

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: P572877

Luminaire Tested: **ARCH-S-PA2-130-722-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572877
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-PA2-130-722-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 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: 12295 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

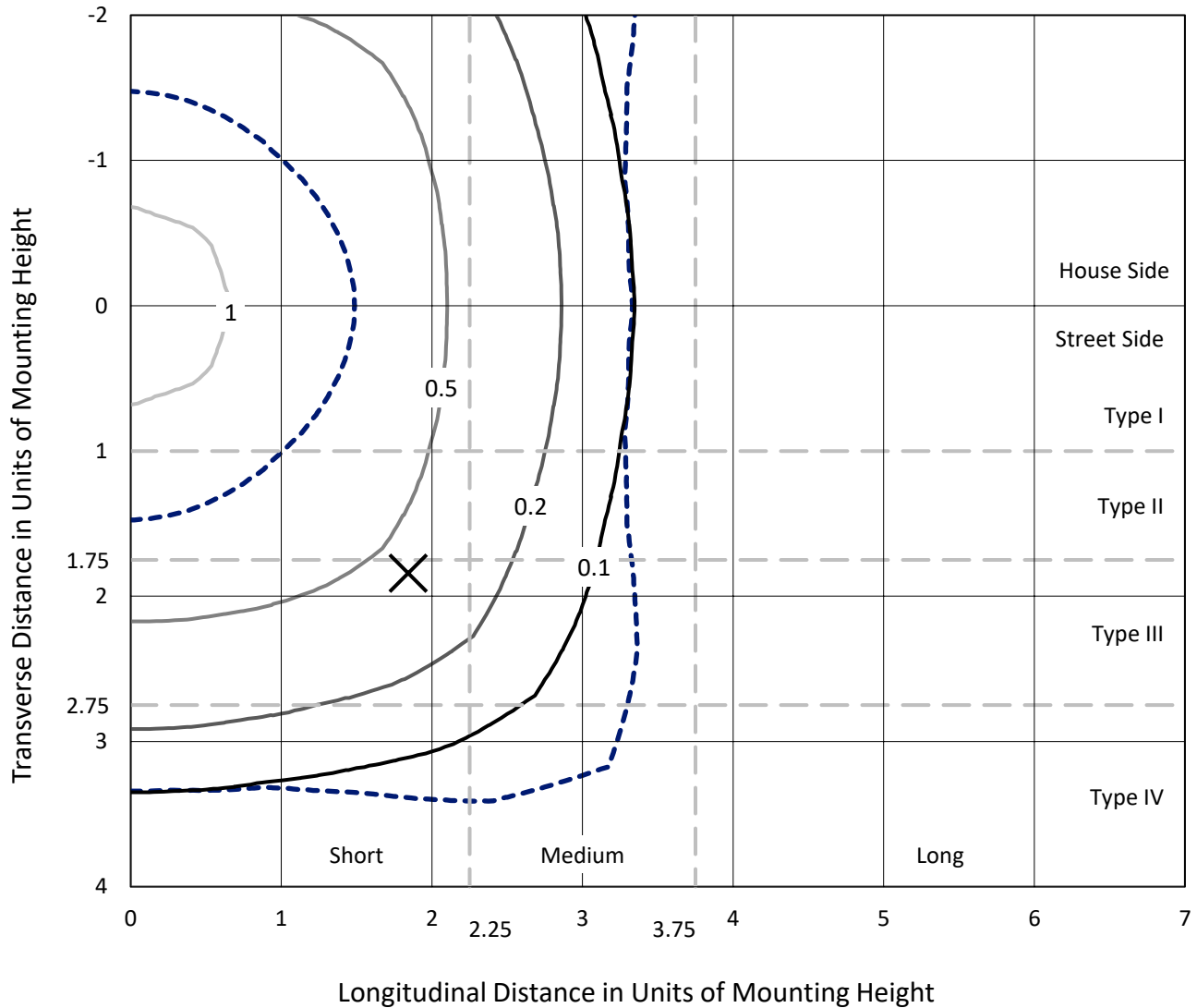
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

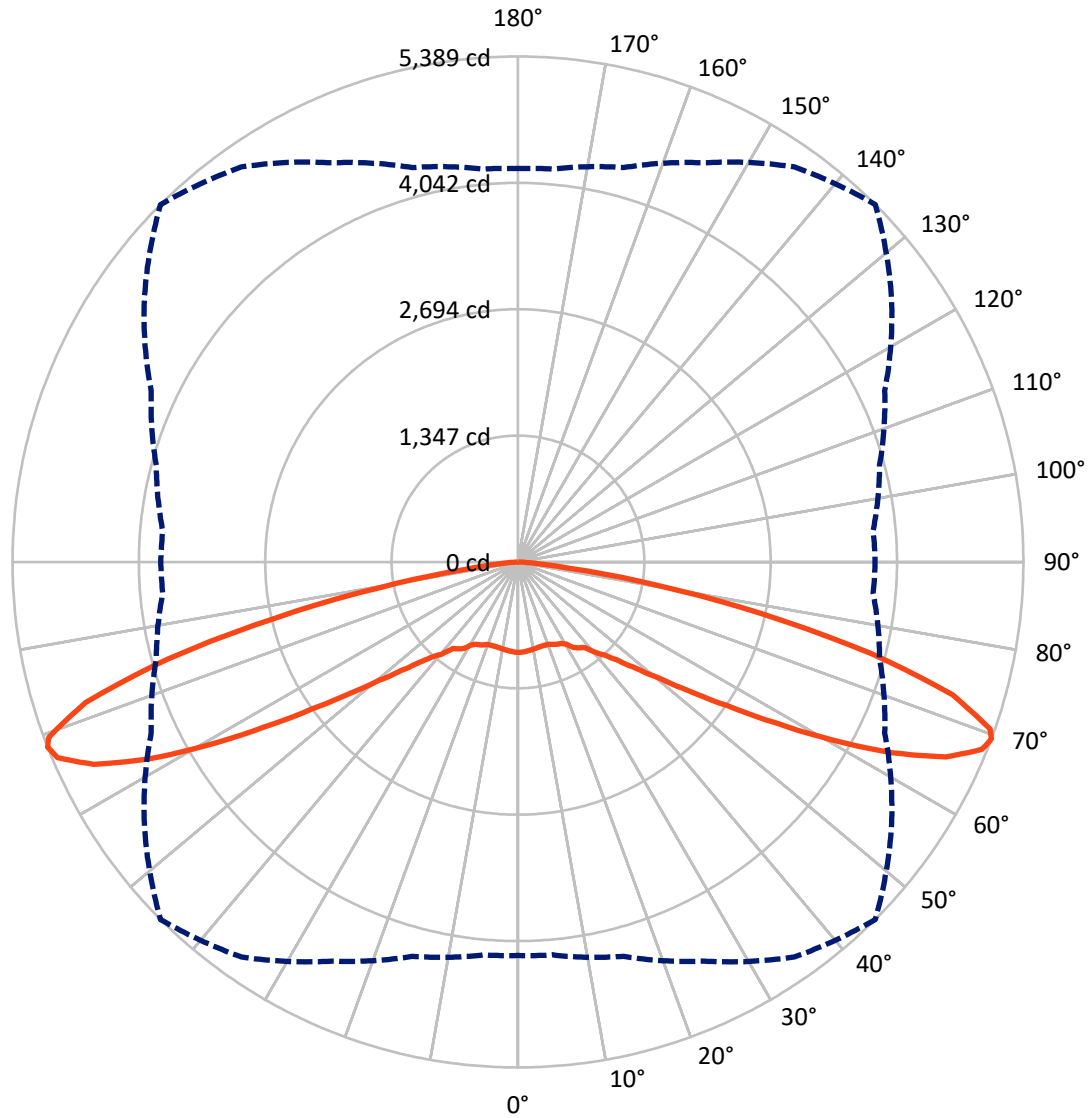
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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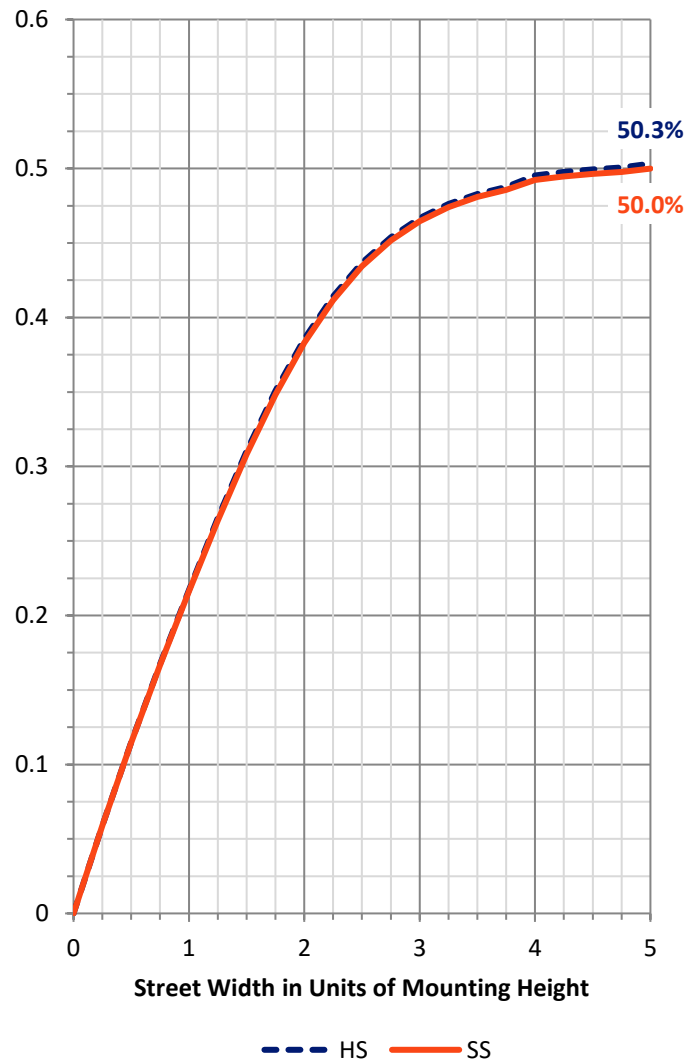
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6147.5	0.0	6147.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6147.5	0.0	6147.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12295.0	0.0	12295.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	0.7
