

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: P573381

Luminaire Tested: **ARCH-S-PA2-70-730-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573381
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-PA2-70-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10060 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

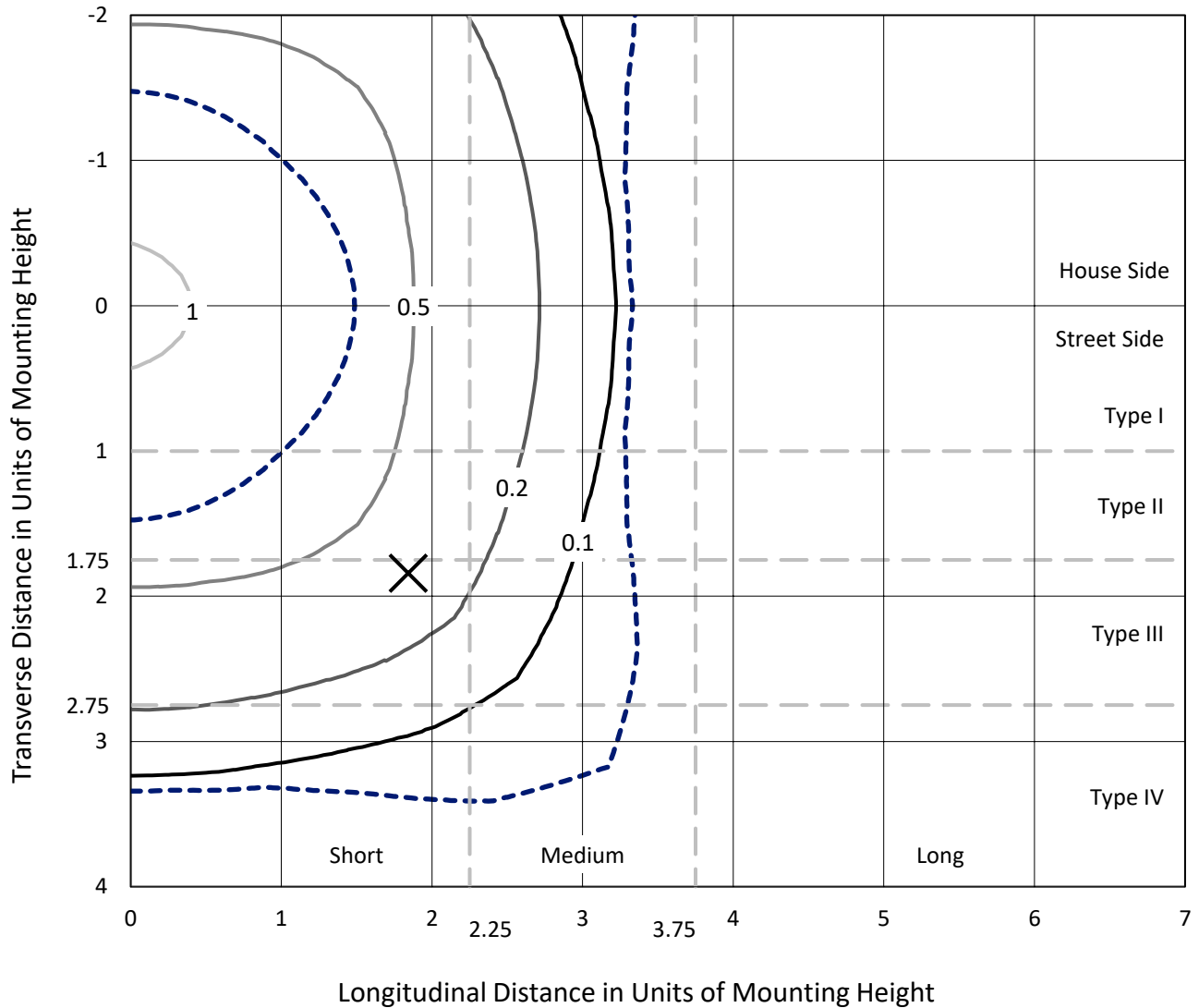
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

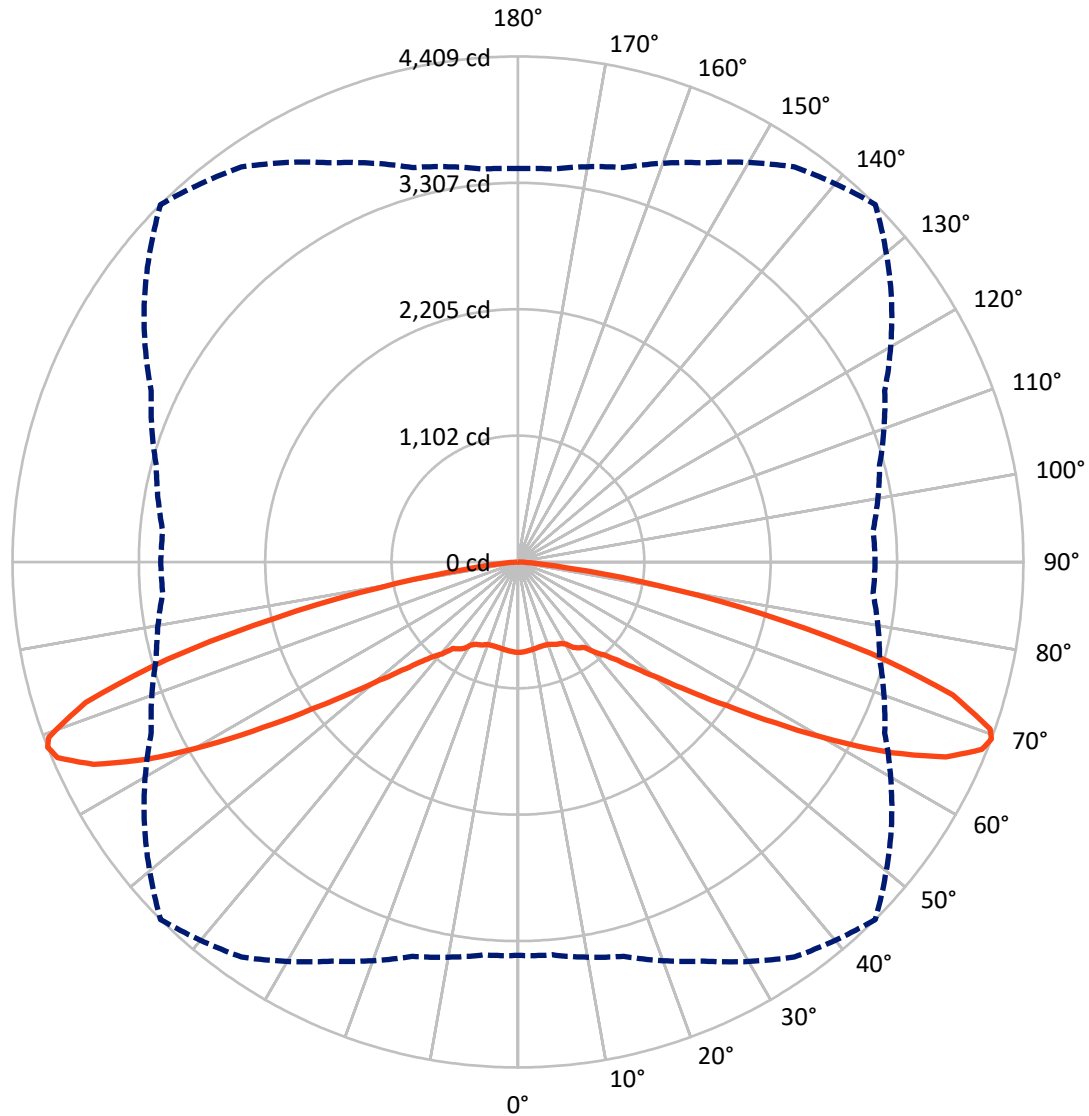
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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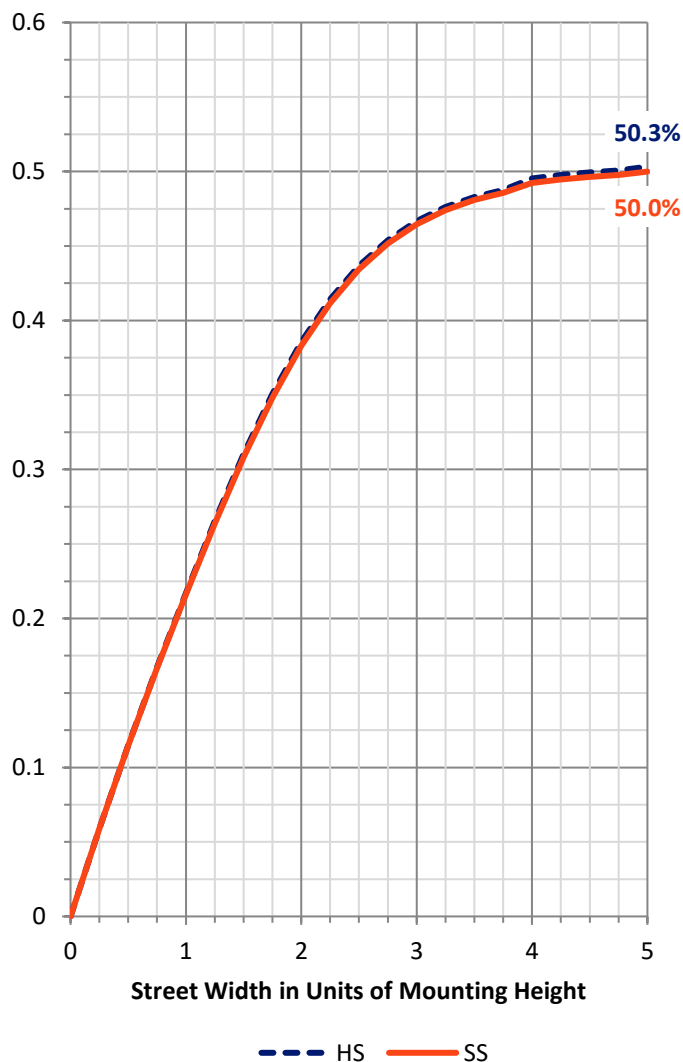
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5030.0	0.0	5030.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5030.0	0.0	5030.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10060.0	0.0	10060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	0.7
