

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: P573561

Luminaire Tested: **ARCH-S-PA2-90-740-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573561
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-PA2-90-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13245 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

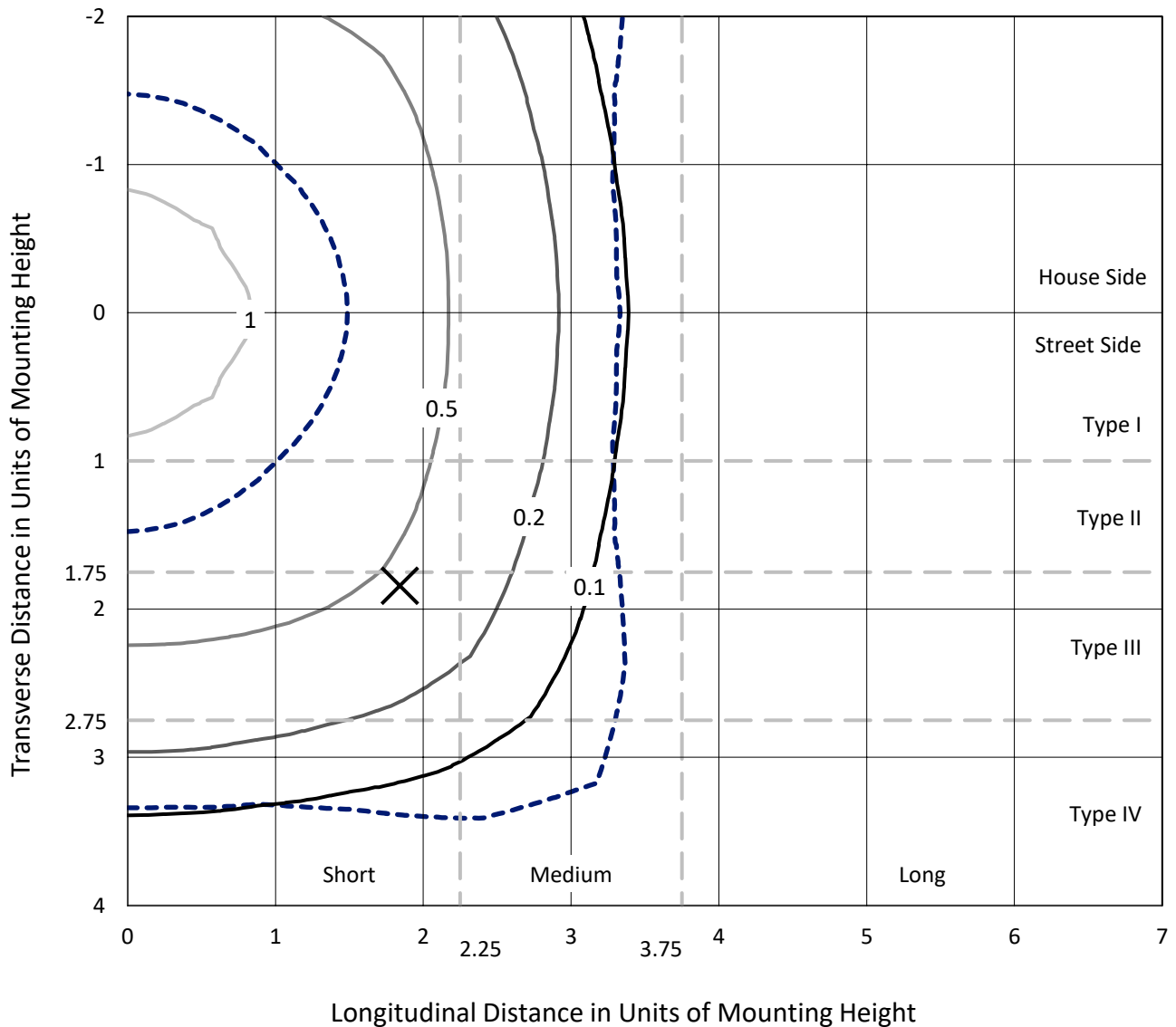
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

