

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: P398021

Luminaire Tested: **ARCH-S-PA1-70-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-70-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8178 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

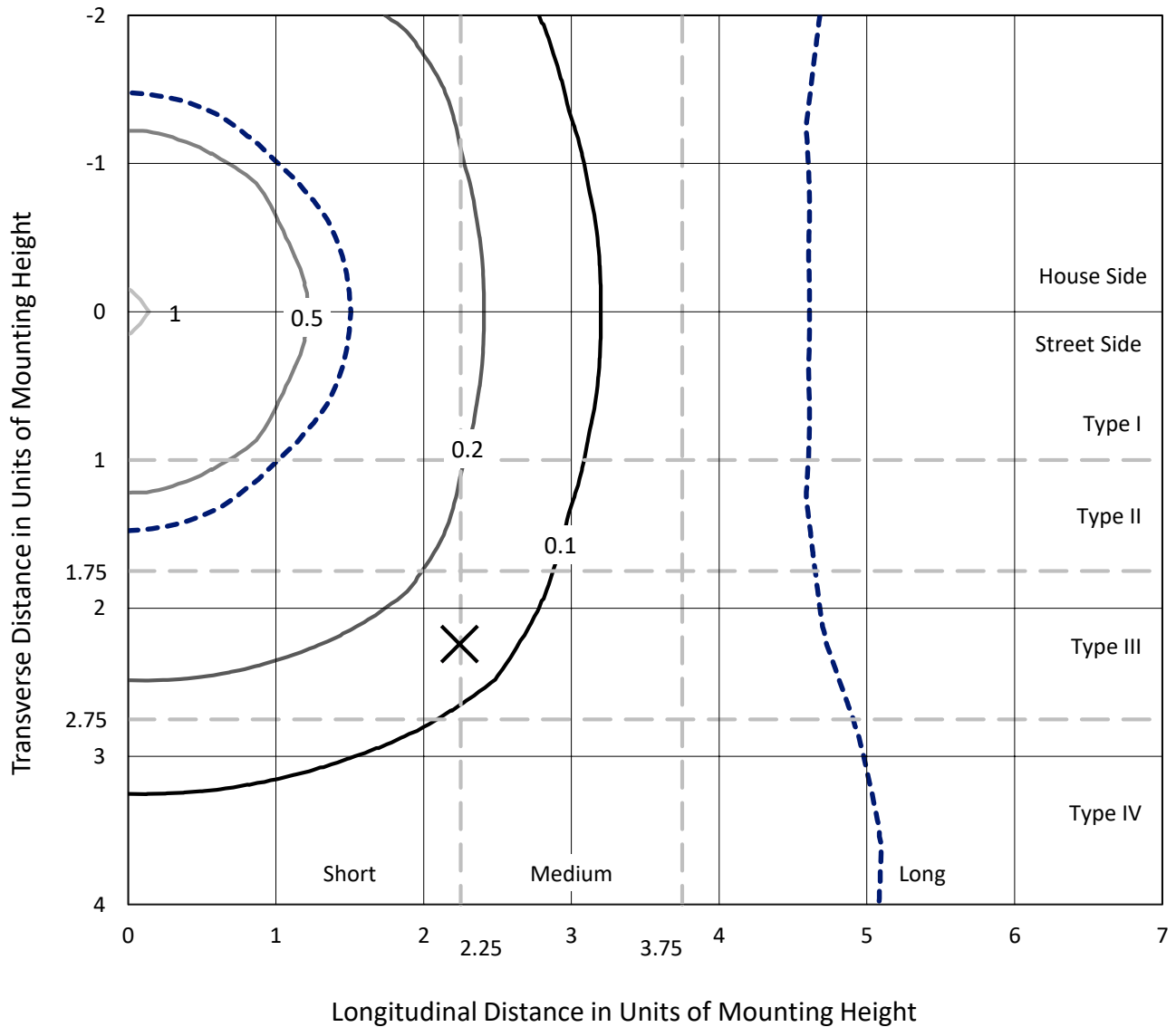
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

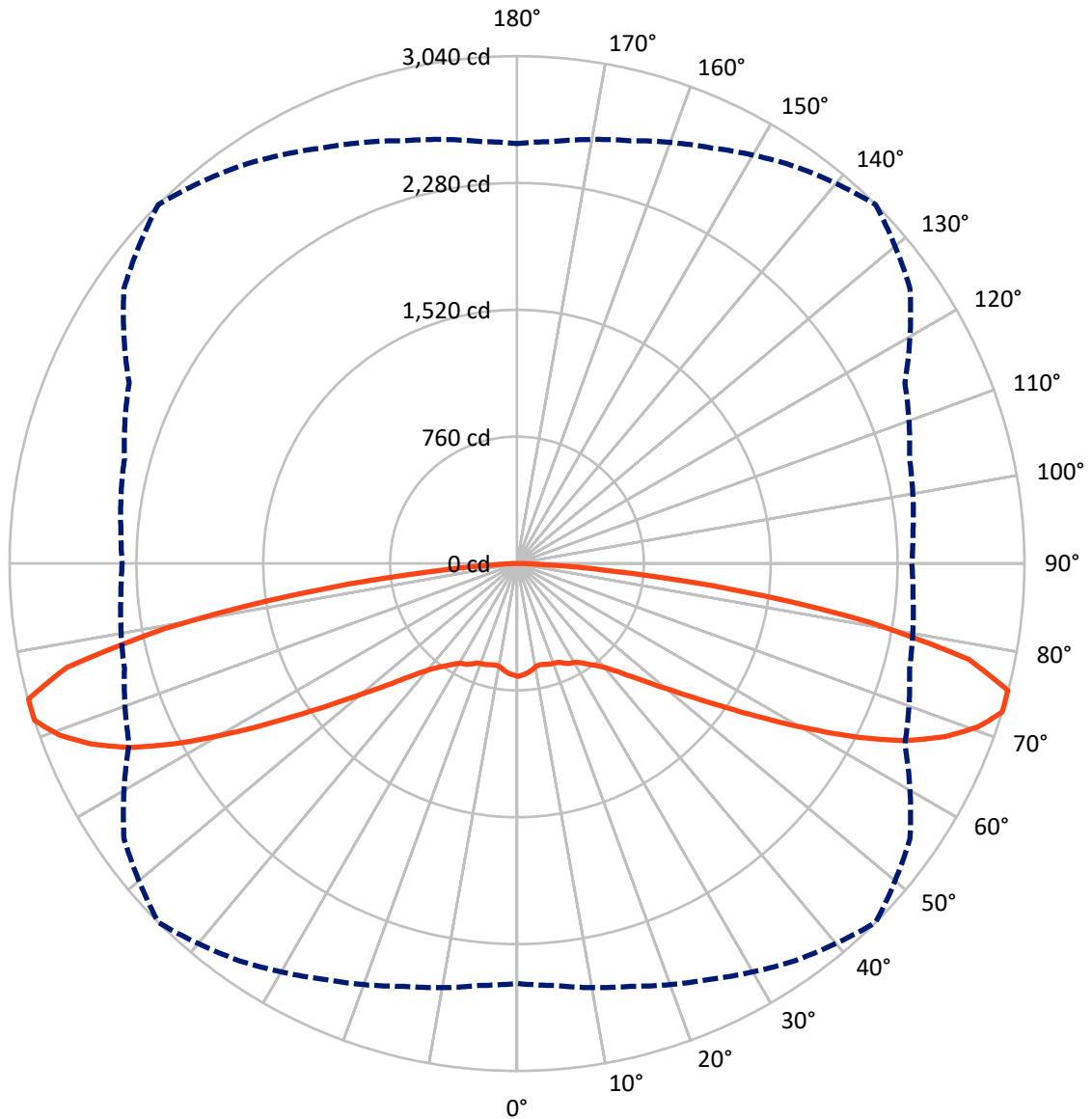
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4089.0	0.0	4089.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4089.0	0.0	4089.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8178.0	0.0	8178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	0.8
10°-20°	180.1	2.2
20°-30°	306.1	3.7
30°-40°	466.8	5.7
40°-50°	768.7	9.4
50°-60°	1342.4	16.4
60°-70°	2250.5	27.5
70°-80°	2408.5	29.5
80°-90°	392.8	4.8
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°	8178.0	100.0
0°-180°	8178.0	100.0



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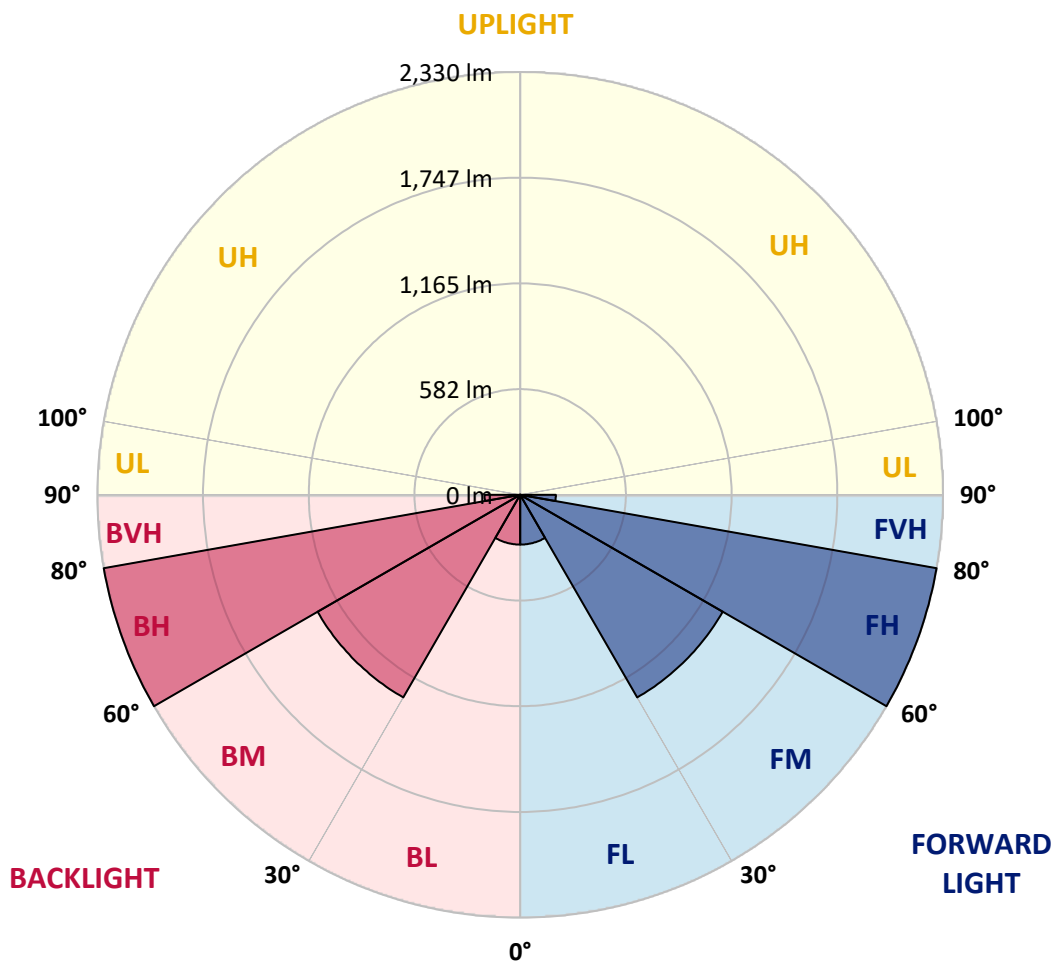