10°-20°	218.7	2.2
20°-30°	370.8	3.7
30°-40°	576.5	5.7
40°-50°	989.7	9.8
50°-60°	1969.0	19.6
60°-70°	3507.6	34.9
70°-80°	2209.0	22.0
80°-90°	144.3	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°	10060.0	100.0
0°-180°	10060.0	100.0

Coefficient of Utilization



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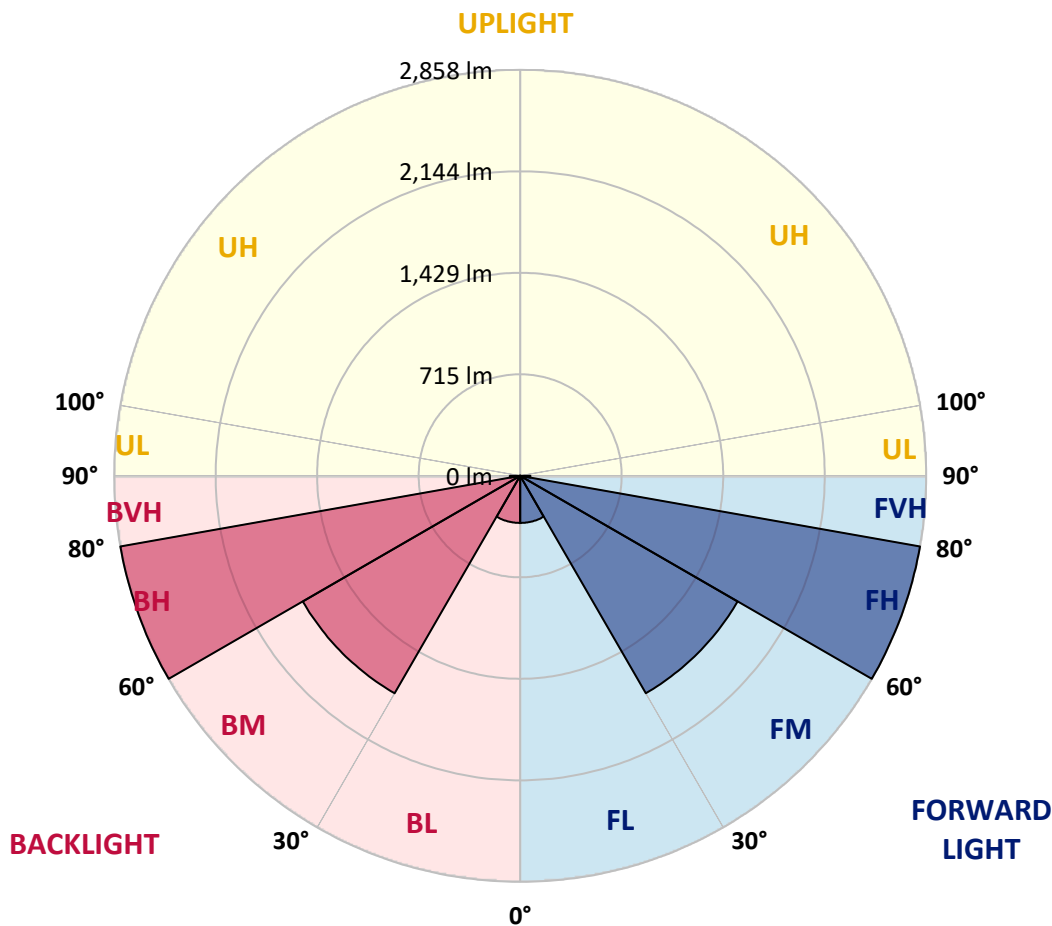
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.9	3.3			
FM (30°-60°)	1767.6	17.6			
FH (60°-80°)	2858.3	28.4			G2/5000
FVH (80°-90°)	72.1	0.7			G1/100
BL (0°-30°)	331.9	3.3	B1/500		
BM (30°-60°)	1767.6	17.6	B2/2500		
BH (60°-80°)	2858.3	28.4	B4/5000		G2/5000
BVH (80°-90°)	72.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	789.4	789.4	789.4	789.4	789.4	789.4	789.4	789.4	789.4	789.4	789.4
2.5°	794.7	792.1	792.1	789.4	786.8	786.8	786.8	784.1	786.8	786.8	786.8
5°	792.1	789.4	786.8	784.1	784.1	781.5	784.1	781.5	781.5	781.5	781.5
