

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: P572895

Luminaire Tested: **ARCH-S-PA2-130-730-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572895  
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-PA2-130-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

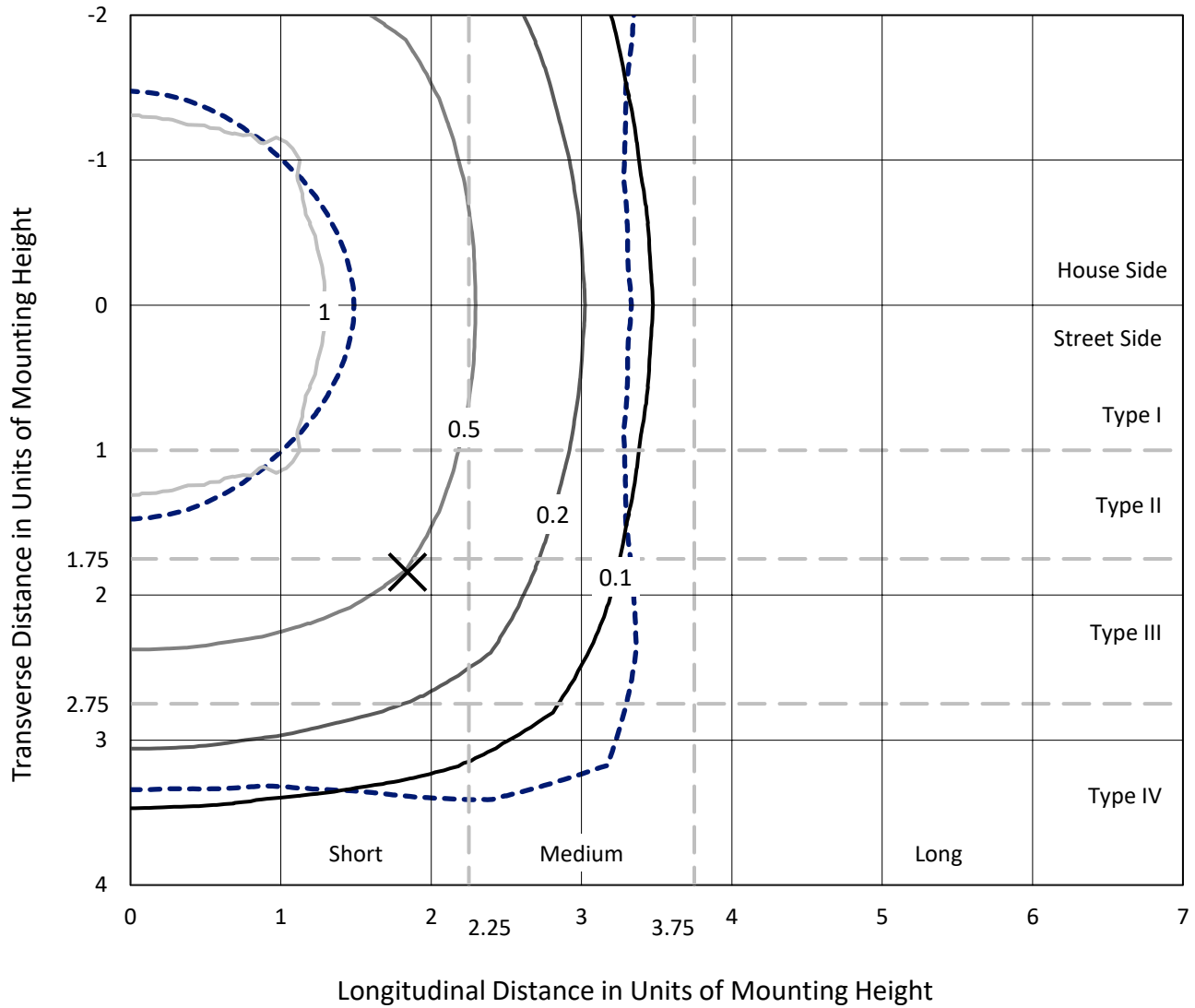
Lumens per Lamp: N/A  
Luminaire Lumens: 15232 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

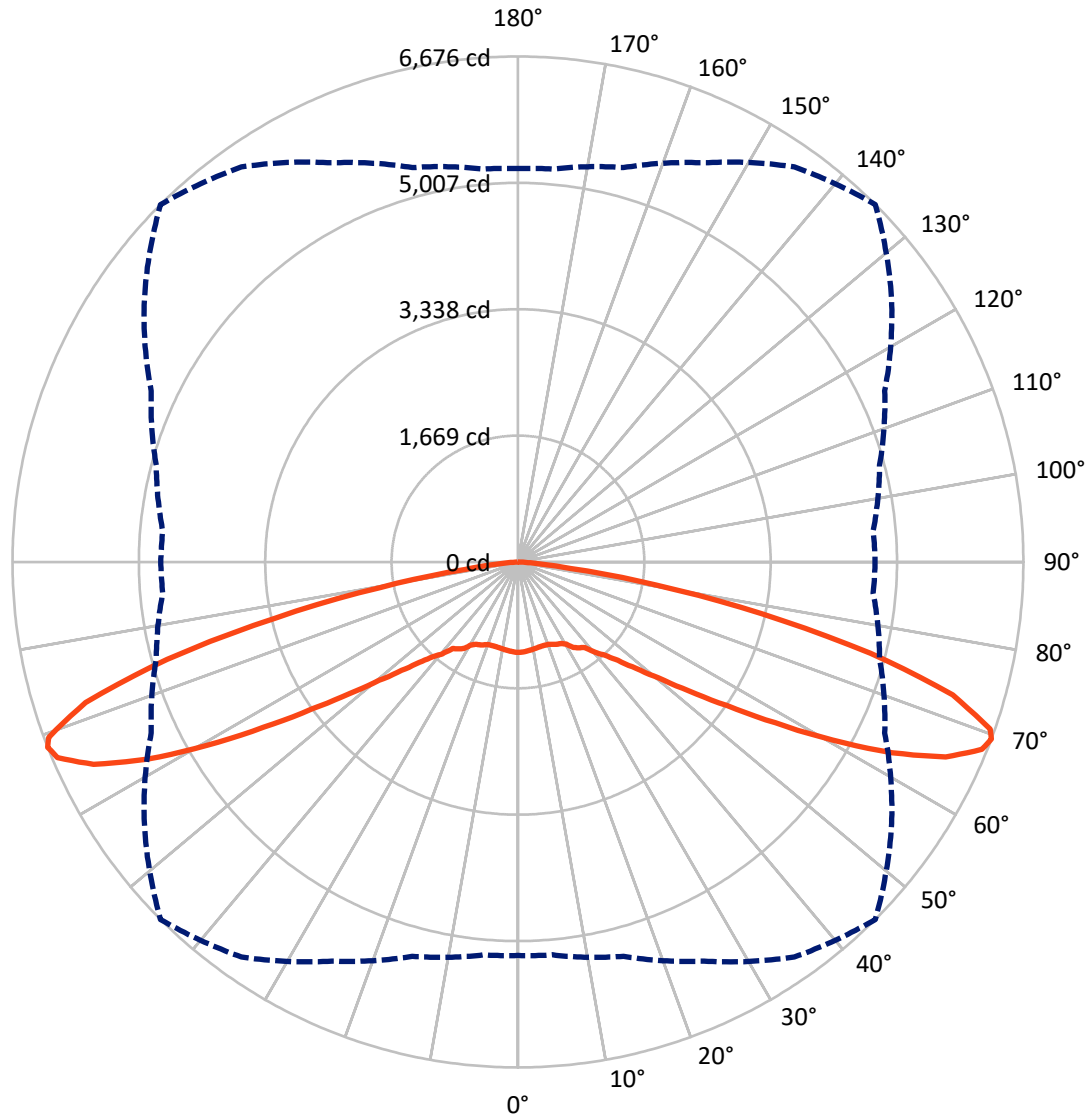
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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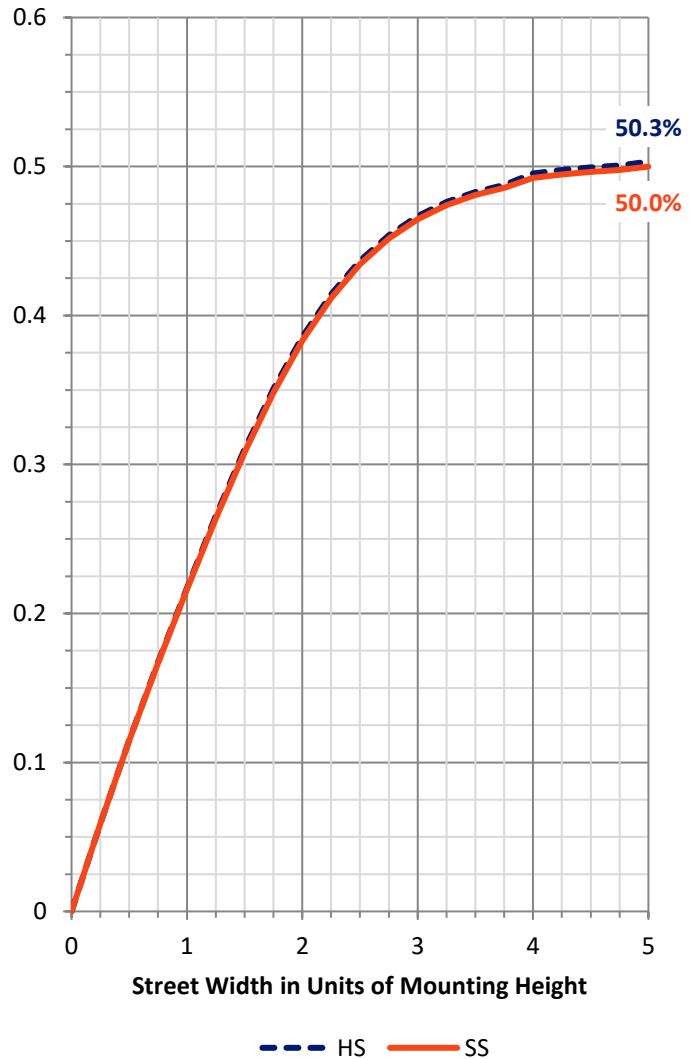
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7616.0	0.0	7616.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7616.0	0.0	7616.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15232.0	0.0	15232.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	0.7
10°-20°	331.1	2.2
