

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: P459575

Luminaire Tested: **ARCH-S-PA1-30-AMB-U-5WQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-AMB-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1270 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

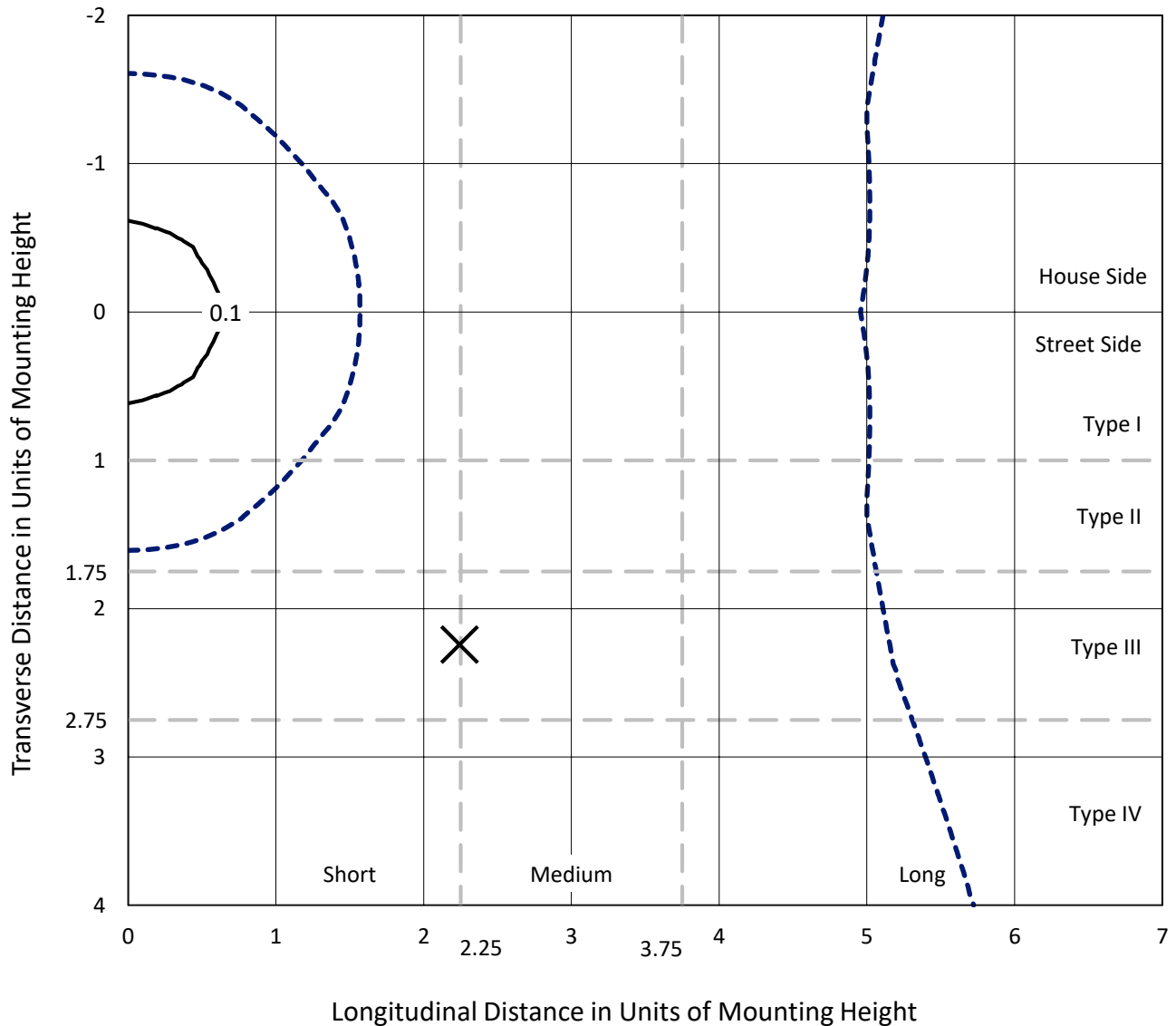
Input Watts (W): 32
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

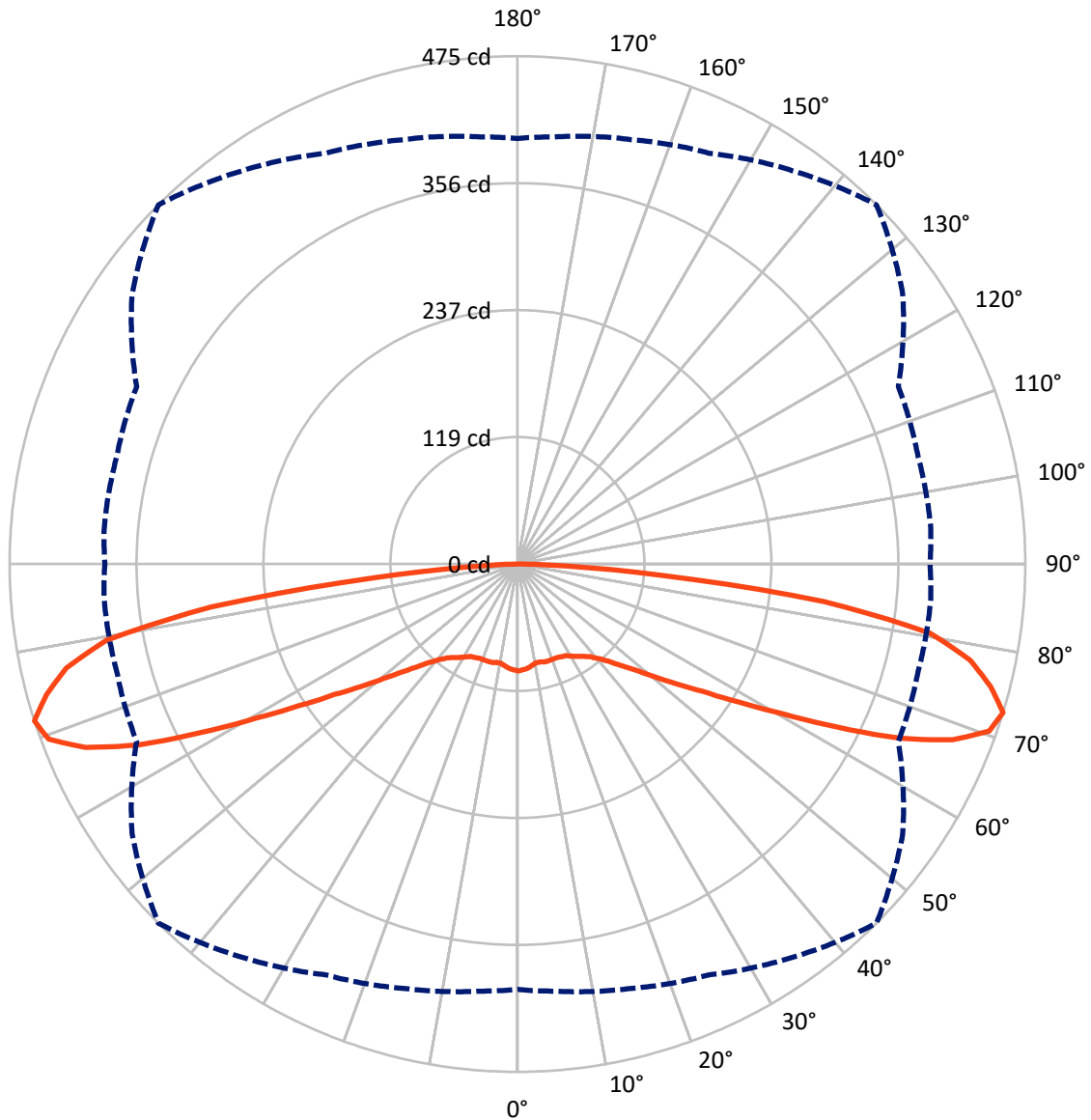
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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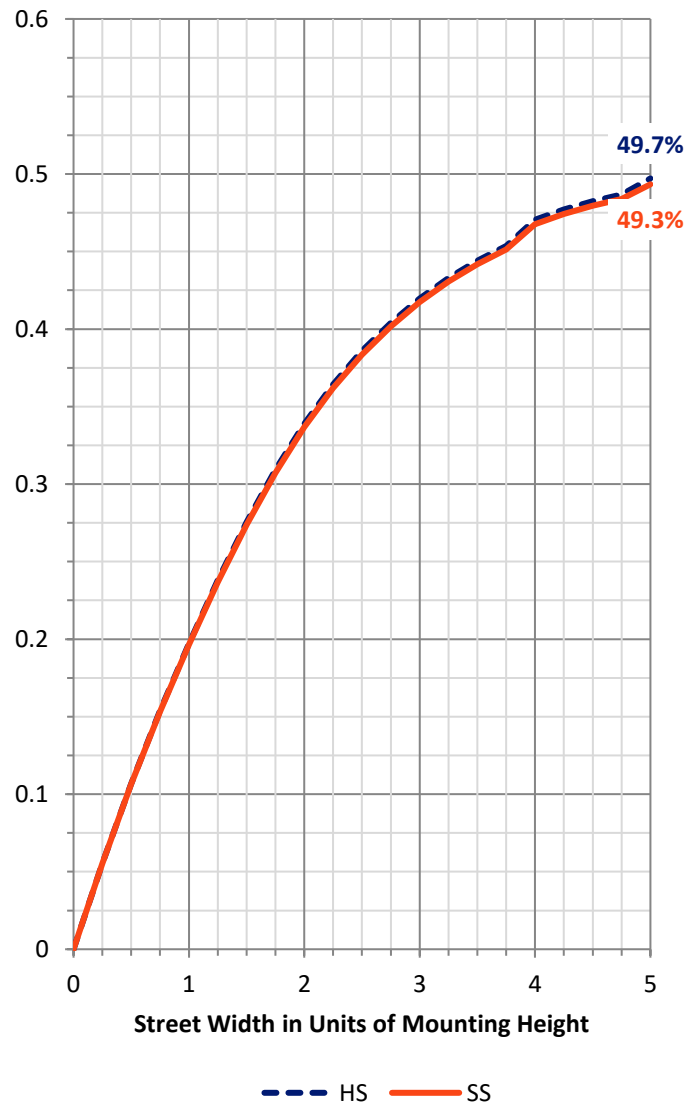
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.0	0.0	635.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	635.0	0.0	635.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	1270.0	0.0	1270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.7
10°-20°	27.0	2.1
20°-30°	44.7	3.5
30°-40°	66.9	5.3
40°-50°	107.7	8.5
50°-60°	190.4	15.0
60°-70°	339.5	26.7
70°-80°	400.5	31.5
80°-90°	83.9	6.6
