

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: P573021

Luminaire Tested: **ARCH-S-PA2-20-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573021
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-PA2-20-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 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: 2801 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

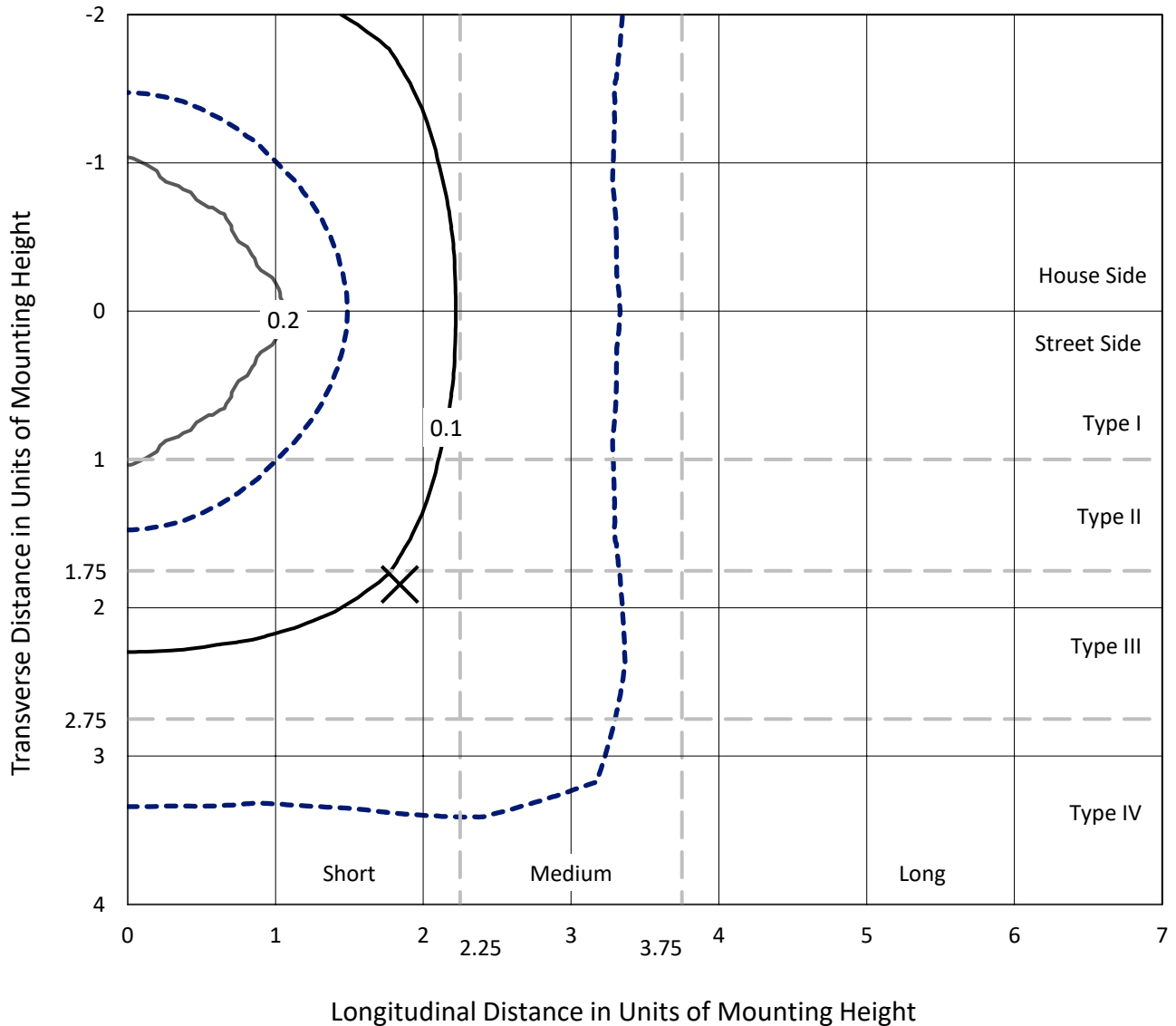
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573021
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

