

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: P573192

Luminaire Tested: **ARCH-S-PA2-40-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573192
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-PA2-40-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5493 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

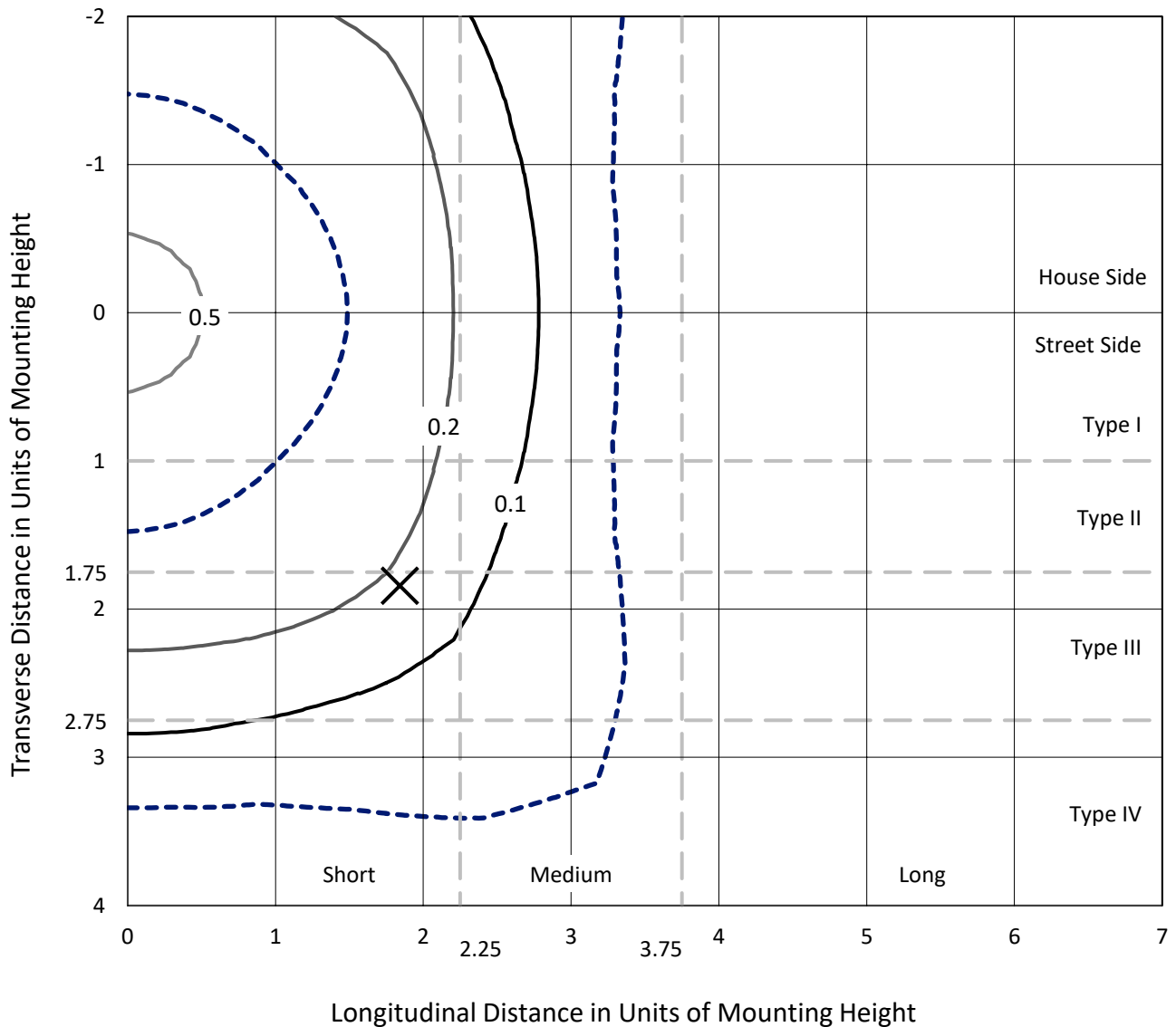
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

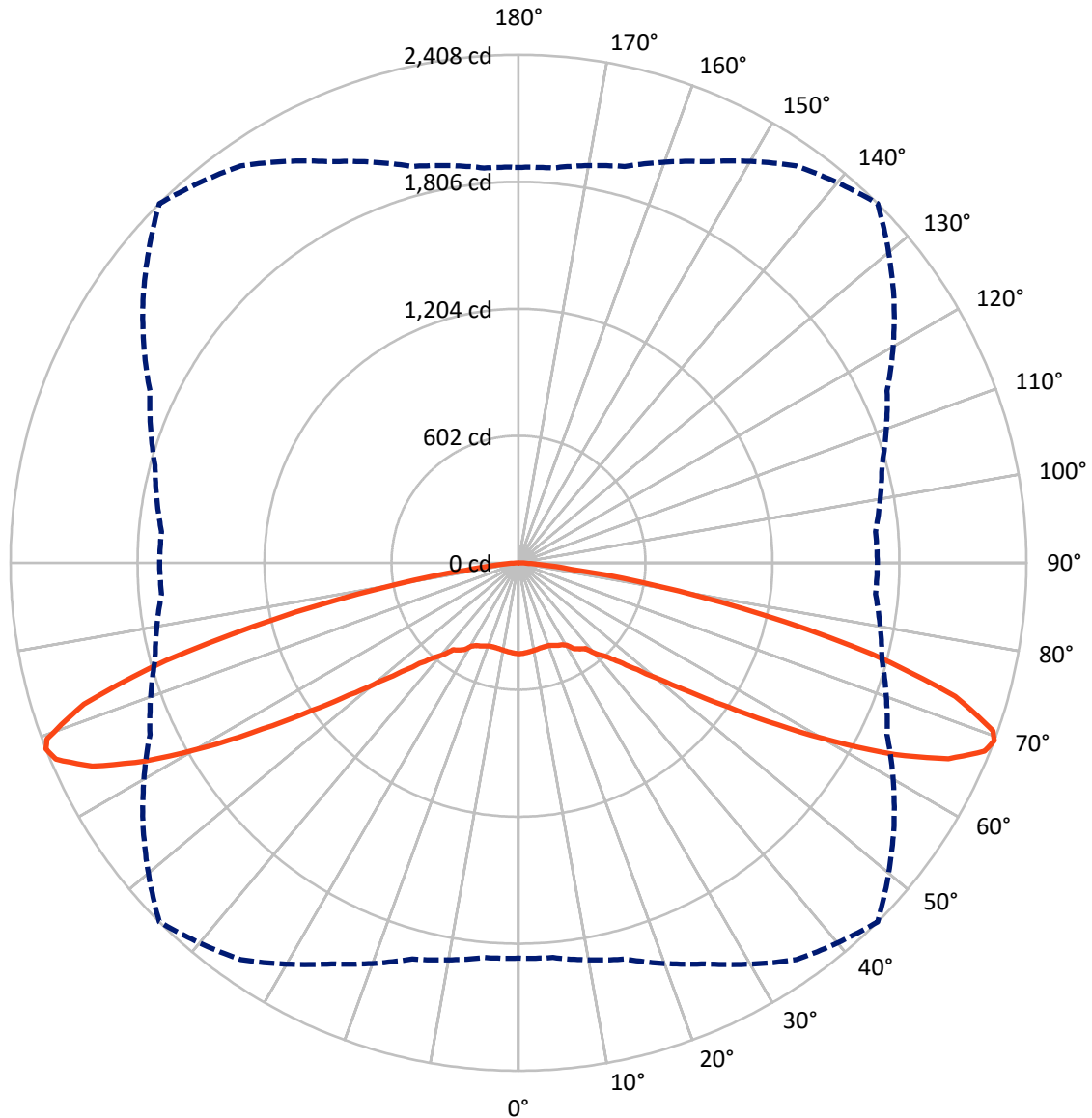
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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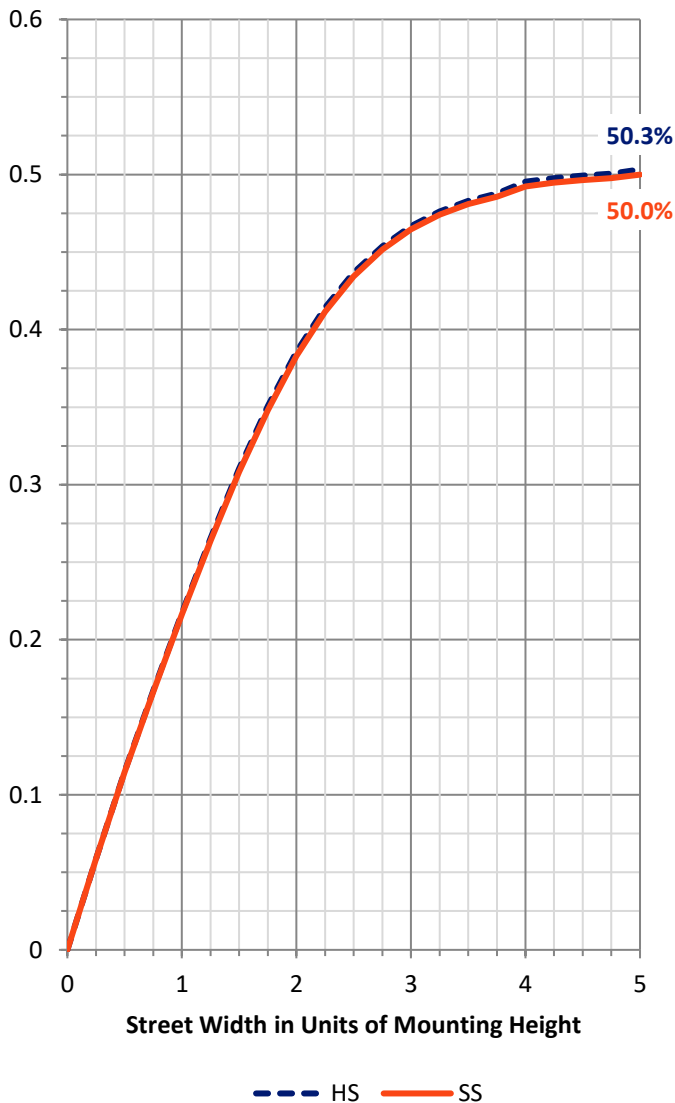
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2746.5	0.0	2746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2746.5	0.0	2746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5493.0	0.0	5493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	0.7
