

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: P572652

Luminaire Tested: **ARCH-S-PA2-100-730-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572652
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-PA2-100-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 13067 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

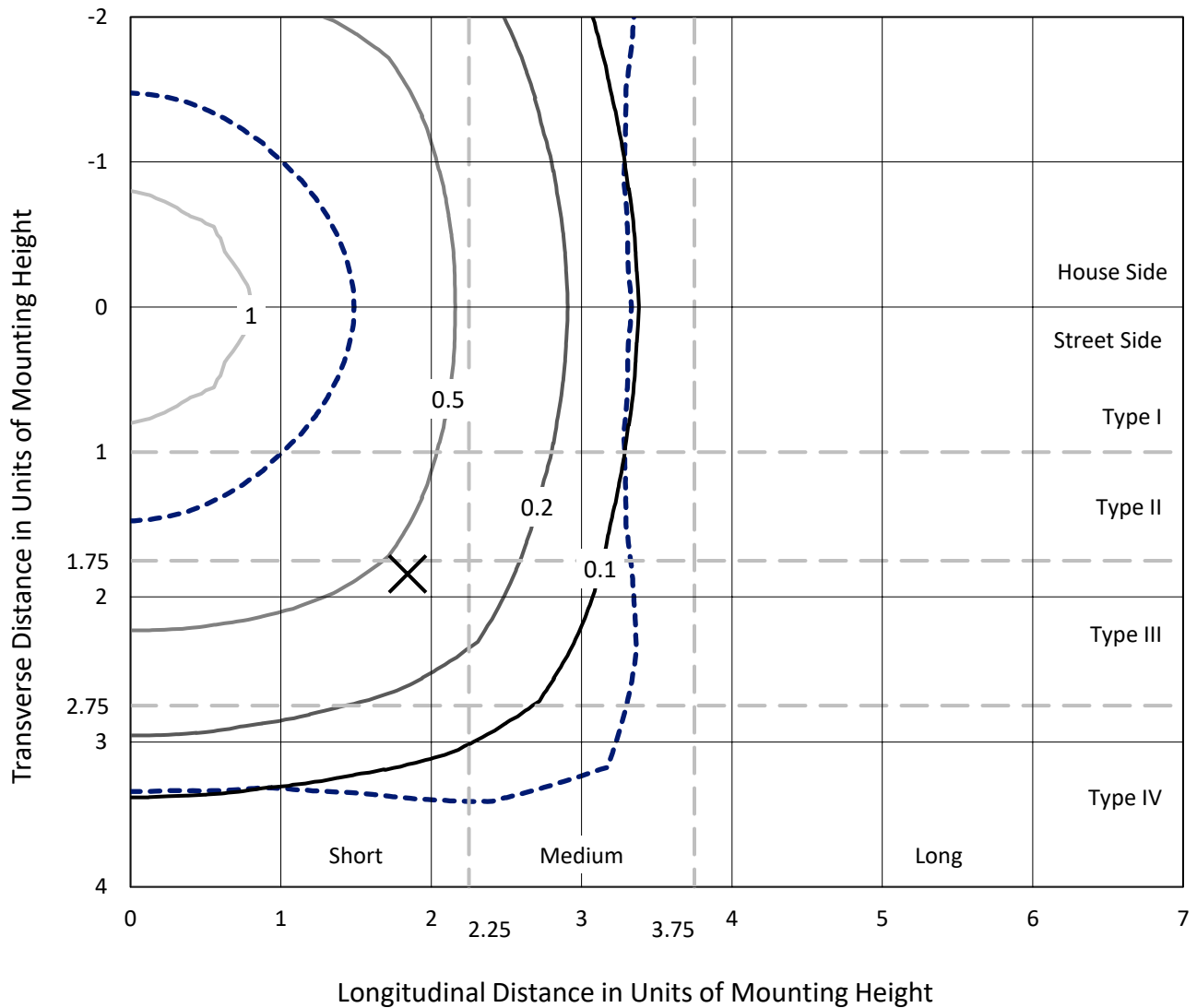
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

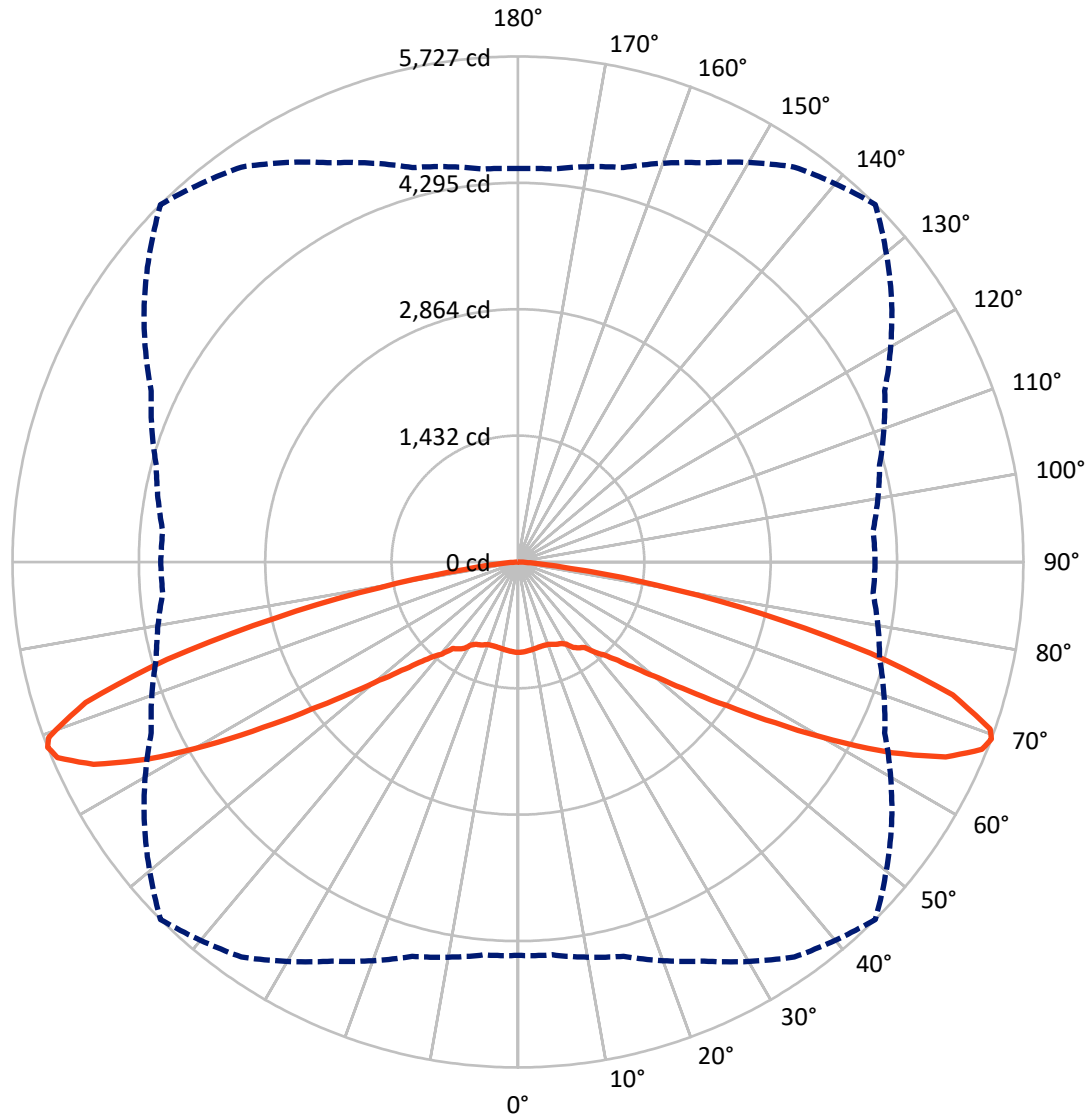
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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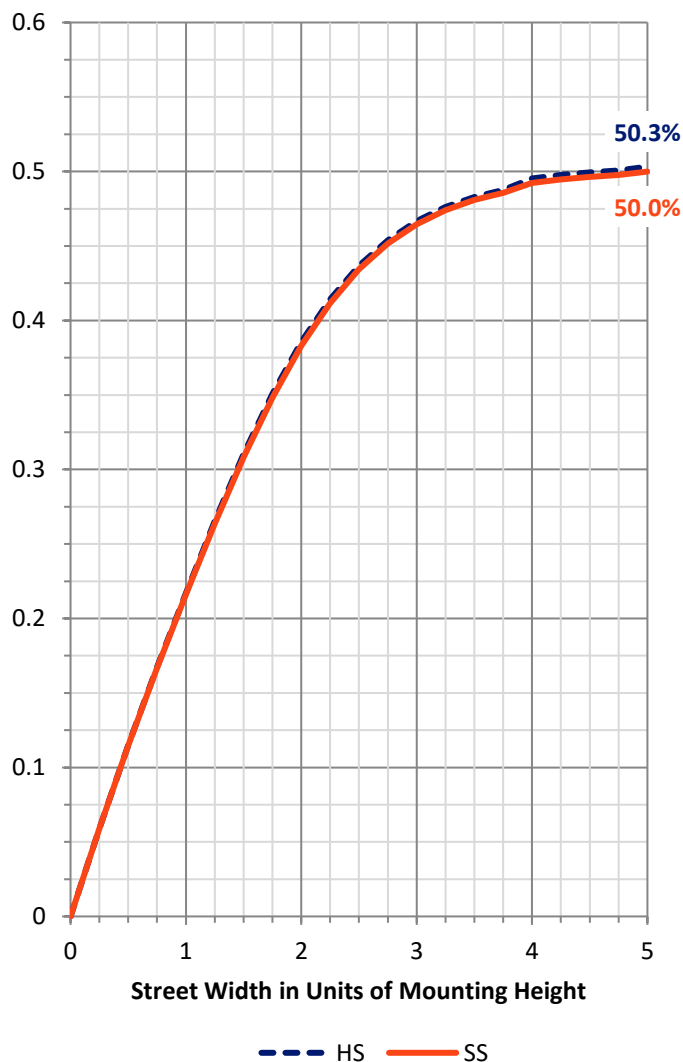
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6533.5	0.0	6533.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6533.5	0.0	6533.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13067.0	0.0	13067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	0.7