7.5°	784.1	784.1	778.9	778.9	776.2	776.2	773.6	773.6	773.6	770.9	770.9
10°	784.1	781.5	778.9	773.6	770.9	770.9	770.9	768.3	770.9	770.9	770.9
12.5°	784.1	784.1	776.2	770.9	765.7	765.7	765.7	765.7	770.9	773.6	773.6
15°	789.4	786.8	778.9	768.3	763.0	763.0	763.0	765.7	770.9	776.2	776.2
17.5°	792.1	786.8	776.2	765.7	763.0	763.0	763.0	765.7	773.6	778.9	781.5
20°	794.7	792.1	778.9	768.3	765.7	765.7	765.7	765.7	773.6	781.5	784.1
22.5°	802.6	800.0	786.8	778.9	776.2	778.9	776.2	776.2	784.1	794.7	794.7
25°	813.2	807.9	794.7	789.4	789.4	794.7	794.7	789.4	797.3	805.3	807.9
27.5°	831.7	826.4	813.2	807.9	805.3	805.3	805.3	805.3	810.5	823.7	823.7
30°	847.5	844.9	839.6	839.6	836.9	831.7	831.7	836.9	839.6	844.9	847.5
32.5°	868.6	863.3	858.1	858.1	873.9	889.8	876.6	855.4	852.8	855.4	858.1
35°	913.5	908.2	895.0	887.1	903.0	918.8	897.7	884.5	892.4	900.3	900.3
