

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: P799983

Luminaire Tested: **ARCH2-70-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8746 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

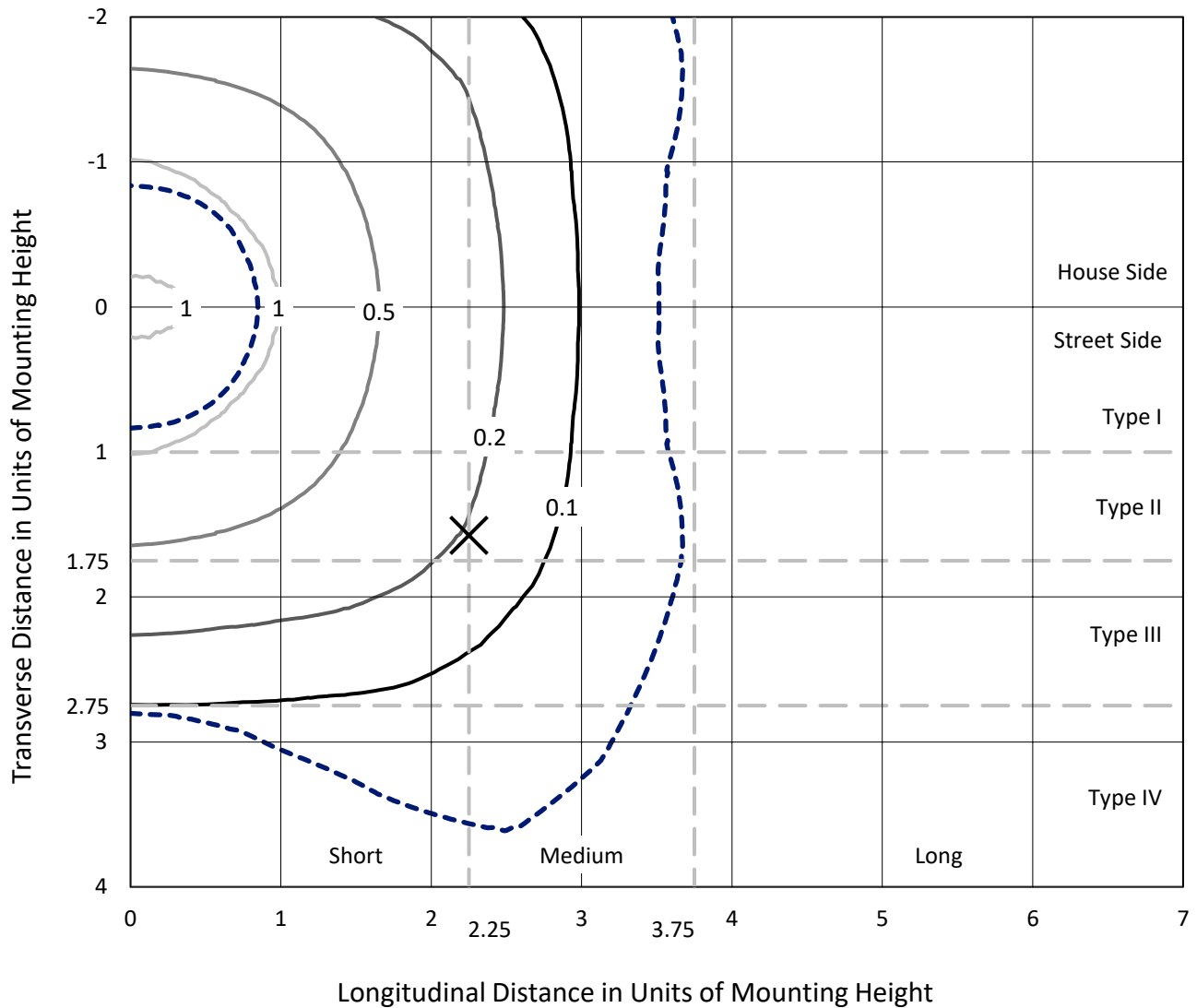
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

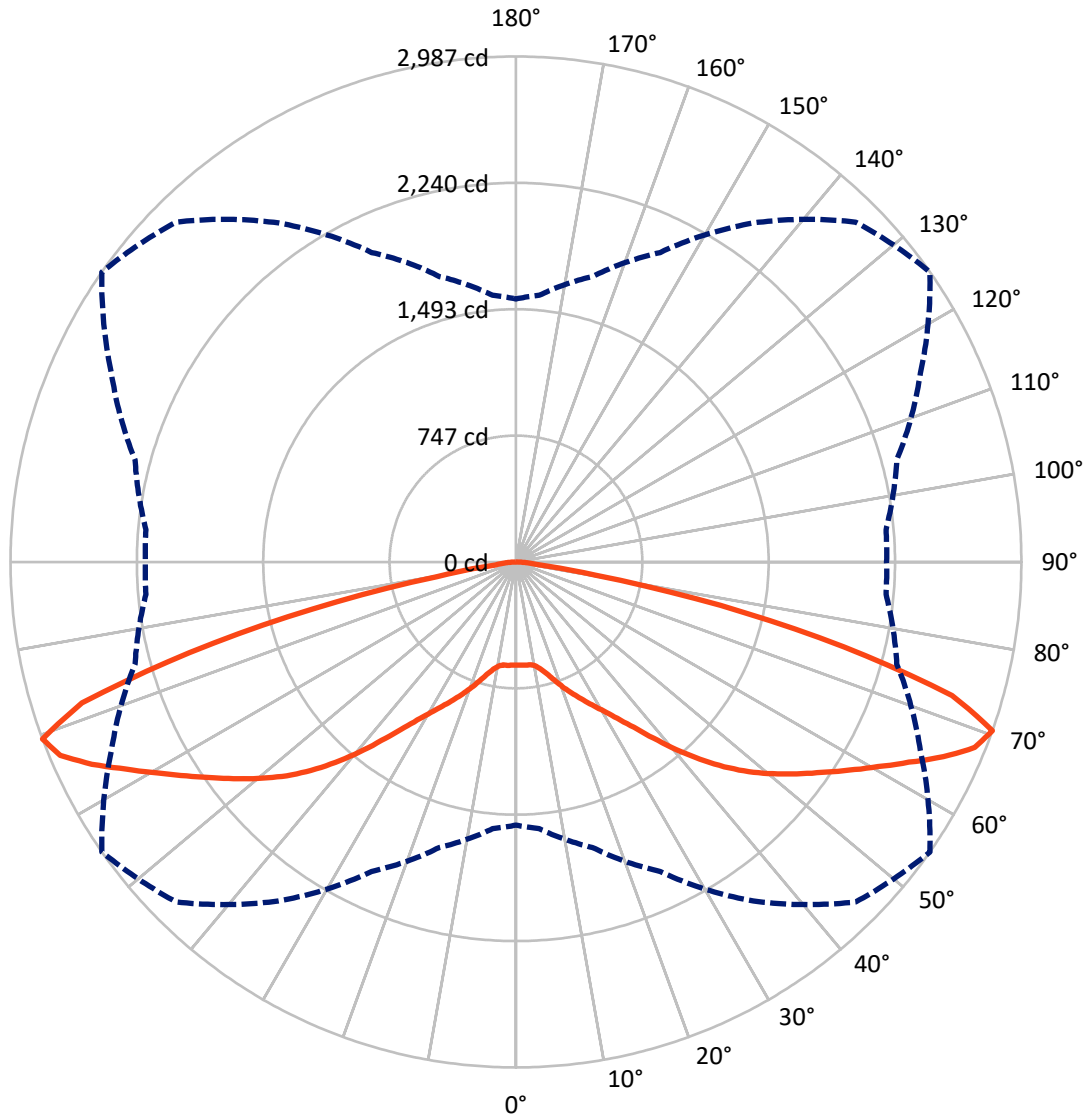
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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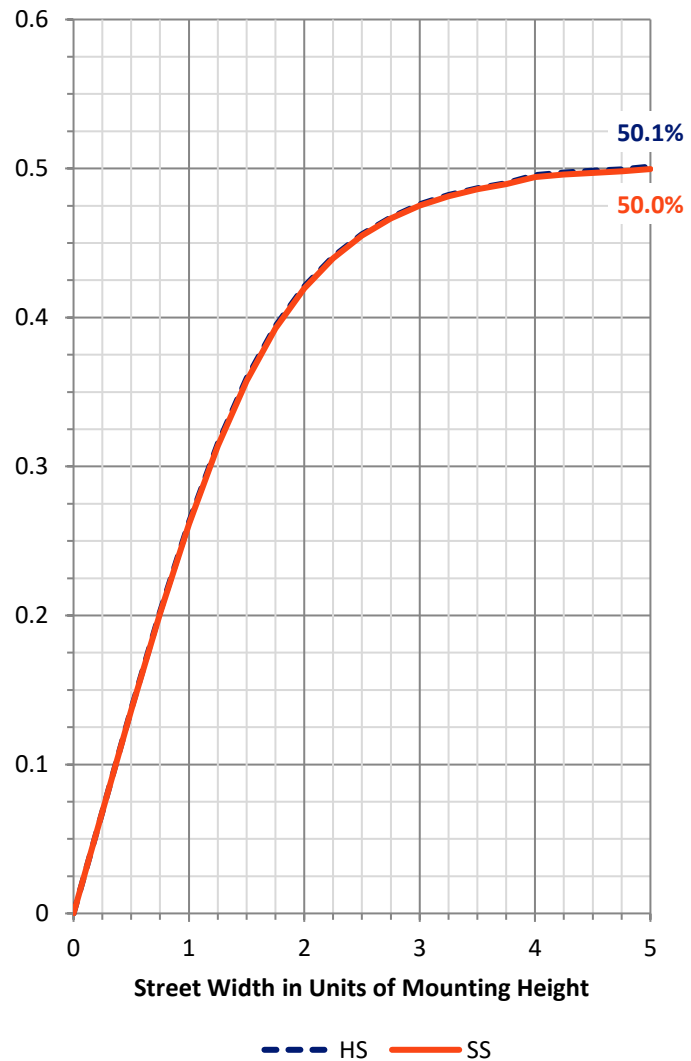
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4373.0	0.0	4373.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4373.0	0.0	4373.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8746.0	0.0	8746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	0.7
10°-20°	200.3	2.3
20°-30°	416.2	4.8
30°-40°	768.8	8.8
40°-50°	1350.5	15.4