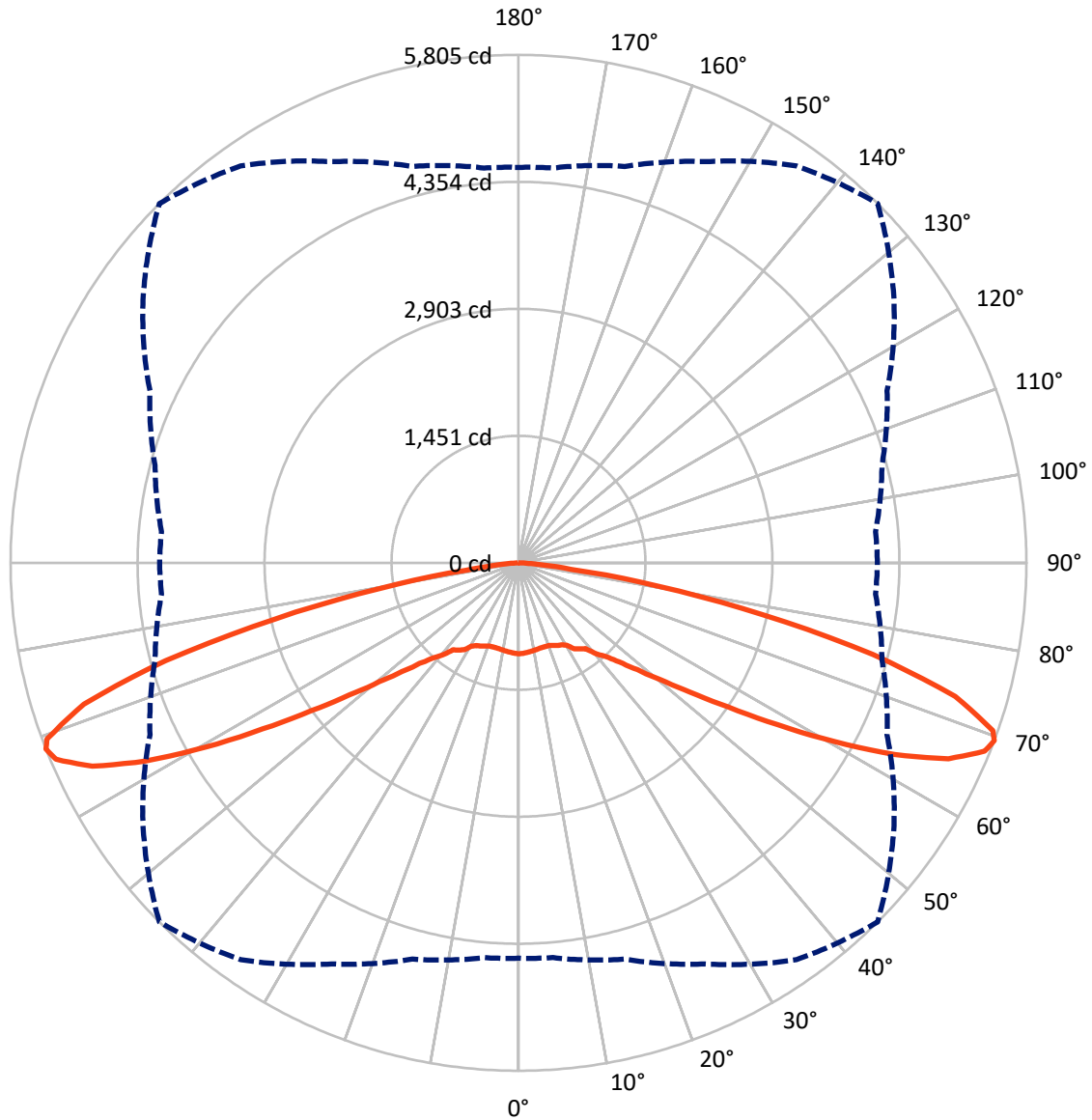
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

