

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: P572814

Luminaire Tested: **ARCH-S-PA2-120-730-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572814
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-PA2-120-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14688 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

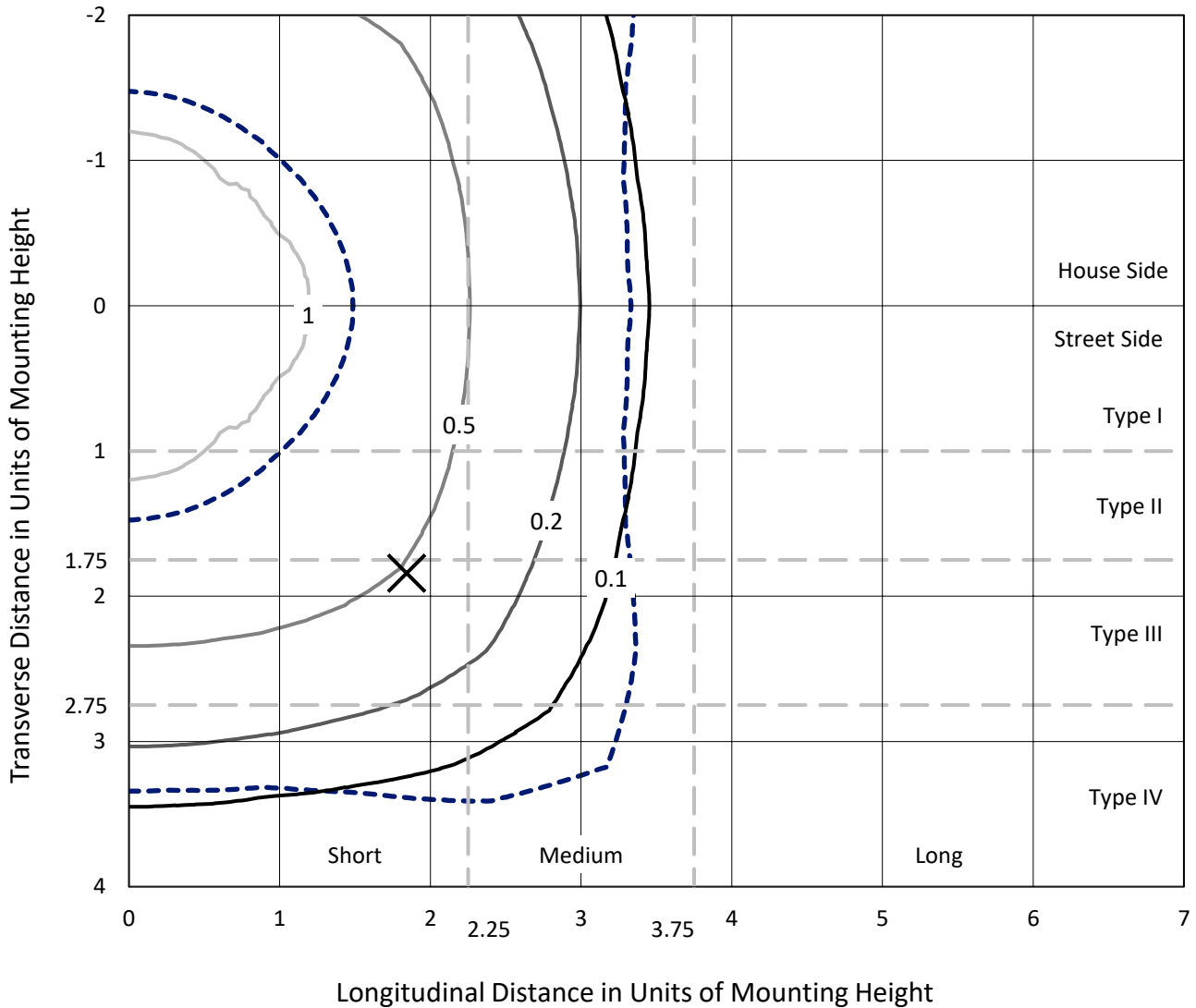
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

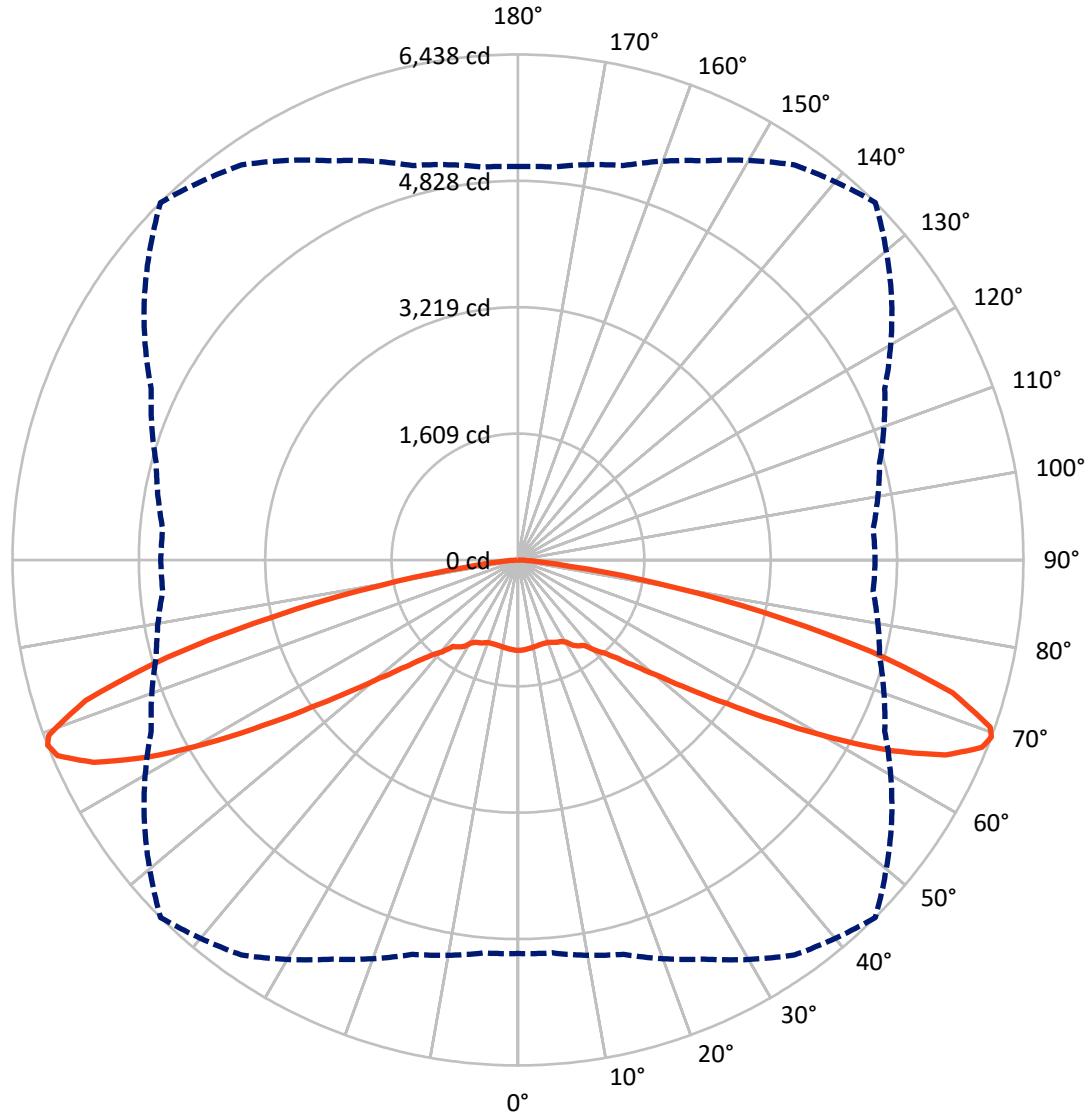
✕ Max cd
 - - - 1/2 Max cd



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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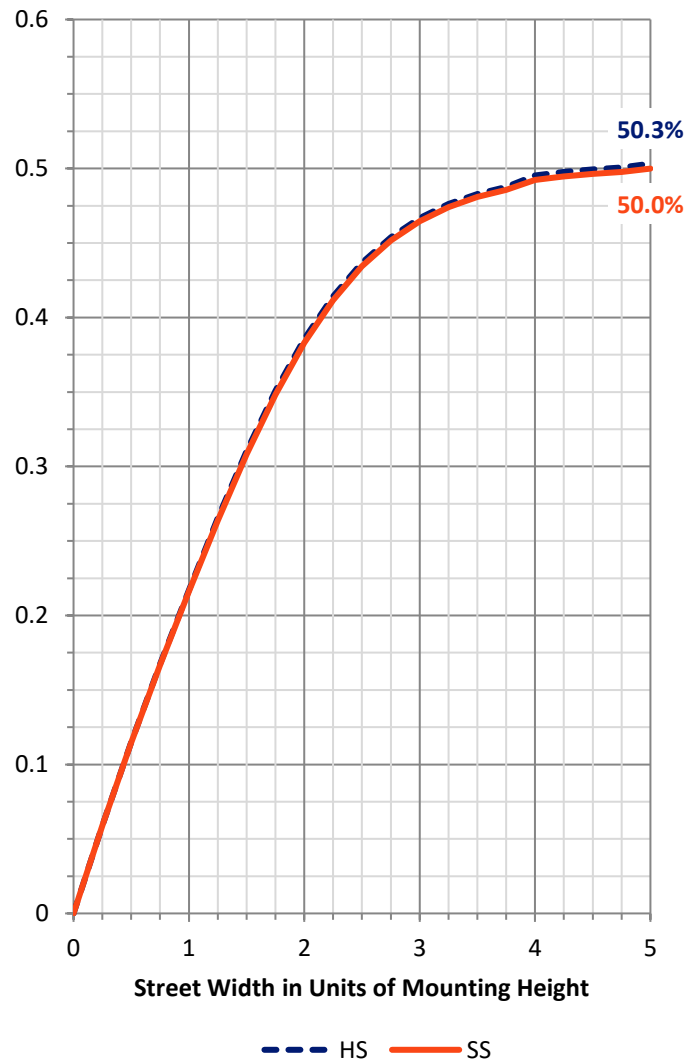
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7344.0	0.0	7344.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7344.0	0.0	7344.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14688.0	0.0	14688.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	0.7
