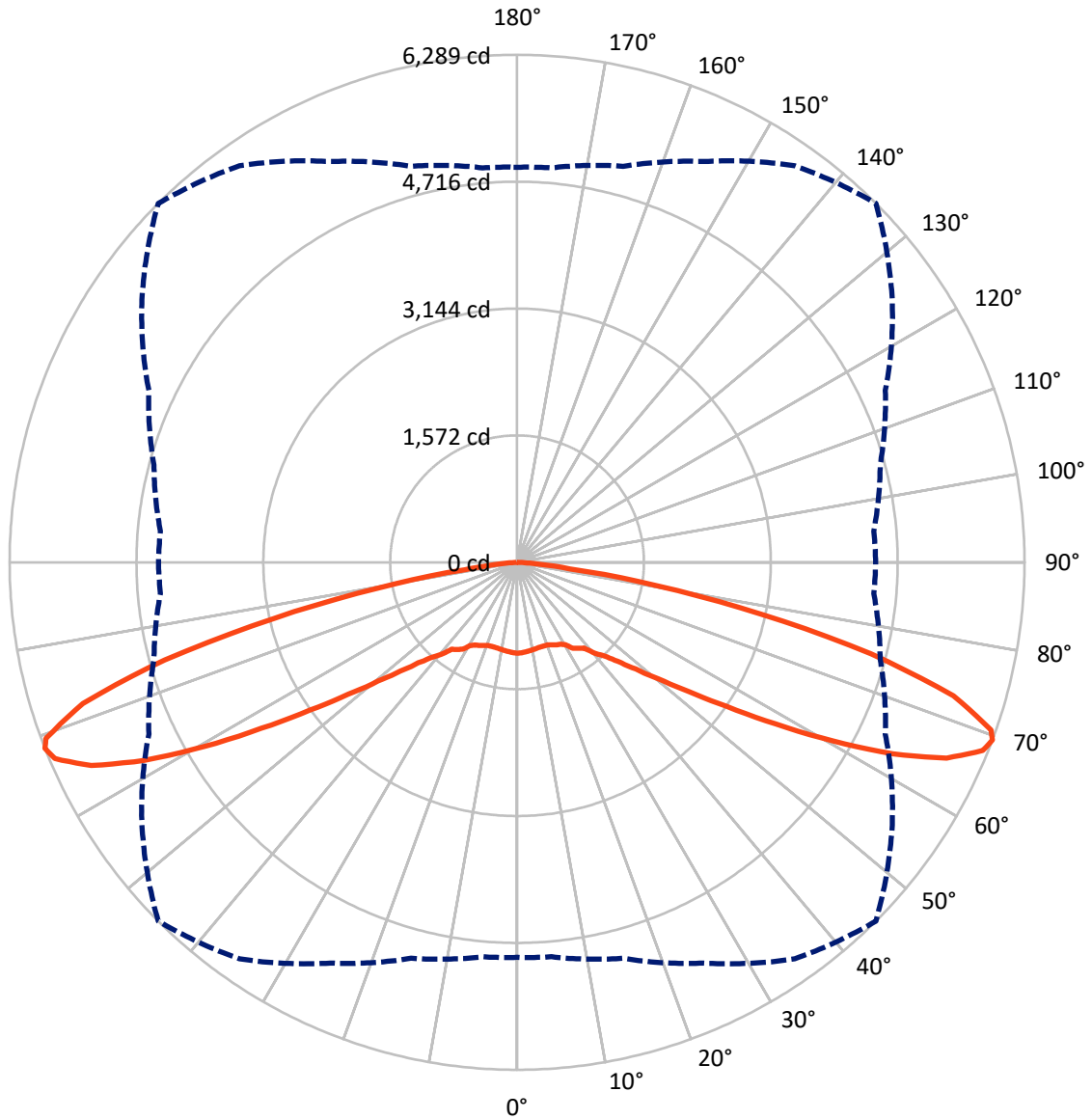
✕ Max cd  
 - - - 1/2 Max cd



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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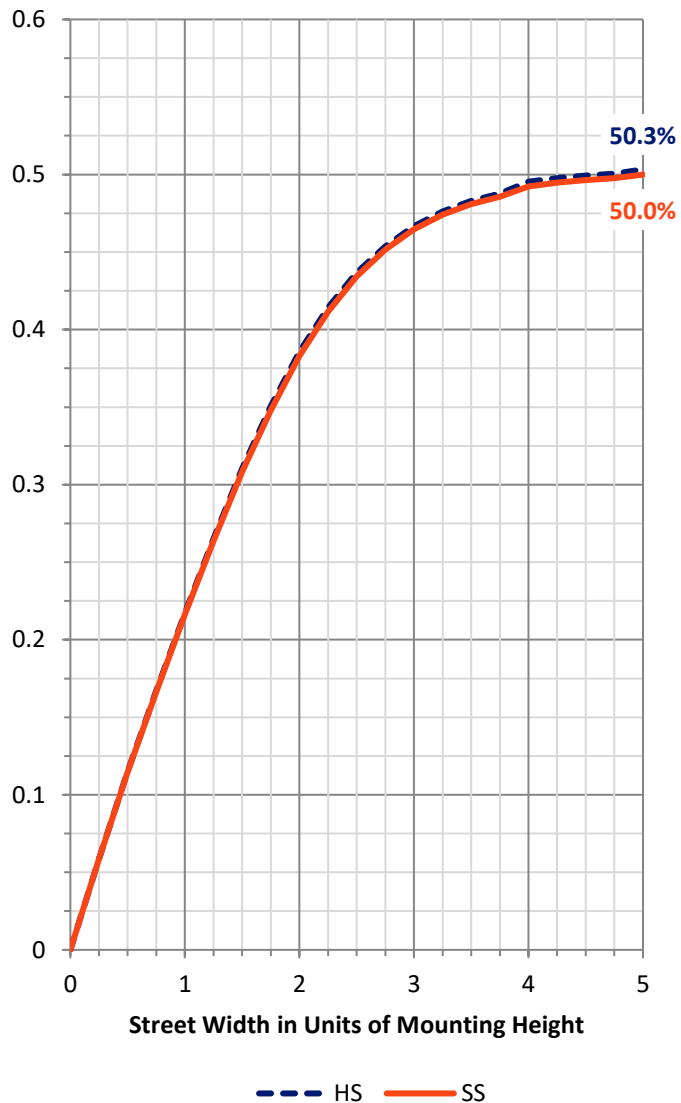
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7174.0	0.0	7174.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7174.0	0.0	7174.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14348.0	0.0	14348.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	0.7
10°-20°	311.9	2.2
20°-30°	528.8	3.7
30°-40°	822.2	5.7
40°-50°	1411.5	9.8
50°-60°	2808.4	19.6
60°-70°	5002.7	34.9
70°-80°	3150.6	22.0
80°-90°	205.8	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°	14348.0	100.0
0°-180°	14348.0	100.0

**Coefficient of Utilization**

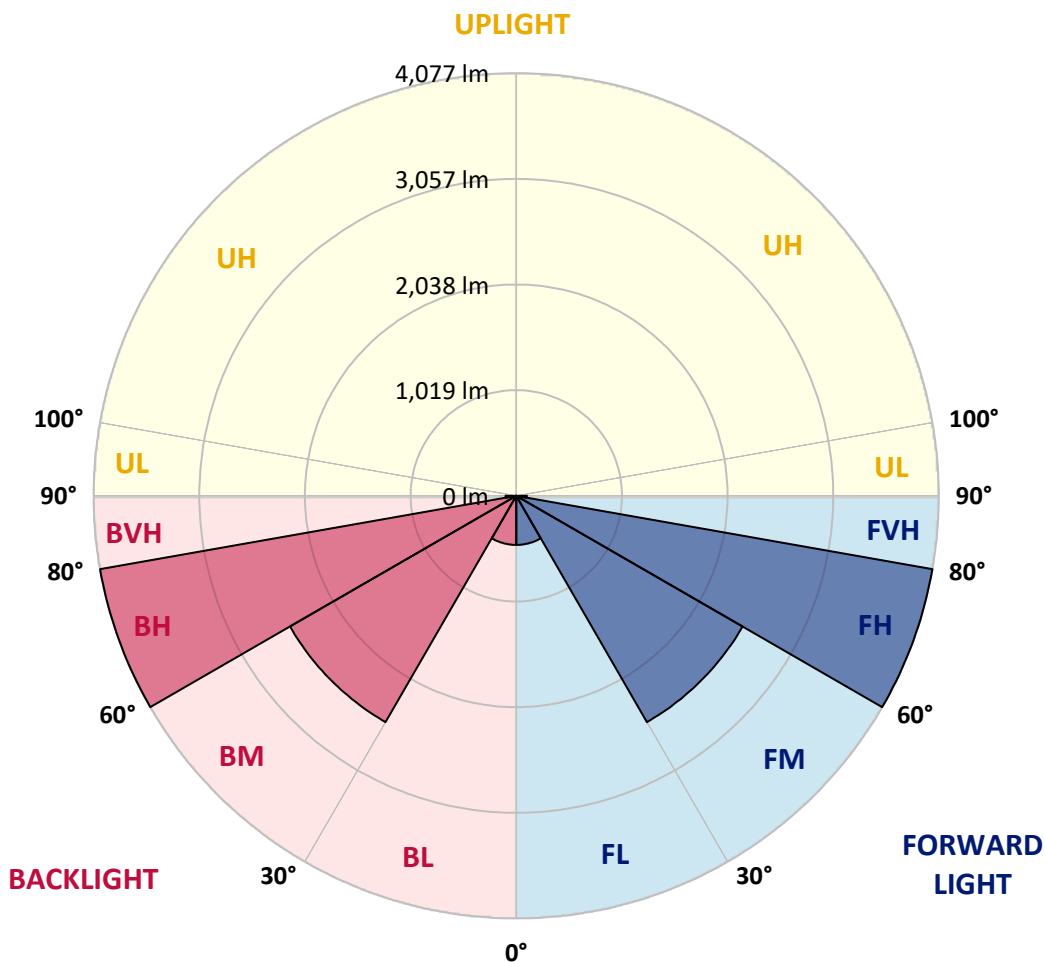


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.4	3.3			
FM (30°-60°)	2521.1	17.6			
FH (60°-80°)	4076.6	28.4			G2/5000
FVH (80°-90°)	102.9	0.7			G2/225
BL (0°-30°)	473.4	3.3	B1/500		
BM (30°-60°)	2521.1	17.6	B3/5000		