50°-60°	1947.8	22.3
60°-70°	2383.9	27.3
70°-80°	1516.9	17.3
80°-90°	102.6	1.2
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°	8746.0	100.0
0°-180°	8746.0	100.0

Coefficient of Utilization



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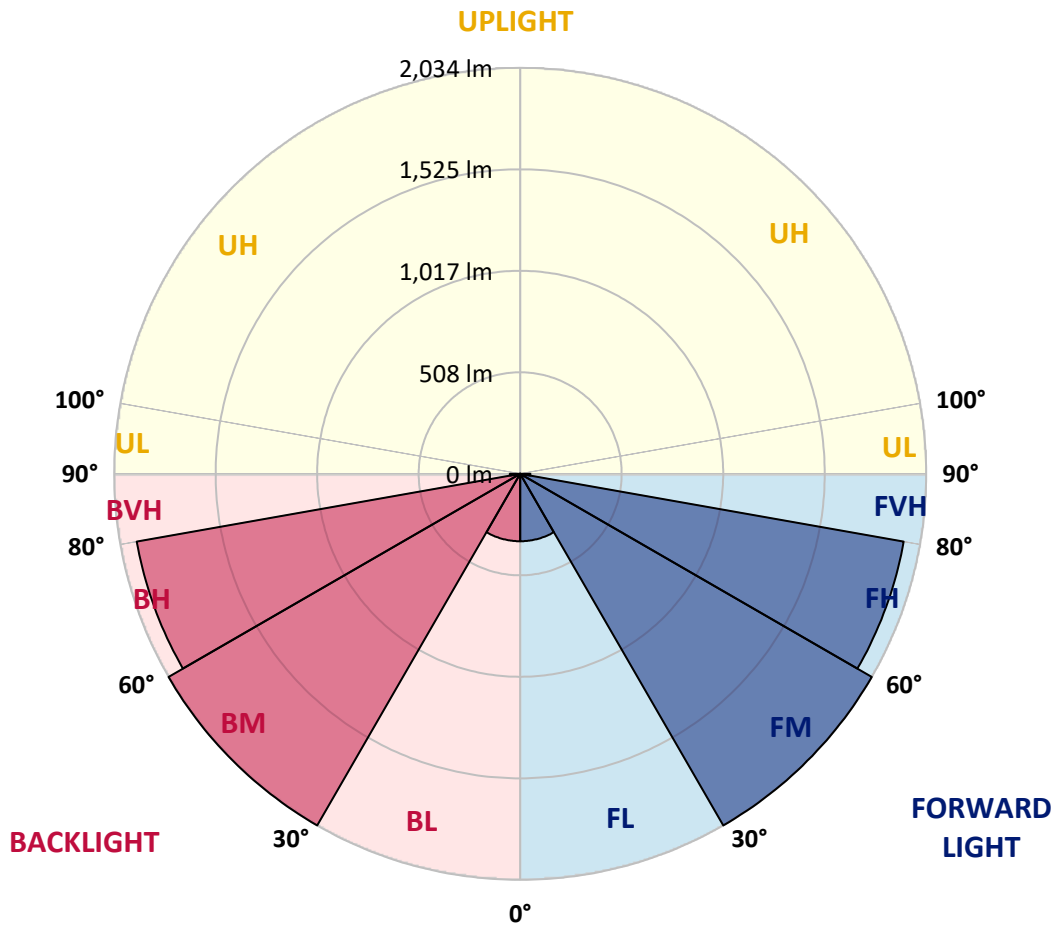
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.7	3.9			
FM (30°-60°)	2033.6	23.3			
FH (60°-80°)	1950.4	22.3			G2/5000
FVH (80°-90°)	51.3	0.6			G1/100
BL (0°-30°)	337.7	3.9	B1/500		
BM (30°-60°)	2033.6	23.3	B2/2500		
BH (60°-80°)	1950.4	22.3	B3/2500		G2/5000
BVH (80°-90°)	51.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	617.8	617.8	616.2	616.2	612.9	611.3	609.7	609.7	608.1	608.1	606.4
5°	621.1	621.1	621.1	619.4	617.8	616.2	612.9	609.7	608.1	606.4	604.8
7.5°	622.7	622.7	621.1	621.1	619.4	617.8	612.9	608.1	606.4	604.8	604.8