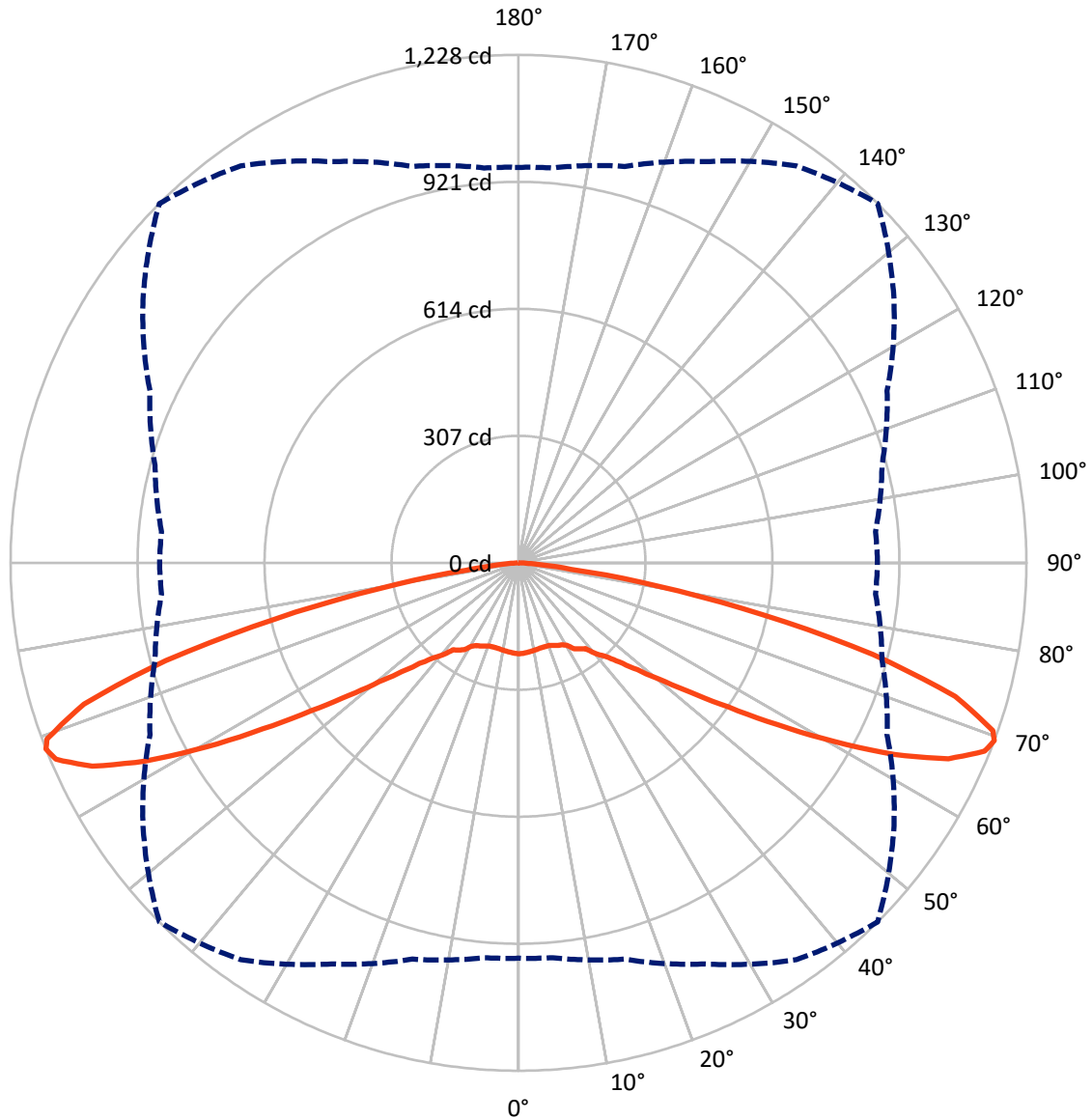
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