REPORT NUMBER: P573561
CATALOG NUMBER: ARCH-S-PA2-90-740-U-5WQ

Luminous Intensity Polar Plot



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

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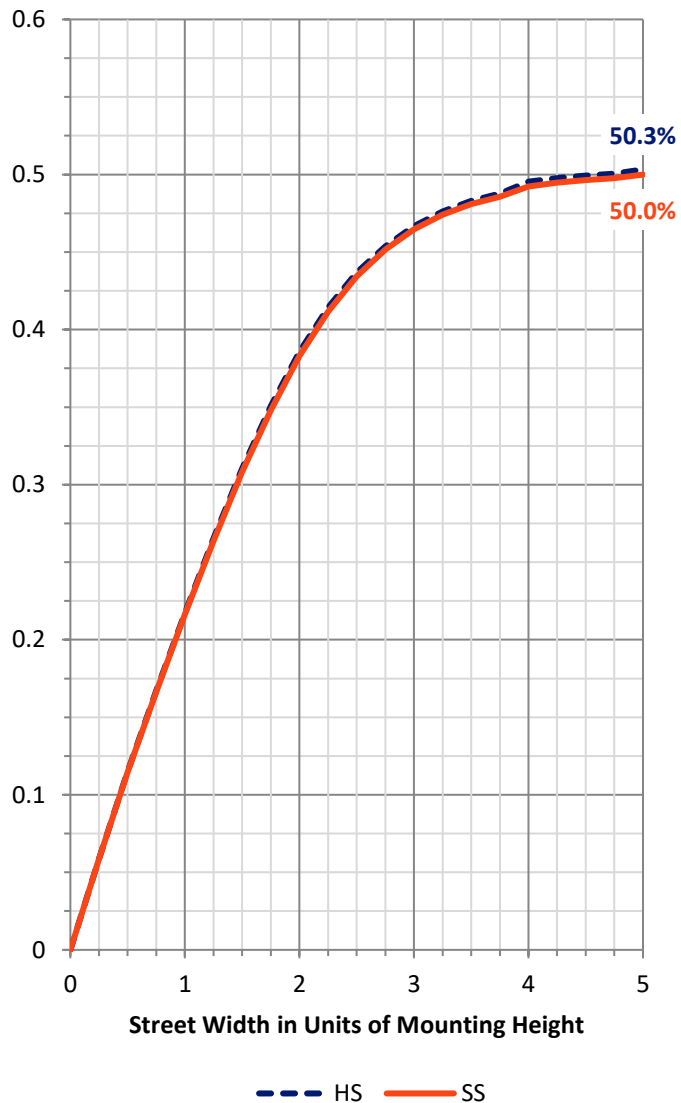
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6622.5	0.0	6622.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6622.5	0.0	6622.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13245.0	0.0	13245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	0.7
10°-20°	287.9	2.2
20°-30°	488.2	3.7
30°-40°	759.0	5.7
40°-50°	1303.0	9.8
50°-60°	2592.5	19.6
60°-70°	4618.1	34.9
70°-80°	2908.4	22.0
80°-90°	189.9	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°	13245.0	100.0
0°-180°	13245.0	100.0