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°	1270.0	100.0
0°-180°	1270.0	100.0



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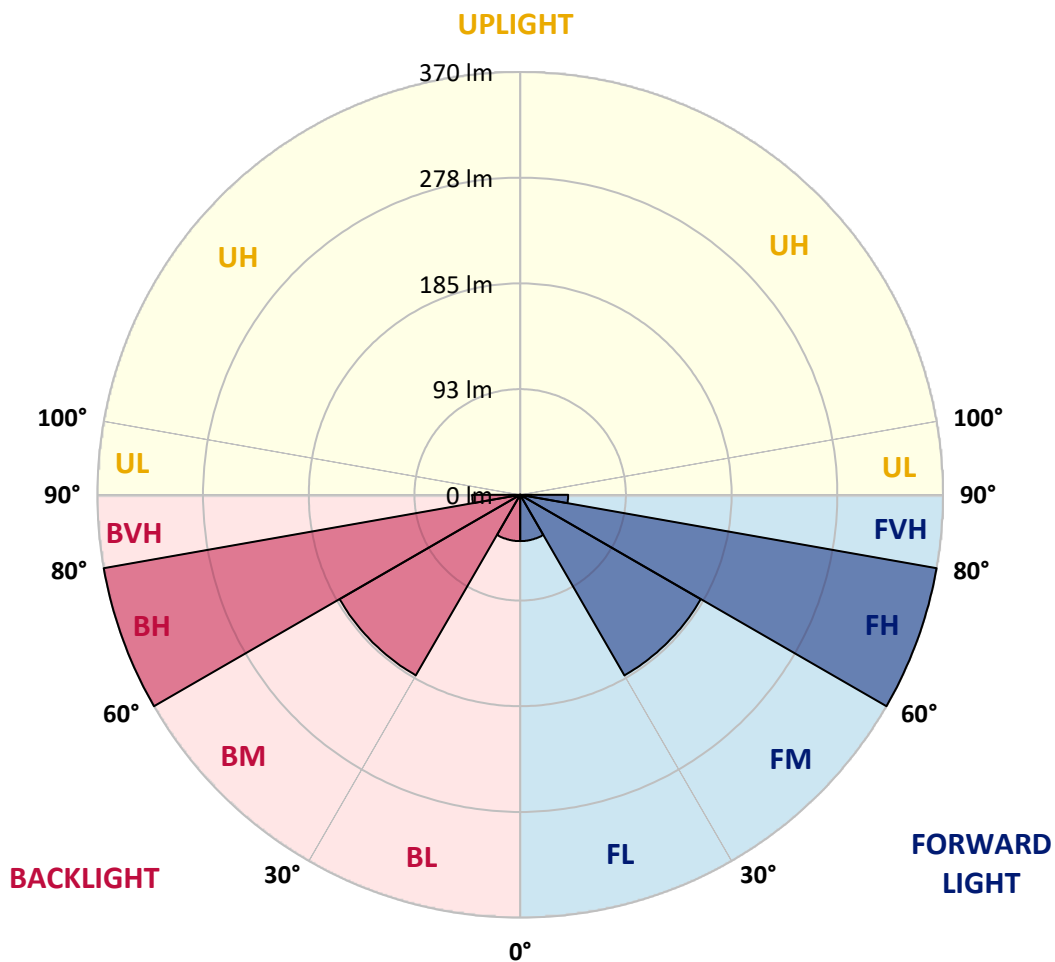
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	40.5	3.2			
FM	(30°-60°)	182.5	14.4			
FH	(60°-80°)	370.0	29.1			G0/660
FVH	(80°-90°)	42.0	3.3			G1/100
BL	(0°-30°)	40.5	3.2	B0/110		
BM	(30°-60°)	182.5	14.4	B0/220		
BH	(60°-80°)	370.0	29.1	B1/500		G0/660
BVH	(80°-90°)	42.0	3.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5°	100.0	100.0	100.0	100.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
5°	100.0	100.0	100.0	99.0	99.0	98.0	98.0	98.0	98.0	98.0	98.0
7.5°	98.0	98.0	97.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
10°	97.0	97.0	96.0	95.0	94.0	94.0	94.0	95.0	95.0	96.0	96.0
12.5°	97.0	97.0	95.0	94.0	94.0	94.0	94.0	94.0	95.0	97.0	97.0
15°	97.0	97.0	95.0	94.0	94.0	95.0	94.0	94.0	95.0	97.0	97.0
17.5°	97.0	97.0	95.0	94.0	95.0	95.0	95.0	95.0	96.0	98.0	98.0
