

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: P573030

Luminaire Tested: **ARCH-S-PA2-20-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573030
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-PA2-20-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

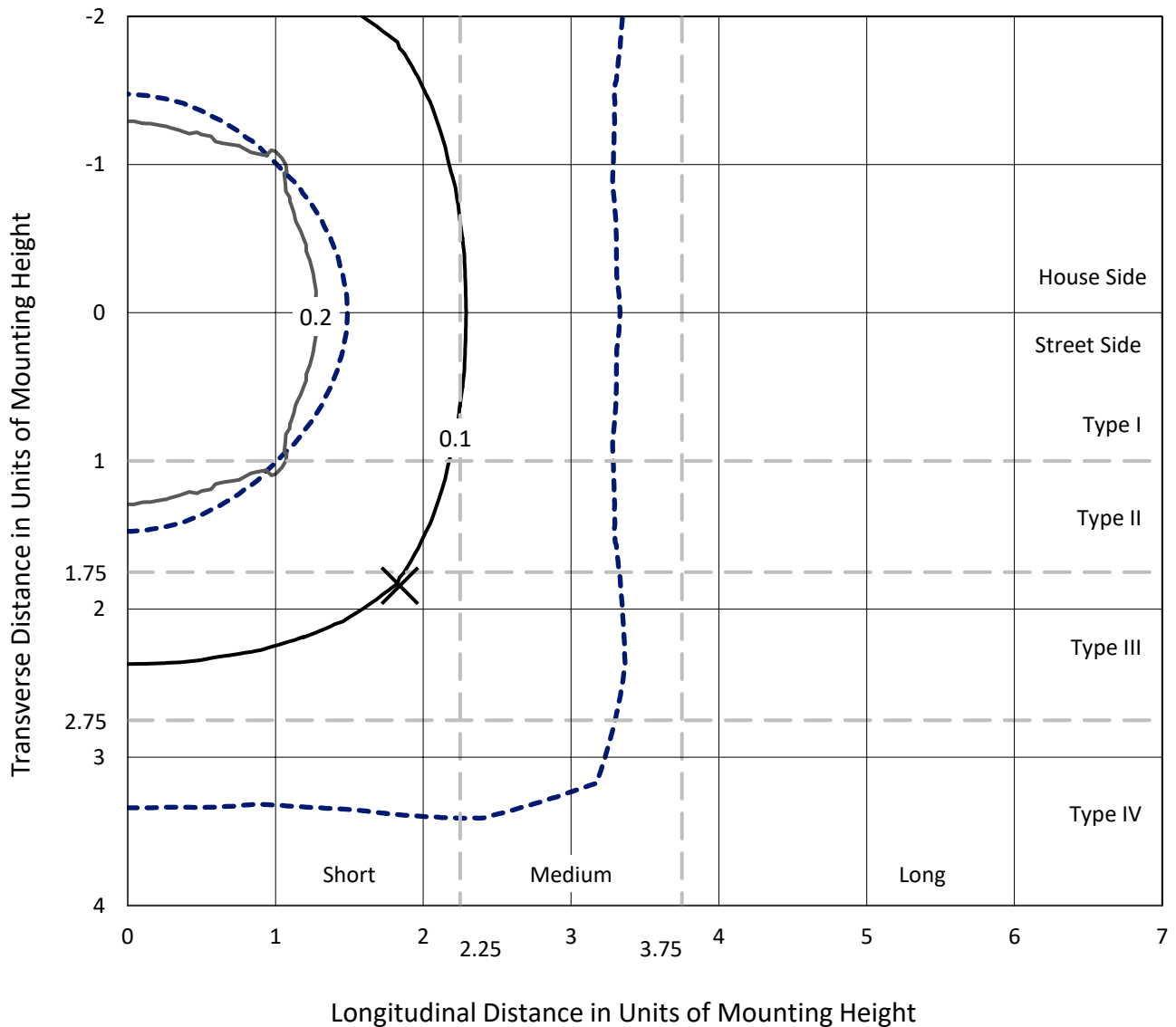
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

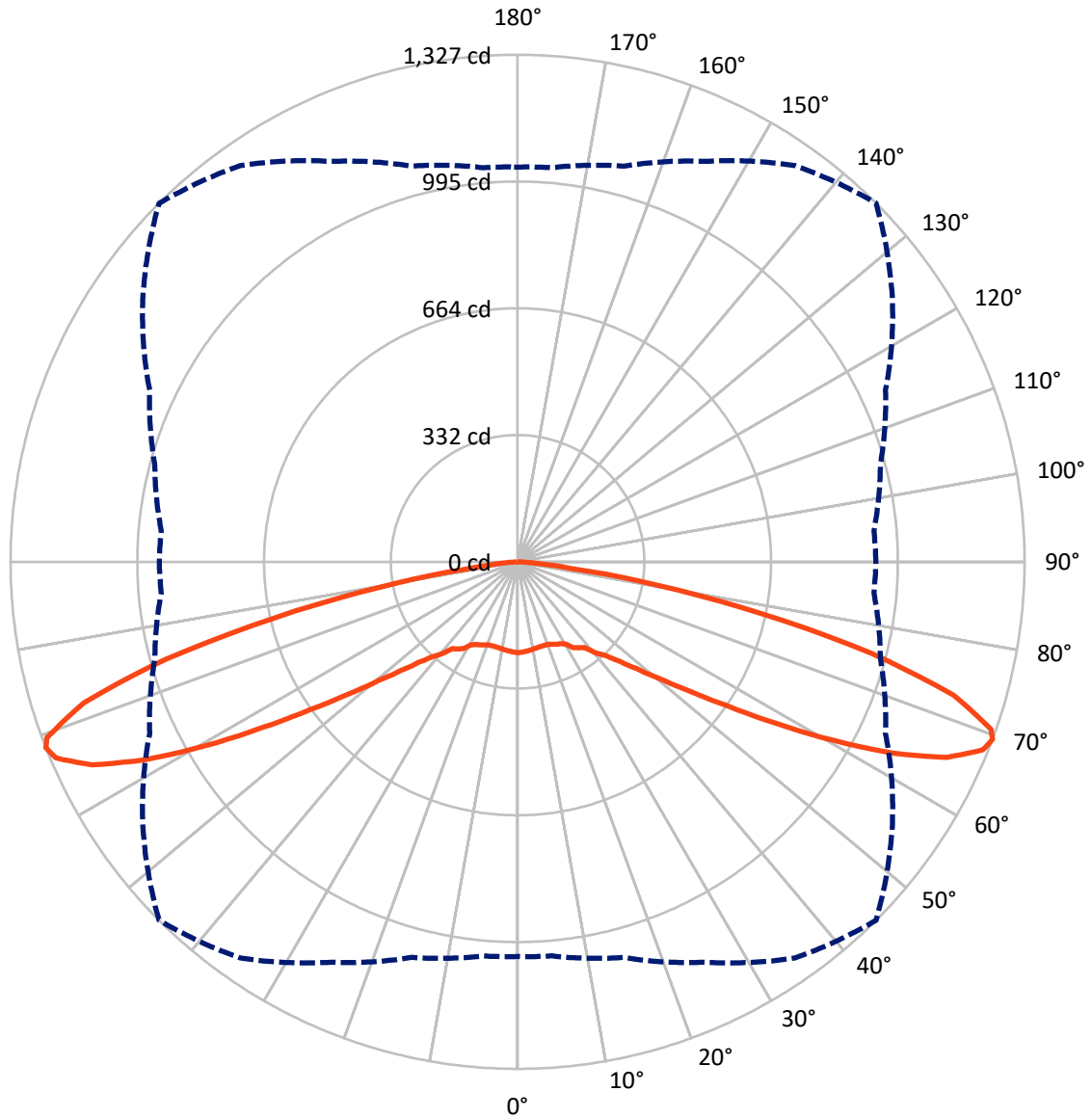
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 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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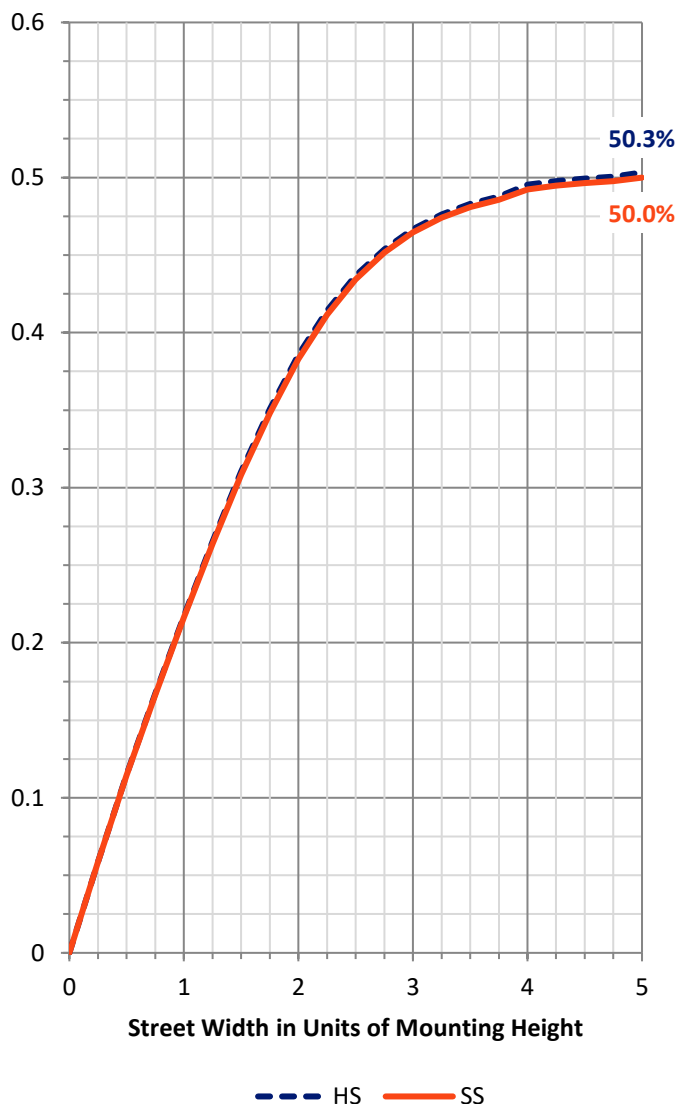
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.0	0.0	1514.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1514.0	0.0	1514.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3028.0	0.0	3028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.7
10°-20°	65.8	2.2
20°-30°	111.6	3.7
30°-40°	173.5	5.7
40°-50°	297.9	9.8
50°-60°	592.7	19.6
60°-70°	1055.8	34.9
70°-80°	664.9	22.0