10°-20°	284.0	2.2
20°-30°	481.6	3.7
30°-40°	748.8	5.7
40°-50°	1285.5	9.8
50°-60°	2557.6	19.6
60°-70°	4556.0	34.9
70°-80°	2869.3	22.0
80°-90°	187.4	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°	13067.0	100.0
0°-180°	13067.0	100.0

Coefficient of Utilization



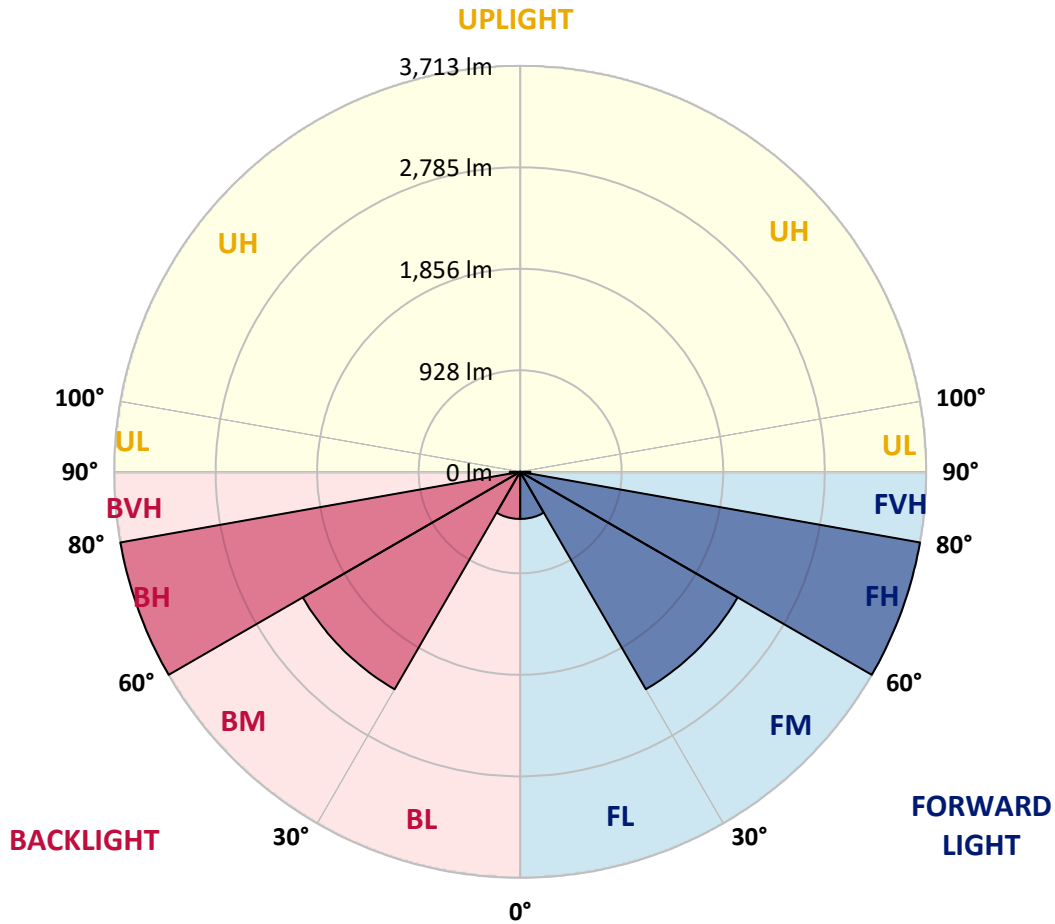
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.1	3.3			
FM (30°-60°)	2296.0	17.6			
FH (60°-80°)	3712.7	28.4			G2/5000
FVH (80°-90°)	93.7	0.7			G1/100
BL (0°-30°)	431.1	3.3	B1/500		
BM (30°-60°)	2296.0	17.6	B2/2500		
BH (60°-80°)	3712.7	28.4	B4/5000		G2/5000
BVH (80°-90°)	93.7	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°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1032.2	1028.8	1028.8	1025.4	1022.0	1022.0	1022.0	1018.5	1022.0	1022.0	1022.0
5°	1028.8	1025.4	1022.0	1018.5	1018.5	1015.1	1018.5	1015.1	1015.1	1015.1	1015.1
7.5°	1018.5	1018.5	1011.7	1011.7	1008.2	1008.2	1004.8	1004.8	1004.8	1001.4	1001.4