BH (60°-80°)	4076.6	28.4	B4/5000		G2/5000
BVH (80°-90°)	102.9	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°	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1133.4	1129.7	1129.7	1125.9	1122.1	1122.1	1122.1	1118.4	1122.1	1122.1	1122.1
5°	1129.7	1125.9	1122.1	1118.4	1118.4	1114.6	1118.4	1114.6	1114.6	1114.6	1114.6
7.5°	1118.4	1118.4	1110.8	1110.8	1107.1	1107.1	1103.3	1103.3	1103.3	1099.6	1099.6
10°	1118.4	1114.6	1110.8	1103.3	1099.6	1099.6	1099.6	1095.8	1099.6	1099.6	1099.6
12.5°	1118.4	1118.4	1107.1	1099.6	1092.0	1092.0	1092.0	1092.0	1099.6	1103.3	1103.3
15°	1125.9	1122.1	1110.8	1095.8	1088.3	1088.3	1088.3	1092.0	1099.6	1107.1	1107.1
17.5°	1129.7	1122.1	1107.1	1092.0	1088.3	1088.3	1088.3	1092.0	1103.3	1110.8	1114.6
20°	1133.4	1129.7	1110.8	1095.8	1092.0	1092.0	1092.0	1092.0	1103.3	1114.6	1118.4
22.5°	1144.7	1141.0	1122.1	1110.8	1107.1	1110.8	1107.1	1107.1	1118.4	1133.4	1133.4
25°	1159.8	1152.3	1133.4	1125.9	1125.9	1133.4	1133.4	1125.9	1137.2	1148.5	1152.3
27.5°	1186.2	1178.6	1159.8	1152.3	1148.5	1148.5	1148.5	1148.5	1156.0	1174.9	1174.9