80°-90°	43.4	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°	3028.0	100.0
0°-180°	3028.0	100.0

Coefficient of Utilization



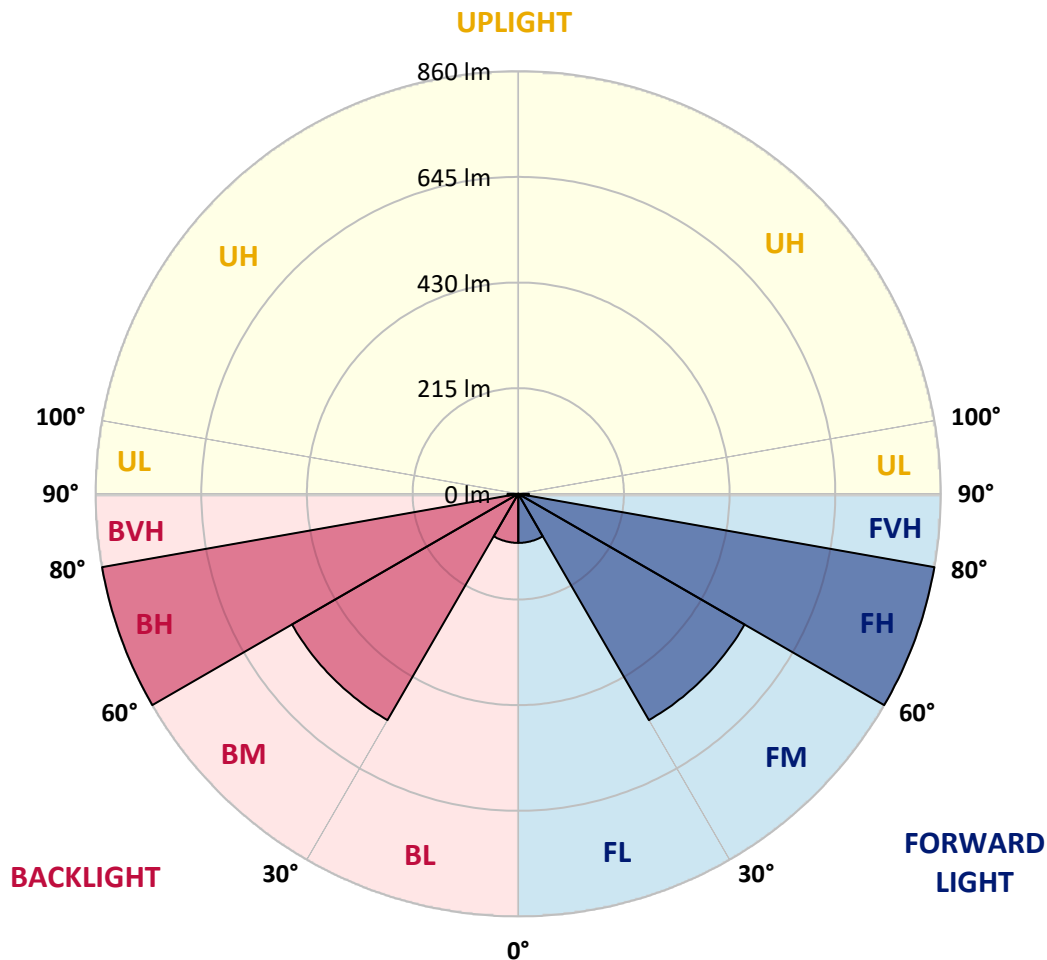
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	99.9	3.3			
FM (30°-60°)	532.0	17.6			
FH (60°-80°)	860.3	28.4			G1/1800
FVH (80°-90°)	21.7	0.7			G1/100
BL (0°-30°)	99.9	3.3	B0/110		
BM (30°-60°)	532.0	17.6	B1/1000		
BH (60°-80°)	860.3	28.4	B2/1000		G1/1800
BVH (80°-90°)	21.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6
2.5°	239.2	238.4	238.4	237.6	236.8	236.8	236.8	236.0	236.8	236.8	236.8
5°	238.4	237.6	236.8	236.0	236.0	235.2	236.0	235.2	235.2	235.2	235.2
7.5°	236.0	236.0	234.4	234.4	233.6	233.6	232.8	232.8	232.8	232.0	232.0
10°	236.0	235.2	234.4	232.8	232.0	232.0	232.0	231.3	232.0	232.0	232.0
12.5°	236.0	236.0	233.6	232.0	230.5	230.5	230.5	230.5	232.0	232.8	232.8
15°	237.6	236.8	234.4	231.3	229.7	229.7	229.7	230.5	232.0	233.6	233.6
17.5°	238.4	236.8	233.6	230.5	229.7	229.7	229.7	230.5	232.8	234.4	235.2
20°	239.2	238.4	234.4	231.3	230.5	230.5	230.5	230.5	232.8	235.2	236.0