10°	635.7	634.1	632.4	629.2	629.2	629.2	622.7	617.8	616.2	616.2	616.2
12.5°	666.6	665.0	661.7	656.8	656.8	658.5	648.7	642.2	642.2	640.6	640.6
15°	712.1	710.5	707.2	699.1	697.5	700.7	686.1	679.6	679.6	679.6	678.0
17.5°	762.5	759.3	754.4	747.9	747.9	747.9	733.2	725.1	720.2	720.2	718.6
20°	804.8	803.2	803.2	801.5	806.4	806.4	786.9	773.9	762.5	756.0	754.4
22.5°	842.2	840.5	843.8	850.3	860.1	863.3	840.5	821.0	803.2	790.1	786.9
25°	892.6	890.9	889.3	899.1	915.3	920.2	895.8	871.4	853.6	847.0	843.8
27.5°	946.2	947.8	949.5	959.2	972.2	980.4	956.0	933.2	918.6	908.8	905.6
30°	1006.4	1009.6	1014.5	1029.1	1038.9	1042.1	1021.0	1004.8	991.7	983.6	978.7
32.5°	1082.8	1089.3	1095.8	1108.8	1113.7	1110.4	1100.7	1089.3	1079.5	1068.2	1066.5
35°	1196.6	1203.1	1201.5	1206.4	1208.0	1204.7	1199.8	1193.3	1188.5	1173.8	1172.2