20°-30°	561.4	3.7
30°-40°	872.9	5.7
40°-50°	1498.5	9.8
50°-60°	2981.4	19.6
60°-70°	5310.9	34.9
70°-80°	3344.7	22.0
80°-90°	218.4	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°	15232.0	100.0
0°-180°	15232.0	100.0



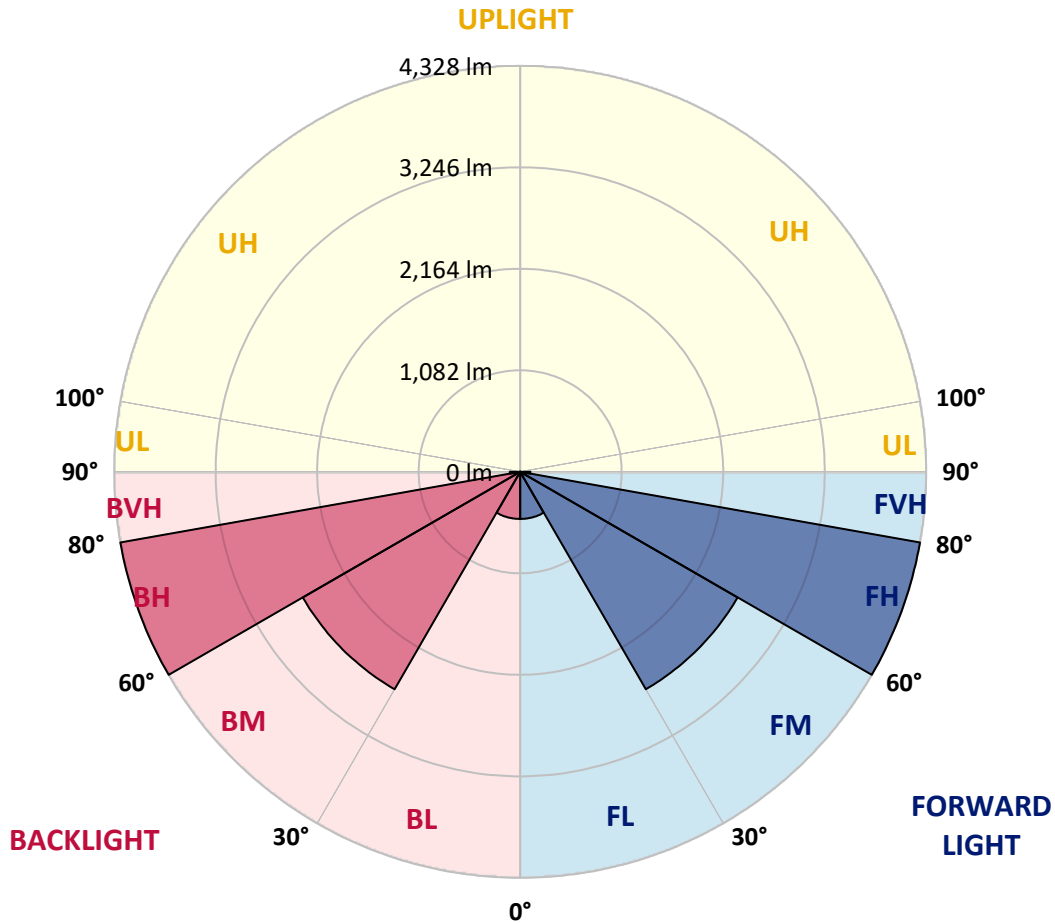
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.6	3.3			
FM (30°-60°)	2676.4	17.6			
FH (60°-80°)	4327.8	28.4			G2/5000
FVH (80°-90°)	109.2	0.7			G2/225
BL (0°-30°)	502.6	3.3	B2/1000		
BM (30°-60°)	2676.4	17.6	B3/5000		
BH (60°-80°)	4327.8	28.4	B4/5000		G2/5000
BVH (80°-90°)	109.2	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°	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3
2.5°	1203.3	1199.3	1199.3	1195.3	1191.3	1191.3	1191.3	1187.3	1191.3	1191.3	1191.3
5°	1199.3	1195.3	1191.3	1187.3	1187.3	1183.3	1187.3	1183.3	1183.3	1183.3	1183.3
7.5°	1187.3	1187.3	1179.3	1179.3	1175.3	1175.3	1171.3	1171.3	1171.3	1167.3	1167.3