22.5°	241.6	240.8	236.8	234.4	233.6	234.4	233.6	233.6	236.0	239.2	239.2
25°	244.8	243.2	239.2	237.6	237.6	239.2	239.2	237.6	240.0	242.4	243.2
27.5°	250.3	248.7	244.8	243.2	242.4	242.4	242.4	242.4	244.0	247.9	247.9
30°	255.1	254.3	252.7	252.7	251.9	250.3	250.3	251.9	252.7	254.3	255.1
32.5°	261.5	259.9	258.3	258.3	263.0	267.8	263.8	257.5	256.7	257.5	258.3
35°	275.0	273.4	269.4	267.0	271.8	276.6	270.2	266.2	268.6	271.0	271.0
37.5°	294.0	293.2	290.1	285.3	283.7	284.5	282.1	285.3	291.7	296.4	297.2
40°	313.9	313.1	309.9	307.5	308.3	312.3	310.7	307.5	311.5	314.7	314.7
42.5°	344.9	341.7	336.9	330.6	331.4	334.6	330.6	333.8	339.3	344.9	345.7
45°	386.2	383.0	376.7	371.1	367.1	368.7	368.7	374.3	380.7	387.0	389.4
47.5°	430.7	429.9	423.6	418.8	414.8	417.2	417.2	417.2	427.5	433.9	433.9
50°	485.6	483.2	483.2	479.2	477.6	478.4	475.2	478.4	483.2	484.8	482.4
52.5°	550.7	548.3	549.9	551.5	555.5	561.1	553.1	552.3	549.9	547.5	546.7
55°	628.6	631.0	637.3	647.7	654.0	665.2	653.2	638.9	632.6	626.2	621.4