10°-20°	267.2	2.2
20°-30°	453.2	3.7
30°-40°	704.6	5.7
40°-50°	1209.5	9.8
50°-60°	2406.5	19.6
60°-70°	4286.9	34.9
70°-80°	2699.8	22.0
80°-90°	176.3	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°	12295.0	100.0
0°-180°	12295.0	100.0



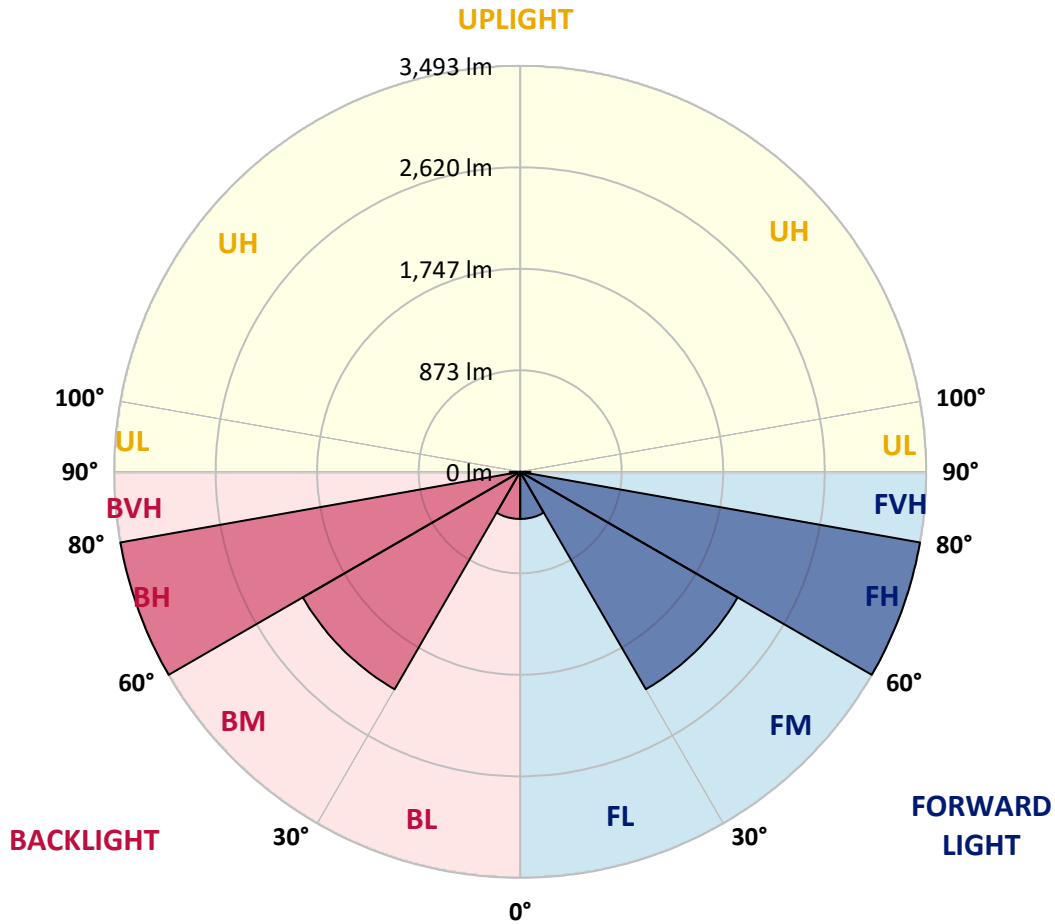
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.7	3.3			
FM (30°-60°)	2160.3	17.6			
FH (60°-80°)	3493.3	28.4			G2/5000
FVH (80°-90°)	88.2	0.7			G1/100
BL (0°-30°)	405.7	3.3	B1/500		
BM (30°-60°)	2160.3	17.6	B2/2500		
BH (60°-80°)	3493.3	28.4	B4/5000		G2/5000
BVH (80°-90°)	88.2	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°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	971.3	968.0	968.0	964.8	961.6	961.6	961.6	958.4	961.6	961.6	961.6
5°	968.0	964.8	961.6	958.4	958.4	955.1	958.4	955.1	955.1	955.1	955.1