30°	1208.8	1205.0	1197.5	1197.5	1193.7	1186.2	1186.2	1193.7	1197.5	1205.0	1208.8
32.5°	1238.9	1231.3	1223.8	1223.8	1246.4	1269.0	1250.2	1220.0	1216.3	1220.0	1223.8
35°	1302.9	1295.4	1276.5	1265.2	1287.8	1310.4	1280.3	1261.5	1272.8	1284.1	1284.1
37.5°	1393.3	1389.5	1374.4	1351.8	1344.3	1348.1	1336.8	1351.8	1382.0	1404.6	1408.3
40°	1487.4	1483.6	1468.6	1457.3	1461.0	1479.9	1472.3	1457.3	1476.1	1491.2	1491.2
42.5°	1634.3	1619.2	1596.6	1566.5	1570.2	1585.3	1566.5	1581.5	1607.9	1634.3	1638.0
45°	1830.1	1815.0	1784.9	1758.5	1739.7	1747.2	1747.2	1773.6	1803.7	1833.8	1845.1
47.5°	2040.9	2037.2	2007.1	1984.5	1965.6	1976.9	1976.9	1976.9	2025.9	2056.0	2056.0
50°	2300.8	2289.5	2289.5	2270.6	2263.1	2266.9	2251.8	2266.9	2289.5	2297.0	2285.7
52.5°	2609.6	2598.3	2605.8	2613.3	2632.1	2658.5	2620.8	2617.1	2605.8	2594.5	2590.7
55°	2978.6	2989.9	3020.0	3069.0	3099.1	3151.8	3095.3	3027.5	2997.4	2967.3	2944.7
57.5°	3419.2	3438.0	3483.2	3599.9	3727.9	3776.9	3679.0	3554.7	3449.3	3362.7	3381.5