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.1	3.4			
FM	(30°-60°)	1289.0	15.8			
FH	(60°-80°)	2329.5	28.5			G2/5000
FVH	(80°-90°)	196.4	2.4			G2/225
BL	(0°-30°)	274.1	3.4	B1/500		
BM	(30°-60°)	1289.0	15.8	B2/2500		
BH	(60°-80°)	2329.5	28.5	B3/2500		G2/5000
BVH	(80°-90°)	196.4	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	672.6	672.6	672.6	671.5	669.4	668.4	666.3	667.3	667.3	667.3	667.3
5°	664.2	664.2	663.2	662.1	660.0	659.0	656.9	659.0	659.0	659.0	659.0
7.5°	648.5	649.6	649.6	648.5	645.4	644.4	641.2	642.3	642.3	643.3	642.3
10°	640.2	640.2	639.1	633.9	628.7	626.6	625.6	628.7	631.8	635.0	635.0
12.5°	640.2	640.2	638.1	629.7	622.4	622.4	622.4	626.6	632.9	639.1	640.2
15°	643.3	643.3	639.1	629.7	625.6	626.6	626.6	630.8	638.1	646.5	647.5
17.5°	645.4	645.4	640.2	630.8	630.8	633.9	631.8	635.0	642.3	651.7	652.7
20°	648.5	648.5	641.2	633.9	633.9	637.1	637.1	640.2	646.5	655.9	656.9
22.5°	654.8	653.8	646.5	640.2	640.2	642.3	644.4	648.5	653.8	662.1	664.2