7.5°	958.4	958.4	951.9	951.9	948.7	948.7	945.4	945.4	945.4	942.2	942.2
10°	958.4	955.1	951.9	945.4	942.2	942.2	942.2	939.0	942.2	942.2	942.2
12.5°	958.4	958.4	948.7	942.2	935.8	935.8	935.8	935.8	942.2	945.4	945.4
15°	964.8	961.6	951.9	939.0	932.5	932.5	932.5	935.8	942.2	948.7	948.7
17.5°	968.0	961.6	948.7	935.8	932.5	932.5	932.5	935.8	945.4	951.9	955.1
20°	971.3	968.0	951.9	939.0	935.8	935.8	935.8	935.8	945.4	955.1	958.4
22.5°	980.9	977.7	961.6	951.9	948.7	951.9	948.7	948.7	958.4	971.3	971.3
25°	993.8	987.4	971.3	964.8	964.8	971.3	971.3	964.8	974.5	984.2	987.4
27.5°	1016.4	1010.0	993.8	987.4	984.2	984.2	984.2	984.2	990.6	1006.8	1006.8
30°	1035.8	1032.6	1026.1	1026.1	1022.9	1016.4	1016.4	1022.9	1026.1	1032.6	1035.8
32.5°	1061.6	1055.2	1048.7	1048.7	1068.1	1087.4	1071.3	1045.5	1042.3	1045.5	1048.7
35°	1116.5	1110.0	1093.9	1084.2	1103.6	1122.9	1097.1	1081.0	1090.7	1100.3	1100.3