10°-20°	119.4	2.2
20°-30°	202.5	3.7
30°-40°	314.8	5.7
40°-50°	540.4	9.8
50°-60°	1075.2	19.6
60°-70°	1915.2	34.9
70°-80°	1206.2	22.0
80°-90°	78.8	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°	5493.0	100.0
0°-180°	5493.0	100.0

Coefficient of Utilization



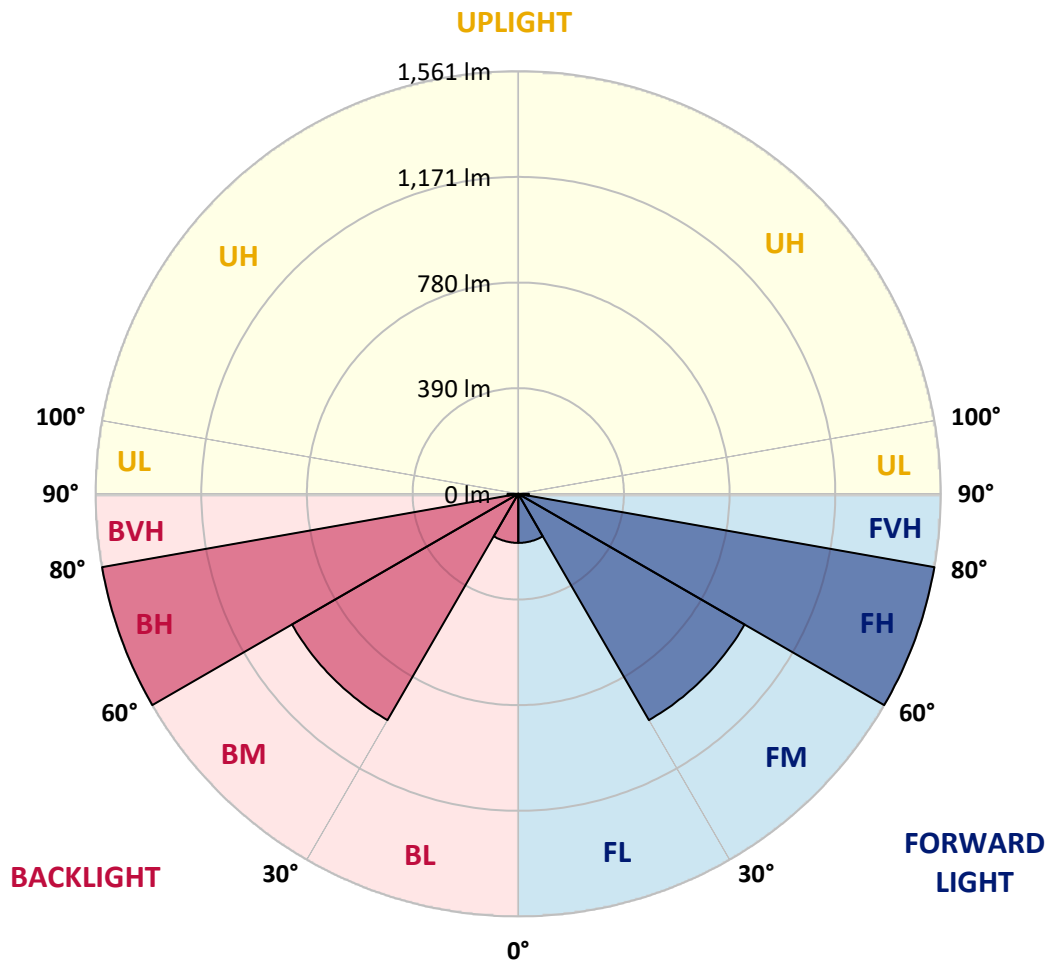
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.2	3.3			
FM (30°-60°)	965.2	17.6			
FH (60°-80°)	1560.7	28.4			G1/1800
FVH (80°-90°)	39.4	0.7			G1/100
BL (0°-30°)	181.2	3.3	B1/500		
BM (30°-60°)	965.2	17.6	B1/1000		
BH (60°-80°)	1560.7	28.4	B3/2500		G1/1800
BVH (80°-90°)	39.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0	431.0
2.5°	433.9	432.5	432.5	431.0	429.6	429.6	429.6	428.2	429.6	429.6	429.6
5°	432.5	431.0	429.6	428.2	428.2	426.7	428.2	426.7	426.7	426.7	426.7