20°	97.0	97.0	95.0	94.0	95.0	95.0	95.0	95.0	96.0	98.0	98.0
22.5°	97.0	97.0	95.0	94.0	95.0	95.0	95.0	95.0	96.0	98.0	99.0
25°	97.0	97.0	95.0	95.0	95.0	96.0	96.0	96.0	97.0	99.0	99.0
27.5°	98.0	97.0	96.0	96.0	97.0	97.0	97.0	97.0	97.0	100.0	100.0
30°	100.0	99.0	98.0	98.0	98.0	100.0	98.0	98.0	99.0	102.0	103.0
32.5°	102.0	101.0	100.0	100.0	101.0	103.0	100.0	100.0	102.0	105.0	106.0
35°	106.0	105.0	104.0	103.0	105.0	106.0	104.0	104.0	106.0	109.0	110.0
37.5°	112.0	111.0	110.0	108.0	110.0	110.0	110.0	109.0	111.0	114.0	115.0
40°	120.0	119.0	117.0	115.0	116.0	116.0	115.0	115.0	118.0	120.0	121.0
42.5°	128.0	128.0	125.0	125.0	124.0	124.0	123.0	123.0	126.0	130.0	130.0
45°	140.0	139.0	136.0	135.0	134.0	135.0	135.0	134.0	139.0	143.0	144.0
47.5°	153.0	151.0	149.0	147.0	147.0	148.0	148.0	149.0	153.0	158.0	159.0
50°	168.0	167.0	164.0	163.0	163.0	165.0	166.0	165.0	169.0	174.0	175.0
52.5°	185.0	184.0	182.0	181.0	182.0	186.0	186.0	184.0	187.0	191.0	191.0
55°	205.0	205.0	203.0	203.0	207.0	210.0	211.0	206.0	209.0	212.0	212.0