37.5°	976.9	974.2	963.7	947.8	942.6	945.2	937.3	947.8	969.0	984.8	987.4
40°	1042.9	1040.2	1029.7	1021.8	1024.4	1037.6	1032.3	1021.8	1035.0	1045.5	1045.5
42.5°	1145.9	1135.3	1119.5	1098.3	1101.0	1111.5	1098.3	1108.9	1127.4	1145.9	1148.5
45°	1283.1	1272.6	1251.5	1233.0	1219.8	1225.1	1225.1	1243.5	1264.7	1285.8	1293.7
47.5°	1431.0	1428.4	1407.2	1391.4	1378.2	1386.1	1386.1	1386.1	1420.4	1441.6	1441.6
50°	1613.2	1605.2	1605.2	1592.0	1586.8	1589.4	1578.8	1589.4	1605.2	1610.5	1602.6
52.5°	1829.7	1821.7	1827.0	1832.3	1845.5	1864.0	1837.6	1834.9	1827.0	1819.1	1816.5
55°	2088.4	2096.3	2117.5	2151.8	2172.9	2209.9	2170.3	2122.7	2101.6	2080.5	2064.6
57.5°	2397.3	2410.5	2442.2	2524.0	2613.8	2648.1	2579.5	2492.4	2418.4	2357.7	2370.9
60°	2801.3	2793.3	2846.2	2957.0	3083.8	3152.4	3044.2	2901.6	2782.8	2753.7	2761.7
62.5°	3231.6	3247.5	3284.4	3432.3	3590.7	3664.6	3532.6	3321.4	3168.3	3089.0	3089.0