7.5°	428.2	428.2	425.3	425.3	423.8	423.8	422.4	422.4	422.4	421.0	421.0
10°	428.2	426.7	425.3	422.4	421.0	421.0	421.0	419.5	421.0	421.0	421.0
12.5°	428.2	428.2	423.8	421.0	418.1	418.1	418.1	418.1	421.0	422.4	422.4
15°	431.0	429.6	425.3	419.5	416.6	416.6	416.6	418.1	421.0	423.8	423.8
17.5°	432.5	429.6	423.8	418.1	416.6	416.6	416.6	418.1	422.4	425.3	426.7
20°	433.9	432.5	425.3	419.5	418.1	418.1	418.1	418.1	422.4	426.7	428.2
22.5°	438.3	436.8	429.6	425.3	423.8	423.8	423.8	423.8	428.2	433.9	433.9
25°	444.0	441.1	433.9	431.0	431.0	433.9	433.9	431.0	435.4	439.7	441.1
27.5°	454.1	451.2	444.0	441.1	439.7	439.7	439.7	439.7	442.6	449.8	449.8
30°	462.8	461.3	458.4	458.4	457.0	454.1	454.1	457.0	458.4	461.3	462.8
32.5°	474.3	471.4	468.5	468.5	477.2	485.8	478.6	467.1	465.6	467.1	468.5
35°	498.8	495.9	488.7	484.4	493.0	501.7	490.2	482.9	487.3	491.6	491.6