57.5°	721.6	725.6	735.1	759.7	786.7	797.1	776.4	750.2	727.9	709.7	713.6
60°	843.2	840.8	856.7	890.1	928.2	948.9	916.3	873.4	837.6	828.9	831.2
62.5°	972.7	977.5	988.6	1033.1	1080.8	1103.0	1063.3	999.7	953.6	929.8	929.8
65°	1053.8	1056.9	1087.9	1150.7	1204.0	1234.2	1177.7	1085.5	1019.6	979.9	977.5
67.5°	1065.7	1068.9	1103.8	1184.1	1271.5	1313.6	1215.9	1095.9	1018.8	970.3	968.7
69°	1033.1	1035.5	1072.0	1156.3	1265.9	1327.1	1197.6	1062.5	983.0	936.1	937.7
70°	986.2	995.7	1023.6	1109.4	1236.5	1315.2	1164.2	1025.1	942.5	905.2	898.8
72.5°	773.2	779.6	825.7	932.2	1103.8	1193.6	1022.8	867.8	783.6	744.6	754.2
75°	437.9	436.3	495.1	647.7	851.1	956.0	805.0	624.6	502.2	455.4	461.7
77.5°	166.9	174.0	213.8	332.2	534.8	653.2	534.0	333.8	233.6	182.0	173.2
80°	54.0	57.2	75.5	120.8	228.1	368.7	249.5	128.7	81.1	61.2	57.2
82.5°	21.5	23.8	28.6	40.5	77.1	139.1	84.2	46.9	35.0	28.6	26.2
85°	11.9	11.1	15.1	18.3	26.2	39.7	28.6	22.3	19.1	13.5	12.7
87.5°	4.0	4.0	6.4	6.4	7.2	6.4	7.2	7.9	7.9	4.8	4.0
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)