25°	662.1	662.1	655.9	654.8	656.9	662.1	661.1	660.0	662.1	669.4	672.6
27.5°	666.3	666.3	662.1	665.3	673.6	677.8	672.6	668.4	668.4	675.7	676.7
30°	679.9	678.8	674.6	676.7	684.0	686.1	683.0	677.8	680.9	689.3	690.3
32.5°	702.8	702.8	696.6	696.6	701.8	710.2	699.7	696.6	700.8	710.2	711.2
35°	738.4	738.4	730.0	725.8	730.0	741.5	725.8	724.8	732.1	742.5	743.6
37.5°	783.3	783.3	778.0	767.6	768.6	776.0	762.4	761.3	774.9	786.4	786.4
40°	839.7	842.8	837.6	825.0	820.9	821.9	811.5	812.5	828.2	841.7	841.7
42.5°	909.6	911.7	903.4	894.0	888.7	885.6	875.2	877.3	896.1	913.8	913.8
45°	994.2	995.3	986.9	975.4	969.2	967.1	956.6	961.8	982.7	1001.5	1000.5
47.5°	1089.3	1090.3	1081.9	1070.5	1066.3	1069.4	1059.0	1059.0	1077.8	1093.4	1091.3
50°	1196.8	1198.9	1189.5	1184.3	1181.2	1189.5	1177.0	1165.5	1178.0	1193.7	1191.6
52.5°	1315.9	1321.1	1314.8	1316.9	1328.4	1338.9	1318.0	1292.9	1299.2	1309.6	1306.5
55°	1460.0	1466.3	1468.4	1475.7	1506.0	1523.7	1489.2	1447.5	1444.3	1445.4	1440.2
57.5°	1621.9	1626.1	1639.6	1656.3	1719.0	1747.2	1692.9	1620.8	1597.9	1584.3	1581.1