10°	1187.3	1183.3	1179.3	1171.3	1167.3	1167.3	1167.3	1163.3	1167.3	1167.3	1167.3
12.5°	1187.3	1187.3	1175.3	1167.3	1159.3	1159.3	1159.3	1159.3	1167.3	1171.3	1171.3
15°	1195.3	1191.3	1179.3	1163.3	1155.3	1155.3	1155.3	1159.3	1167.3	1175.3	1175.3
17.5°	1199.3	1191.3	1175.3	1159.3	1155.3	1155.3	1155.3	1159.3	1171.3	1179.3	1183.3
20°	1203.3	1199.3	1179.3	1163.3	1159.3	1159.3	1159.3	1159.3	1171.3	1183.3	1187.3
22.5°	1215.3	1211.3	1191.3	1179.3	1175.3	1179.3	1175.3	1175.3	1187.3	1203.3	1203.3
25°	1231.3	1223.3	1203.3	1195.3	1195.3	1203.3	1203.3	1195.3	1207.3	1219.3	1223.3
27.5°	1259.2	1251.2	1231.3	1223.3	1219.3	1219.3	1219.3	1219.3	1227.3	1247.2	1247.2
30°	1283.2	1279.2	1271.2	1271.2	1267.2	1259.2	1259.2	1267.2	1271.2	1279.2	1283.2
32.5°	1315.2	1307.2	1299.2	1299.2	1323.2	1347.2	1327.2	1295.2	1291.2	1295.2	1299.2
35°	1383.2	1375.2	1355.2	1343.2	1367.2	1391.2	1359.2	1339.2	1351.2	1363.2	1363.2