10°	1018.5	1015.1	1011.7	1004.8	1001.4	1001.4	1001.4	998.0	1001.4	1001.4	1001.4
12.5°	1018.5	1018.5	1008.2	1001.4	994.5	994.5	994.5	994.5	1001.4	1004.8	1004.8
15°	1025.4	1022.0	1011.7	998.0	991.1	991.1	991.1	994.5	1001.4	1008.2	1008.2
17.5°	1028.8	1022.0	1008.2	994.5	991.1	991.1	991.1	994.5	1004.8	1011.7	1015.1
20°	1032.2	1028.8	1011.7	998.0	994.5	994.5	994.5	994.5	1004.8	1015.1	1018.5
22.5°	1042.5	1039.1	1022.0	1011.7	1008.2	1011.7	1008.2	1008.2	1018.5	1032.2	1032.2
25°	1056.3	1049.4	1032.2	1025.4	1025.4	1032.2	1032.2	1025.4	1035.7	1046.0	1049.4
27.5°	1080.3	1073.4	1056.3	1049.4	1046.0	1046.0	1046.0	1046.0	1052.8	1070.0	1070.0
30°	1100.8	1097.4	1090.5	1090.5	1087.1	1080.3	1080.3	1087.1	1090.5	1097.4	1100.8
32.5°	1128.3	1121.4	1114.6	1114.6	1135.1	1155.7	1138.6	1111.1	1107.7	1111.1	1114.6
35°	1186.6	1179.7	1162.6	1152.3	1172.9	1193.4	1166.0	1148.8	1159.1	1169.4	1169.4