10°-20°	319.3	2.2
20°-30°	541.4	3.7
30°-40°	841.7	5.7
40°-50°	1445.0	9.8
50°-60°	2874.9	19.6
60°-70°	5121.2	34.9
70°-80°	3225.3	22.0
80°-90°	210.6	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°	14688.0	100.0
0°-180°	14688.0	100.0

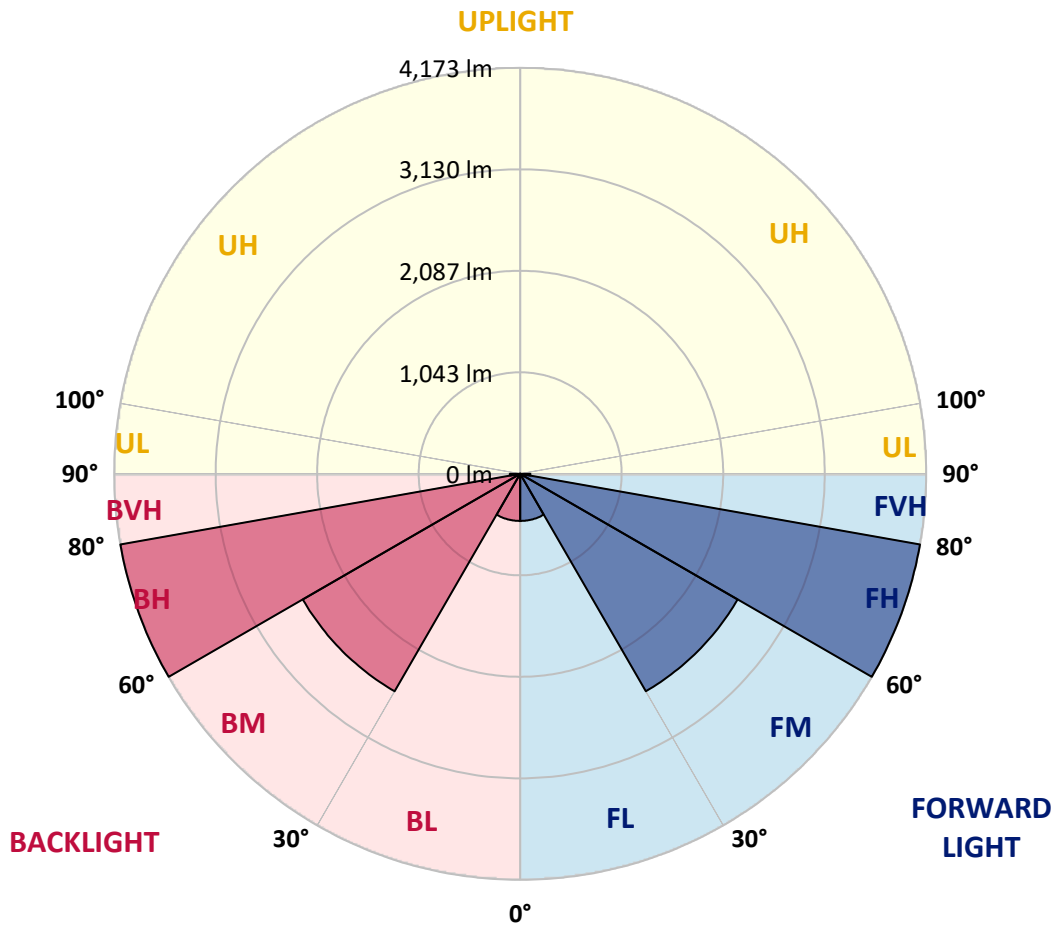


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.6	3.3			
FM (30°-60°)	2580.8	17.6			
FH (60°-80°)	4173.2	28.4			G2/5000
FVH (80°-90°)	105.3	0.7			G2/225
BL (0°-30°)	484.6	3.3	B1/500		
BM (30°-60°)	2580.8	17.6	B3/5000		
BH (60°-80°)	4173.2	28.4	B4/5000		G2/5000
BVH (80°-90°)	105.3	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°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6
2.5°	1160.3	1156.4	1156.4	1152.6	1148.7	1148.7	1148.7	1144.9	1148.7	1148.7	1148.7
5°	1156.4	1152.6	1148.7	1144.9	1144.9	1141.0	1144.9	1141.0	1141.0	1141.0	1141.0
7.5°	1144.9	1144.9	1137.2	1137.2	1133.3	1133.3	1129.5	1129.5	1129.5	1125.6	1125.6