60°	3995.3	3984.0	4059.3	4217.5	4398.2	4496.1	4341.7	4138.4	3968.9	3927.5	3938.8
62.5°	4609.1	4631.7	4684.4	4895.3	5121.2	5226.6	5038.4	4737.1	4518.7	4405.7	4405.7
65°	4993.2	5008.2	5155.1	5452.6	5704.9	5848.0	5580.6	5143.8	4831.2	4643.0	4631.7
67.5°	5049.6	5064.7	5230.4	5610.7	6024.9	6224.5	5761.3	5192.7	4827.5	4597.8	4590.2
69°	4895.3	4906.6	5079.8	5478.9	5998.6	6288.5	5674.7	5034.6	4658.0	4435.9	4443.4
70°	4673.1	4718.3	4850.1	5256.8	5859.2	6232.0	5516.6	4857.6	4466.0	4289.0	4258.9
72.5°	3663.9	3694.0	3912.4	4417.0	5230.4	5655.9	4846.3	4112.0	3712.9	3528.4	3573.5
75°	2074.8	2067.3	2346.0	3069.0	4032.9	4530.0	3814.5	2959.7	2379.8	2157.7	2187.8
77.5°	790.8	824.7	1012.9	1574.0	2534.2	3095.3	2530.5	1581.5	1107.1	862.3	820.9
80°	256.1	271.1	357.7	572.4	1080.7	1747.2	1182.4	610.0	384.1	290.0	271.1
82.5°	101.7	113.0	135.6	192.0	365.3	659.0	399.2	222.2	165.7	135.6	124.3
85°	56.5	52.7	71.5	86.6	124.3	188.3	135.6	105.4	90.4	64.0	60.2
87.5°	18.8	18.8	30.1	30.1	33.9	30.1	33.9	37.7	37.7	22.6	18.8
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)