37.5°	1268.9	1265.4	1251.7	1231.2	1224.3	1227.7	1217.4	1231.2	1258.6	1279.2	1282.6
40°	1354.6	1351.2	1337.5	1327.2	1330.6	1347.8	1340.9	1327.2	1344.3	1358.0	1358.0
42.5°	1488.4	1474.6	1454.1	1426.6	1430.1	1443.8	1426.6	1440.3	1464.3	1488.4	1491.8
45°	1666.7	1653.0	1625.5	1601.5	1584.4	1591.2	1591.2	1615.2	1642.7	1670.1	1680.4
47.5°	1858.7	1855.3	1827.9	1807.3	1790.1	1800.4	1800.4	1800.4	1845.0	1872.4	1872.4
50°	2095.4	2085.1	2085.1	2067.9	2061.1	2064.5	2050.8	2064.5	2085.1	2091.9	2081.6
52.5°	2376.6	2366.3	2373.1	2380.0	2397.1	2421.1	2386.9	2383.4	2373.1	2362.9	2359.4
55°	2712.6	2722.9	2750.4	2795.0	2822.4	2870.4	2819.0	2757.2	2729.8	2702.4	2681.8
57.5°	3113.9	3131.0	3172.2	3278.5	3395.1	3439.7	3350.5	3237.3	3141.3	3062.4	3079.6
60°	3638.6	3628.3	3696.9	3840.9	4005.5	4094.7	3954.1	3768.9	3614.6	3576.9	3587.1
62.5°	4197.6	4218.2	4266.2	4458.2	4664.0	4760.0	4588.5	4314.2	4115.3	4012.4	4012.4