Coefficient of Utilization



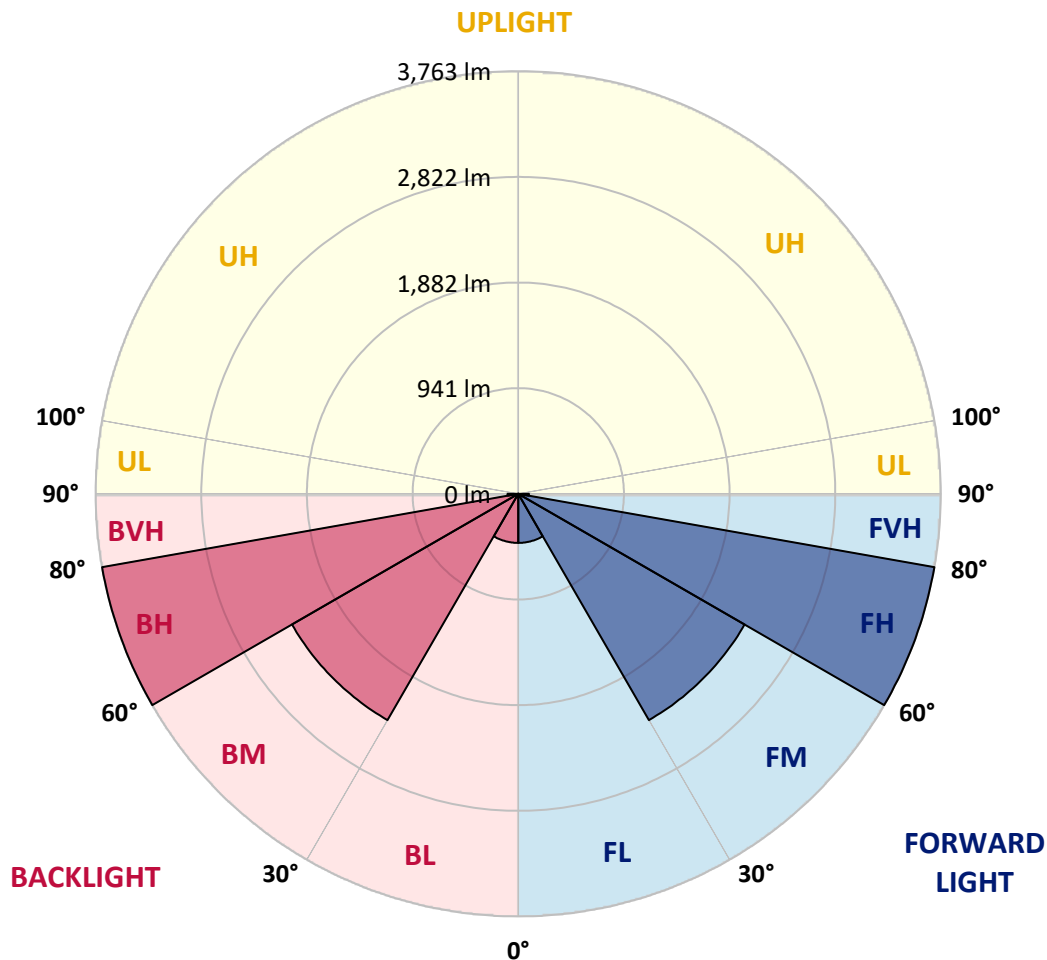
REPORT NUMBER: P573561
 CATALOG NUMBER: ARCH-S-PA2-90-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.0	3.3			
FM (30°-60°)	2327.3	17.6			
FH (60°-80°)	3763.3	28.4			G2/5000
FVH (80°-90°)	95.0	0.7			G1/100
BL (0°-30°)	437.0	3.3	B1/500		
BM (30°-60°)	2327.3	17.6	B2/2500		
BH (60°-80°)	3763.3	28.4	B4/5000		G2/5000
BVH (80°-90°)	95.0	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°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1046.3	1042.8	1042.8	1039.4	1035.9	1035.9	1035.9	1032.4	1035.9	1035.9	1035.9
5°	1042.8	1039.4	1035.9	1032.4	1032.4	1028.9	1032.4	1028.9	1028.9	1028.9	1028.9
7.5°	1032.4	1032.4	1025.5	1025.5	1022.0	1022.0	1018.5	1018.5	1018.5	1015.0	1015.0
10°	1032.4	1028.9	1025.5	1018.5	1015.0	1015.0	1015.0	1011.5	1015.0	1015.0	1015.0
12.5°	1032.4	1032.4	1022.0	1015.0	1008.1	1008.1	1008.1	1008.1	1015.0	1018.5	1018.5
15°	1039.4	1035.9	1025.5	1011.5	1004.6	1004.6	1004.6	1008.1	1015.0	1022.0	1022.0
17.5°	1042.8	1035.9	1022.0	1008.1	1004.6	1004.6	1004.6	1008.1	1018.5	1025.5	1028.9
20°	1046.3	1042.8	1025.5	1011.5	1008.1	1008.1	1008.1	1008.1	1018.5	1028.9	1032.4
22.5°	1056.7	1053.3	1035.9	1025.5	1022.0	1025.5	1022.0	1022.0	1032.4	1046.3	1046.3
25°	1070.6	1063.7	1046.3	1039.4	1039.4	1046.3	1046.3	1039.4	1049.8	1060.2	1063.7
27.5°	1095.0	1088.0	1070.6	1063.7	1060.2	1060.2	1060.2	1060.2	1067.2	1084.5	1084.5
30°	1115.8	1112.4	1105.4	1105.4	1101.9	1095.0	1095.0	1101.9	1105.4	1112.4	1115.8
32.5°	1143.6	1136.7	1129.7	1129.7	1150.6	1171.4	1154.1	1126.3	1122.8	1126.3	1129.7
35°	1202.7	1195.8	1178.4	1168.0	1188.8	1209.7	1181.9	1164.5	1174.9	1185.4	1185.4
37.5°	1286.2	1282.7	1268.8	1247.9	1241.0	1244.4	1234.0	1247.9	1275.7	1296.6	1300.1