REPORT NUMBER: P573021
CATALOG NUMBER: ARCH-S-PA2-20-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P573021
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-5WQ

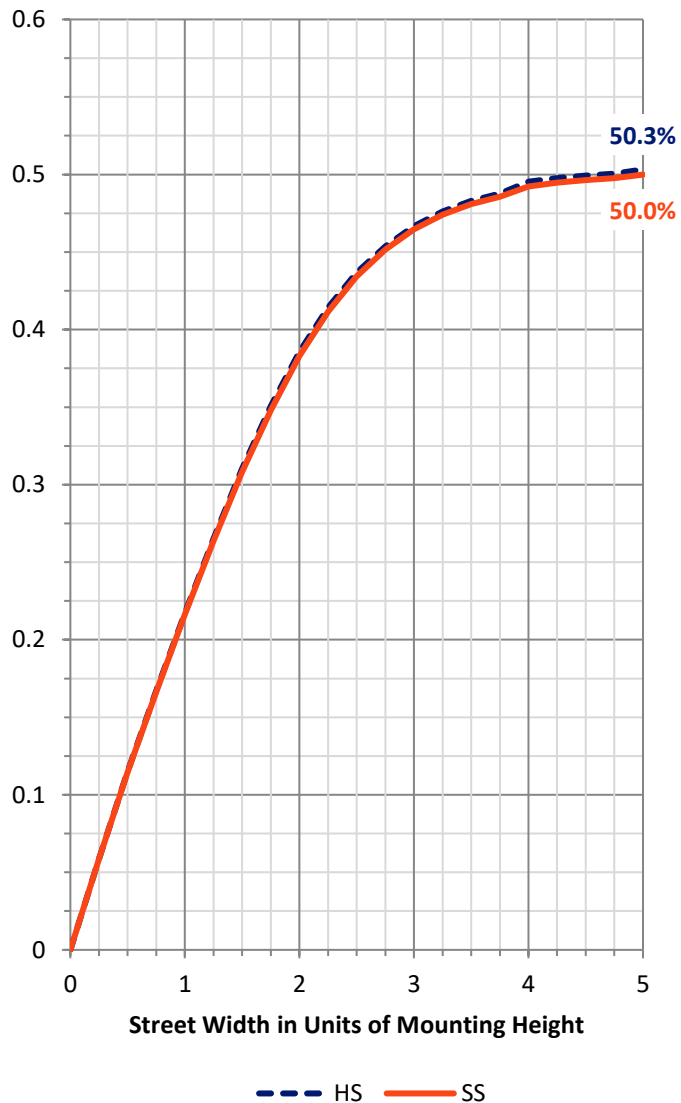
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.5	0.0	1400.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1400.5	0.0	1400.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2801.0	0.0	2801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	0.7
10°-20°	60.9	2.2
20°-30°	103.2	3.7
30°-40°	160.5	5.7
40°-50°	275.5	9.8
50°-60°	548.2	19.6
60°-70°	976.6	34.9
70°-80°	615.1	22.0
80°-90°	40.2	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°	2801.0	100.0
0°-180°	2801.0	100.0