10°	1144.9	1141.0	1137.2	1129.5	1125.6	1125.6	1125.6	1121.8	1125.6	1125.6	1125.6
12.5°	1144.9	1144.9	1133.3	1125.6	1117.9	1117.9	1117.9	1117.9	1125.6	1129.5	1129.5
15°	1152.6	1148.7	1137.2	1121.8	1114.0	1114.0	1114.0	1117.9	1125.6	1133.3	1133.3
17.5°	1156.4	1148.7	1133.3	1117.9	1114.0	1114.0	1114.0	1117.9	1129.5	1137.2	1141.0
20°	1160.3	1156.4	1137.2	1121.8	1117.9	1117.9	1117.9	1117.9	1129.5	1141.0	1144.9
22.5°	1171.9	1168.0	1148.7	1137.2	1133.3	1137.2	1133.3	1133.3	1144.9	1160.3	1160.3
25°	1187.3	1179.6	1160.3	1152.6	1152.6	1160.3	1160.3	1152.6	1164.2	1175.7	1179.6
27.5°	1214.3	1206.6	1187.3	1179.6	1175.7	1175.7	1175.7	1175.7	1183.4	1202.7	1202.7
30°	1237.4	1233.5	1225.8	1225.8	1222.0	1214.3	1214.3	1222.0	1225.8	1233.5	1237.4
32.5°	1268.2	1260.5	1252.8	1252.8	1275.9	1299.1	1279.8	1249.0	1245.1	1249.0	1252.8
35°	1333.8	1326.1	1306.8	1295.2	1318.3	1341.5	1310.6	1291.4	1302.9	1314.5	1314.5