60°	1784.8	1792.1	1825.5	1860.0	1956.1	2007.2	1923.7	1802.5	1753.5	1728.4	1723.2
62.5°	1948.8	1963.4	2017.7	2076.2	2216.1	2292.3	2163.9	1988.4	1917.4	1886.1	1877.7
65°	2138.8	2156.6	2222.4	2296.5	2452.1	2559.7	2404.1	2180.6	2104.4	2062.6	2052.1
67.5°	2361.3	2380.1	2433.3	2515.8	2663.1	2768.6	2630.7	2376.9	2277.7	2224.5	2216.1
70°	2544.0	2560.7	2618.2	2701.7	2811.4	2931.5	2799.9	2533.6	2443.8	2406.2	2401.0
72.5°	2515.8	2537.8	2622.4	2747.7	2904.3	3040.1	2874.1	2563.9	2434.4	2382.2	2365.5
75°	2197.3	2221.3	2321.6	2548.2	2834.4	3037.0	2766.5	2362.3	2209.8	2166.0	2157.6
77.5°	1454.8	1477.8	1646.9	2004.1	2475.1	2767.5	2441.7	1979.0	1733.6	1628.1	1621.9
80°	588.0	617.2	779.1	1158.2	1754.5	2151.4	1810.9	1266.8	854.3	689.3	655.9
82.5°	136.8	162.9	237.1	427.1	898.1	1339.9	976.5	473.1	274.7	195.3	175.5
85°	57.4	58.5	101.3	138.9	280.9	541.0	319.6	172.3	139.9	102.3	100.3
87.5°	21.9	23.0	49.1	58.5	89.8	102.3	108.6	88.8	82.5	51.2	49.1
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)