Coefficient of Utilization



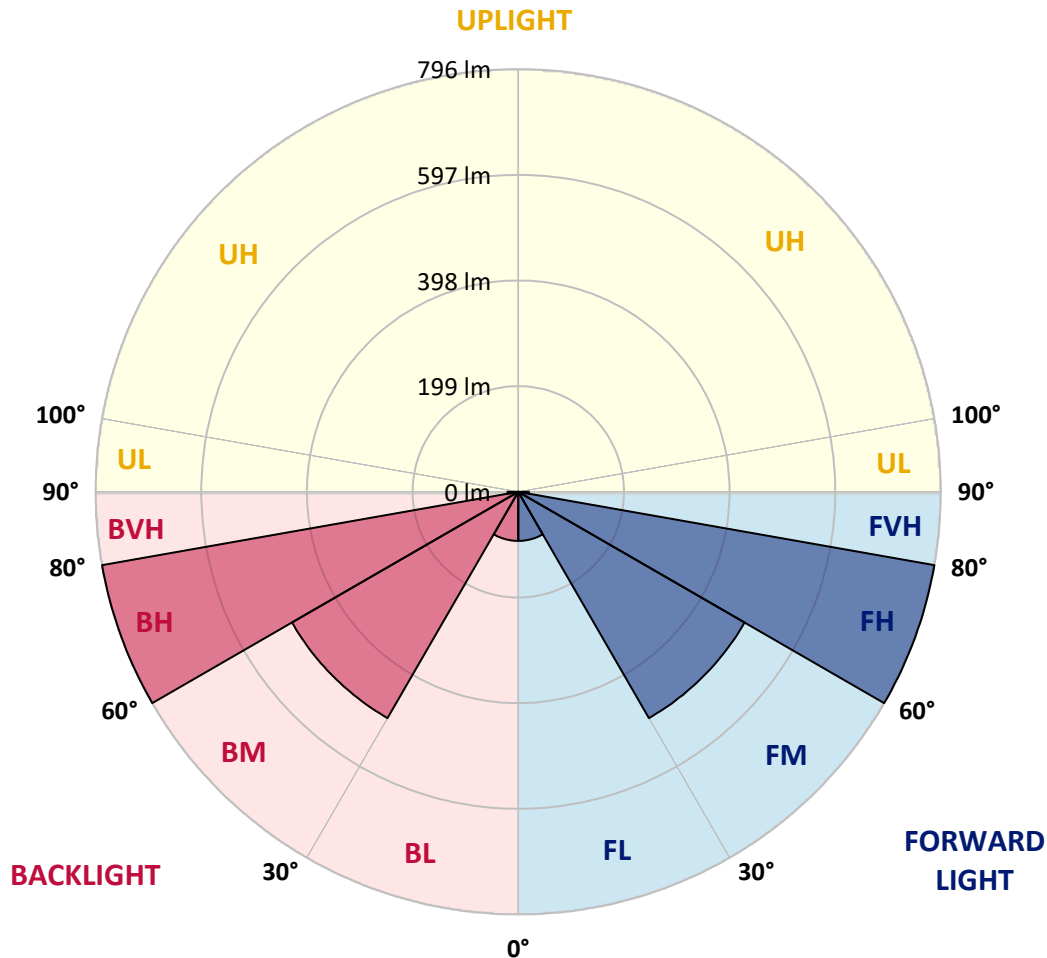
REPORT NUMBER: P573021
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.4	3.3			
FM (30°-60°)	492.2	17.6			
FH (60°-80°)	795.8	28.4			G1/1800
FVH (80°-90°)	20.1	0.7			G1/100
BL (0°-30°)	92.4	3.3	B0/110		
BM (30°-60°)	492.2	17.6	B1/1000		
BH (60°-80°)	795.8	28.4	B2/1000		G1/1800
BVH (80°-90°)	20.1	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