57.5°	229.9	229.9	228.9	229.9	237.9	242.9	241.9	233.9	235.9	236.9	237.9
60°	258.9	258.9	259.9	263.9	275.9	283.9	279.9	266.9	263.9	262.9	262.9
62.5°	289.9	289.9	292.9	302.9	319.9	335.9	324.9	302.9	293.9	289.9	289.9
65°	318.9	317.9	325.9	339.9	366.9	392.9	373.9	338.9	324.9	319.9	319.9
67.5°	347.9	346.9	357.9	375.9	406.9	438.9	415.9	367.9	349.9	343.9	341.9
70°	376.9	376.9	386.9	404.9	435.9	467.9	440.9	384.9	368.9	363.9	362.9
72.5°	397.9	400.9	410.9	423.9	448.9	474.9	439.9	392.9	387.9	387.9	385.9
75°	384.9	389.9	399.9	420.9	442.9	456.9	429.9	393.9	390.9	396.9	396.9
77.5°	296.9	303.9	322.9	364.9	411.9	432.9	407.9	358.9	325.9	318.9	304.9
80°	141.0	151.0	178.0	235.9	336.9	390.9	333.9	241.9	183.0	157.0	150.0
82.5°	39.0	47.0	66.0	106.0	196.0	288.9	204.0	109.0	66.0	50.0	44.0
85°	11.0	11.0	21.0	35.0	68.0	133.0	80.0	38.0	26.0	18.0	18.0
87.5°	5.0	5.0	9.0	10.0	16.0	26.0	19.0	13.0	13.0	8.0	8.0
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)