37.5°	1426.3	1422.4	1407.0	1383.9	1376.2	1380.0	1368.5	1383.9	1414.7	1437.8	1441.7
40°	1522.7	1518.8	1503.4	1491.8	1495.7	1514.9	1507.2	1491.8	1511.1	1526.5	1526.5
42.5°	1673.0	1657.6	1634.4	1603.6	1607.5	1622.9	1603.6	1619.0	1646.0	1673.0	1676.8
45°	1873.4	1858.0	1827.2	1800.2	1780.9	1788.6	1788.6	1815.6	1846.5	1877.3	1888.9
47.5°	2089.3	2085.5	2054.6	2031.5	2012.2	2023.8	2023.8	2023.8	2073.9	2104.7	2104.7
50°	2355.3	2343.7	2343.7	2324.5	2316.7	2320.6	2305.2	2320.6	2343.7	2351.4	2339.9
52.5°	2671.4	2659.8	2667.5	2675.2	2694.5	2721.5	2683.0	2679.1	2667.5	2656.0	2652.1
55°	3049.2	3060.7	3091.6	3141.7	3172.5	3226.5	3168.7	3099.3	3068.4	3037.6	3014.5
57.5°	3500.2	3519.4	3565.7	3685.2	3816.3	3866.4	3766.2	3638.9	3531.0	3442.4	3461.6
60°	4090.0	4078.4	4155.5	4317.4	4502.4	4602.7	4444.6	4236.4	4063.0	4020.6	4032.1
62.5°	4718.3	4741.4	4795.4	5011.3	5242.6	5350.5	5157.7	4849.4	4625.8	4510.1	4510.1