37.5°	533.4	532.0	526.2	517.5	514.7	516.1	511.8	517.5	529.1	537.7	539.2
40°	569.4	568.0	562.2	557.9	559.3	566.6	563.7	557.9	565.1	570.9	570.9
42.5°	625.7	619.9	611.2	599.7	601.2	606.9	599.7	605.5	615.6	625.7	627.1
45°	700.6	694.9	683.3	673.2	666.0	668.9	668.9	679.0	690.5	702.1	706.4
47.5°	781.4	779.9	768.4	759.7	752.5	756.9	756.9	756.9	775.6	787.1	787.1
50°	880.8	876.5	876.5	869.3	866.4	867.9	862.1	867.9	876.5	879.4	875.1
52.5°	999.0	994.7	997.6	1000.5	1007.7	1017.8	1003.4	1001.9	997.6	993.3	991.8
55°	1140.3	1144.6	1156.2	1174.9	1186.5	1206.6	1185.0	1159.1	1147.5	1136.0	1127.3
57.5°	1309.0	1316.2	1333.5	1378.2	1427.2	1445.9	1408.5	1360.9	1320.5	1287.4	1294.6
60°	1529.6	1525.2	1554.1	1614.6	1683.8	1721.3	1662.2	1584.3	1519.5	1503.6	1507.9
62.5°	1764.5	1773.2	1793.4	1874.1	1960.6	2001.0	1928.9	1813.6	1729.9	1686.7	1686.7