37.5°	1479.1	1475.1	1459.1	1435.1	1427.1	1431.1	1419.1	1435.1	1467.1	1491.1	1495.1
40°	1579.0	1575.0	1559.1	1547.1	1551.1	1571.1	1563.1	1547.1	1567.1	1583.0	1583.0
42.5°	1735.0	1719.0	1695.0	1663.0	1667.0	1683.0	1663.0	1679.0	1707.0	1735.0	1739.0
45°	1942.8	1926.8	1894.9	1866.9	1846.9	1854.9	1854.9	1882.9	1914.8	1946.8	1958.8
47.5°	2166.7	2162.7	2130.7	2106.7	2086.7	2098.7	2098.7	2098.7	2150.7	2182.7	2182.7
50°	2442.5	2430.5	2430.5	2410.5	2402.6	2406.5	2390.6	2406.5	2430.5	2438.5	2426.5
52.5°	2770.3	2758.3	2766.3	2774.3	2794.3	2822.3	2782.3	2778.3	2766.3	2754.3	2750.3
55°	3162.1	3174.1	3206.1	3258.0	3290.0	3346.0	3286.0	3214.1	3182.1	3150.1	3126.1
57.5°	3629.8	3649.8	3697.8	3821.7	3957.6	4009.6	3905.6	3773.7	3661.8	3569.8	3589.8
60°	4241.4	4229.4	4309.4	4477.3	4669.2	4773.1	4609.2	4393.3	4213.5	4169.5	4181.5
62.5°	4893.0	4917.0	4973.0	5196.9	5436.7	5548.7	5348.8	5029.0	4797.1	4677.2	4677.2