65°	5111.5	5126.9	5277.2	5581.8	5840.0	5986.5	5712.8	5265.7	4945.7	4753.0	4741.4
67.5°	5169.3	5184.7	5354.3	5743.7	6167.7	6372.0	5897.9	5315.8	4941.9	4706.7	4699.0
69°	5011.3	5022.8	5200.1	5608.8	6140.7	6437.5	5809.2	5153.9	4768.4	4541.0	4548.7
70°	4783.8	4830.1	4965.0	5381.3	5998.1	6379.7	5647.3	4972.7	4571.8	4390.6	4359.8
72.5°	3750.7	3781.6	4005.2	4521.7	5354.3	5789.9	4961.1	4209.5	3800.8	3612.0	3658.2
75°	2124.0	2116.3	2401.6	3141.7	4128.5	4637.3	3904.9	3029.9	2436.2	2208.8	2239.6
77.5°	809.5	844.2	1036.9	1611.3	2594.3	3168.7	2590.4	1619.0	1133.3	882.8	840.3
80°	262.1	277.5	366.2	585.9	1106.3	1788.6	1210.4	624.5	393.2	296.8	277.5
82.5°	104.1	115.6	138.8	196.6	373.9	674.6	408.6	227.4	169.6	138.8	127.2
85°	57.8	54.0	73.2	88.7	127.2	192.7	138.8	107.9	92.5	65.5	61.7
87.5°	19.3	19.3	30.8	30.8	34.7	30.8	34.7	38.5	38.5	23.1	19.3
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)