40°	1373.1	1369.6	1355.7	1345.3	1348.7	1366.1	1359.2	1345.3	1362.6	1376.5	1376.5
42.5°	1508.6	1494.7	1473.9	1446.1	1449.5	1463.4	1446.1	1460.0	1484.3	1508.6	1512.1
45°	1689.4	1675.5	1647.7	1623.3	1606.0	1612.9	1612.9	1637.2	1665.1	1692.9	1703.3
47.5°	1884.0	1880.6	1852.8	1831.9	1814.5	1825.0	1825.0	1825.0	1870.1	1898.0	1898.0
50°	2123.9	2113.5	2113.5	2096.1	2089.1	2092.6	2078.7	2092.6	2113.5	2120.4	2110.0
52.5°	2408.9	2398.5	2405.5	2412.4	2429.8	2454.1	2419.4	2415.9	2405.5	2395.0	2391.6
55°	2749.6	2760.0	2787.8	2833.0	2860.8	2909.5	2857.4	2794.8	2767.0	2739.2	2718.3
57.5°	3156.3	3173.7	3215.4	3323.2	3441.3	3486.5	3396.2	3281.4	3184.1	3104.2	3121.5
60°	3688.1	3677.7	3747.2	3893.2	4060.1	4150.5	4008.0	3820.2	3663.8	3625.6	3636.0
62.5°	4254.8	4275.6	4324.3	4518.9	4727.5	4824.8	4651.0	4372.9	4171.3	4067.0	4067.0
65°	4609.3	4623.2	4758.8	5033.4	5266.3	5398.4	5151.6	4748.4	4459.8	4286.0	4275.6
67.5°	4661.5	4675.4	4828.3	5179.4	5561.8	5746.0	5318.4	4793.6	4456.4	4244.3	4237.4
69°	4518.9	4529.4	4689.3	5057.7	5537.4	5805.1	5238.5	4647.6	4299.9	4094.9	4101.8
70°	4313.8	4355.6	4477.2	4852.6	5408.8	5753.0	5092.5	4484.2	4122.7	3959.3	3931.5
72.5°	3382.3	3410.1	3611.7	4077.5	4828.3	5221.1	4473.7	3795.9	3427.4	3257.1	3298.8
75°	1915.3	1908.4	2165.6	2833.0	3722.9	4181.8	3521.3	2732.2	2196.9	1991.8	2019.6
77.5°	730.0	761.3	935.1	1453.0	2339.4	2857.4	2335.9	1460.0	1022.0	796.0	757.8
80°	236.4	250.3	330.2	528.4	997.6	1612.9	1091.5	563.1	354.6	267.7	250.3
82.5°	93.9	104.3	125.1	177.3	337.2	608.3	368.5	205.1	152.9	125.1	114.7
85°	52.1	48.7	66.0	80.0	114.7	173.8	125.1	97.3	83.4	59.1	55.6
87.5°	17.4	17.4	27.8	27.8	31.3	27.8	31.3	34.8	34.8	20.9	17.4
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)