65°	3500.9	3511.5	3614.5	3823.0	3999.9	4100.3	3912.8	3606.5	3387.4	3255.4	3247.5
67.5°	3540.5	3551.1	3667.3	3933.9	4224.3	4364.3	4039.5	3640.9	3384.8	3223.7	3218.4
69°	3432.3	3440.2	3561.6	3841.5	4205.9	4409.2	3978.8	3530.0	3265.9	3110.2	3115.5
70°	3276.5	3308.2	3400.6	3685.7	4108.2	4369.6	3867.9	3405.9	3131.3	3007.2	2986.1
72.5°	2568.9	2590.0	2743.2	3097.0	3667.3	3965.6	3398.0	2883.1	2603.3	2473.9	2505.6
75°	1454.8	1449.5	1644.9	2151.8	2827.7	3176.2	2674.5	2075.2	1668.6	1512.8	1534.0
77.5°	554.4	578.2	710.2	1103.6	1776.9	2170.3	1774.2	1108.9	776.2	604.6	575.6
80°	179.5	190.1	250.8	401.3	757.7	1225.1	829.0	427.7	269.3	203.3	190.1
82.5°	71.3	79.2	95.0	134.7	256.1	462.0	279.9	155.8	116.2	95.0	87.1
85°	39.6	37.0	50.2	60.7	87.1	132.0	95.0	73.9	63.4	44.9	42.2
87.5°	13.2	13.2	21.1	21.1	23.8	21.1	23.8	26.4	26.4	15.8	13.2
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)