65°	4547.4	4561.1	4694.8	4965.8	5195.5	5325.8	5082.4	4684.5	4399.9	4228.4	4218.2
67.5°	4598.8	4612.5	4763.4	5109.8	5487.0	5668.8	5247.0	4729.1	4396.5	4187.3	4180.4
69°	4458.2	4468.5	4626.2	4989.8	5463.0	5727.1	5168.1	4585.1	4242.2	4039.8	4046.7
70°	4255.9	4297.0	4417.1	4787.4	5336.1	5675.6	5024.1	4423.9	4067.3	3906.1	3878.6
72.5°	3336.8	3364.2	3563.1	4022.7	4763.4	5150.9	4413.6	3744.9	3381.4	3213.3	3254.5
75°	1889.6	1882.7	2136.5	2795.0	3672.9	4125.6	3474.0	2695.5	2167.4	1965.0	1992.5
77.5°	720.2	751.0	922.5	1433.5	2308.0	2819.0	2304.6	1440.3	1008.2	785.3	747.6
80°	233.2	246.9	325.8	521.3	984.2	1591.2	1076.8	555.6	349.8	264.1	246.9
82.5°	92.6	102.9	123.5	174.9	332.7	600.1	363.5	202.3	150.9	123.5	113.2
85°	51.4	48.0	65.2	78.9	113.2	171.5	123.5	96.0	82.3	58.3	54.9
87.5°	17.1	17.1	27.4	27.4	30.9	27.4	30.9	34.3	34.3	20.6	17.1
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)