65°	5300.8	5316.8	5472.7	5788.5	6056.3	6208.3	5924.4	5460.7	5128.9	4929.0	4917.0
67.5°	5360.8	5376.8	5552.6	5956.4	6396.1	6608.0	6116.3	5512.7	5124.9	4881.1	4873.1
69°	5196.9	5208.9	5392.7	5816.5	6368.2	6676.0	6024.4	5344.8	4945.0	4709.2	4717.2
70°	4961.0	5009.0	5148.9	5580.6	6220.2	6616.0	5856.5	5156.9	4741.1	4553.3	4521.3
72.5°	3889.7	3921.6	4153.5	4689.2	5552.6	6004.4	5144.9	4365.4	3941.6	3745.7	3793.7
75°	2202.7	2194.7	2490.5	3258.0	4281.4	4809.1	4049.6	3142.1	2526.5	2290.6	2322.6
77.5°	839.5	875.5	1075.4	1671.0	2690.4	3286.0	2686.4	1679.0	1175.3	915.4	871.5
80°	271.8	287.8	379.8	607.6	1147.3	1854.9	1255.2	647.6	407.8	307.8	287.8
82.5°	107.9	119.9	143.9	203.9	387.8	699.6	423.7	235.9	175.9	143.9	131.9
85°	60.0	56.0	76.0	91.9	131.9	199.9	143.9	111.9	95.9	68.0	64.0
87.5°	20.0	20.0	32.0	32.0	36.0	32.0	36.0	40.0	40.0	24.0	20.0
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)