REPORT NUMBER: P573021
 CATALOG NUMBER: ARCH-S-PA2-20-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8
2.5°	221.3	220.5	220.5	219.8	219.1	219.1	219.1	218.3	219.1	219.1	219.1
5°	220.5	219.8	219.1	218.3	218.3	217.6	218.3	217.6	217.6	217.6	217.6
7.5°	218.3	218.3	216.9	216.9	216.1	216.1	215.4	215.4	215.4	214.7	214.7
10°	218.3	217.6	216.9	215.4	214.7	214.7	214.7	213.9	214.7	214.7	214.7
12.5°	218.3	218.3	216.1	214.7	213.2	213.2	213.2	213.2	214.7	215.4	215.4
15°	219.8	219.1	216.9	213.9	212.4	212.4	212.4	213.2	214.7	216.1	216.1
17.5°	220.5	219.1	216.1	213.2	212.4	212.4	212.4	213.2	215.4	216.9	217.6
20°	221.3	220.5	216.9	213.9	213.2	213.2	213.2	213.2	215.4	217.6	218.3
22.5°	223.5	222.7	219.1	216.9	216.1	216.9	216.1	216.1	218.3	221.3	221.3
25°	226.4	224.9	221.3	219.8	219.8	221.3	221.3	219.8	222.0	224.2	224.9
27.5°	231.6	230.1	226.4	224.9	224.2	224.2	224.2	224.2	225.7	229.4	229.4
30°	236.0	235.2	233.8	233.8	233.0	231.6	231.6	233.0	233.8	235.2	236.0
32.5°	241.9	240.4	238.9	238.9	243.3	247.7	244.1	238.2	237.4	238.2	238.9
35°	254.3	252.9	249.2	247.0	251.4	255.8	249.9	246.3	248.5	250.7	250.7
37.5°	272.0	271.3	268.3	263.9	262.4	263.2	261.0	263.9	269.8	274.2	274.9
40°	290.4	289.6	286.7	284.5	285.2	288.9	287.4	284.5	288.2	291.1	291.1
42.5°	319.0	316.1	311.7	305.8	306.5	309.5	305.8	308.7	313.9	319.0	319.8
45°	357.3	354.3	348.4	343.3	339.6	341.1	341.1	346.2	352.1	358.0	360.2
47.5°	398.4	397.7	391.8	387.4	383.7	385.9	385.9	385.9	395.5	401.4	401.4
50°	449.2	446.9	446.9	443.3	441.8	442.5	439.6	442.5	446.9	448.4	446.2
52.5°	509.4	507.2	508.7	510.2	513.8	519.0	511.6	510.9	508.7	506.5	505.8
55°	581.5	583.7	589.6	599.1	605.0	615.3	604.3	591.0	585.2	579.3	574.9
57.5°	667.5	671.2	680.0	702.8	727.8	737.3	718.2	693.9	673.4	656.5	660.1
60°	780.0	777.7	792.5	823.3	858.6	877.7	847.6	807.9	774.8	766.7	768.9
62.5°	899.8	904.2	914.5	955.6	999.8	1020.3	983.6	924.8	882.1	860.1	860.1
65°	974.8	977.7	1006.4	1064.4	1113.7	1141.6	1089.4	1004.2	943.2	906.4	904.2
67.5°	985.8	988.7	1021.1	1095.3	1176.2	1215.1	1124.7	1013.7	942.4	897.6	896.1
69°	955.6	957.9	991.7	1069.6	1171.0	1227.6	1107.8	982.8	909.3	866.0	867.4
70°	912.3	921.1	946.8	1026.2	1143.8	1216.6	1076.9	948.3	871.8	837.3	831.4
72.5°	715.3	721.1	763.8	862.3	1021.1	1104.1	946.1	802.7	724.8	688.8	697.6
75°	405.0	403.6	458.0	599.1	787.3	884.3	744.7	577.8	464.6	421.2	427.1
77.5°	154.4	161.0	197.7	307.3	494.7	604.3	494.0	308.7	216.1	168.3	160.3
80°	50.0	52.9	69.8	111.7	211.0	341.1	230.8	119.1	75.0	56.6	52.9
82.5°	19.8	22.1	26.5	37.5	71.3	128.6	77.9	43.4	32.3	26.5	24.3
85°	11.0	10.3	14.0	16.9	24.3	36.8	26.5	20.6	17.6	12.5	11.8
87.5°	3.7	3.7	5.9	5.9	6.6	5.9	6.6	7.4	7.4	4.4	3.7
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)