37.5°	1193.9	1190.7	1177.8	1158.4	1152.0	1155.2	1145.5	1158.4	1184.2	1203.6	1206.8
40°	1274.6	1271.4	1258.4	1248.8	1252.0	1268.1	1261.7	1248.8	1264.9	1277.8	1277.8
42.5°	1400.4	1387.5	1368.2	1342.3	1345.6	1358.5	1342.3	1355.2	1377.8	1400.4	1403.7
45°	1568.2	1555.3	1529.5	1506.9	1490.8	1497.2	1497.2	1519.8	1545.6	1571.4	1581.1
47.5°	1748.9	1745.7	1719.9	1700.5	1684.4	1694.1	1694.1	1694.1	1736.0	1761.8	1761.8
50°	1971.6	1961.9	1961.9	1945.7	1939.3	1942.5	1929.6	1942.5	1961.9	1968.3	1958.7
52.5°	2236.2	2226.5	2232.9	2239.4	2255.5	2278.1	2245.8	2242.6	2232.9	2223.3	2220.0
55°	2552.4	2562.1	2587.9	2629.8	2655.6	2700.8	2652.4	2594.3	2568.5	2542.7	2523.3
57.5°	2929.9	2946.1	2984.8	3084.8	3194.5	3236.5	3152.6	3046.1	2955.7	2881.5	2897.6
60°	3423.6	3413.9	3478.5	3614.0	3768.9	3852.8	3720.5	3546.2	3401.0	3365.5	3375.2
62.5°	3949.6	3968.9	4014.1	4194.8	4388.4	4478.8	4317.4	4059.3	3872.1	3775.3	3775.3