65°	1911.6	1917.4	1973.6	2087.5	2184.1	2238.8	2136.5	1969.3	1849.6	1777.5	1773.2
67.5°	1933.2	1939.0	2002.4	2148.0	2306.6	2383.0	2205.7	1988.0	1848.2	1760.2	1757.3
69°	1874.1	1878.4	1944.7	2097.6	2296.5	2407.5	2172.5	1927.4	1783.3	1698.2	1701.1
70°	1789.0	1806.3	1856.8	2012.5	2243.2	2385.9	2112.0	1859.7	1709.8	1642.0	1630.5
72.5°	1402.7	1414.2	1497.8	1691.0	2002.4	2165.3	1855.4	1574.2	1421.4	1350.8	1368.1
75°	794.3	791.4	898.1	1174.9	1544.0	1734.3	1460.4	1133.1	911.1	826.0	837.6
77.5°	302.7	315.7	387.8	602.6	970.2	1185.0	968.8	605.5	423.8	330.1	314.3
80°	98.0	103.8	137.0	219.1	413.7	668.9	452.7	233.5	147.0	111.0	103.8
82.5°	38.9	43.2	51.9	73.5	139.8	252.3	152.8	85.1	63.4	51.9	47.6
85°	21.6	20.2	27.4	33.2	47.6	72.1	51.9	40.4	34.6	24.5	23.1
87.5°	7.2	7.2	11.5	11.5	13.0	11.5	13.0	14.4	14.4	8.6	7.2
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)