65°	4278.7	4291.6	4417.5	4672.4	4888.6	5011.2	4782.1	4407.8	4140.0	3978.6	3968.9
67.5°	4327.1	4340.0	4482.0	4807.9	5162.9	5333.9	4937.0	4449.7	4136.7	3939.9	3933.4
69°	4194.8	4204.5	4352.9	4695.0	5140.3	5388.7	4862.8	4314.2	3991.5	3801.1	3807.6
70°	4004.4	4043.2	4156.1	4504.6	5020.9	5340.3	4727.2	4162.5	3827.0	3675.3	3649.5
72.5°	3139.7	3165.5	3352.6	3785.0	4482.0	4846.6	4152.9	3523.6	3181.6	3023.5	3062.2
75°	1778.0	1771.5	2010.3	2629.8	3455.9	3881.8	3268.7	2536.3	2039.3	1848.9	1874.8
77.5°	677.6	706.7	868.0	1348.8	2171.6	2652.4	2168.4	1355.2	948.7	738.9	703.4
80°	219.4	232.3	306.5	490.5	926.1	1497.2	1013.2	522.7	329.1	248.5	232.3
82.5°	87.1	96.8	116.2	164.6	313.0	564.7	342.0	190.4	142.0	116.2	106.5
85°	48.4	45.2	61.3	74.2	106.5	161.3	116.2	90.3	77.4	54.9	51.6
87.5°	16.1	16.1	25.8	25.8	29.0	25.8	29.0	32.3	32.3	19.4	16.1
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)