37.5°	1339.7	1346.2	1336.4	1331.5	1320.2	1321.8	1320.2	1325.0	1326.7	1312.0	1310.4
40°	1484.4	1490.9	1477.9	1464.9	1453.5	1448.6	1456.7	1473.0	1473.0	1463.2	1463.2
42.5°	1638.8	1643.7	1622.6	1606.3	1591.7	1588.4	1593.3	1612.8	1617.7	1616.1	1616.1
45°	1793.3	1790.0	1762.4	1746.1	1733.1	1725.0	1726.6	1741.2	1751.0	1755.9	1755.9
47.5°	1912.0	1907.1	1884.3	1871.3	1863.2	1851.8	1851.8	1859.9	1864.8	1866.4	1866.4
50°	2006.2	2001.4	1978.6	1977.0	1977.0	1972.1	1967.2	1965.6	1962.4	1964.0	1964.0
52.5°	2087.5	2081.0	2064.8	2068.0	2082.7	2085.9	2079.4	2066.4	2053.4	2048.5	2050.1
55°	2175.3	2165.6	2152.6	2162.3	2191.6	2204.6	2194.8	2168.8	2146.1	2131.4	2131.4
57.5°	2245.2	2233.9	2233.9	2261.5	2315.2	2341.2	2320.0	2271.3	2232.2	2216.0	2217.6
60°	2196.5	2186.7	2225.7	2347.7	2448.5	2492.4	2456.6	2370.4	2307.0	2287.5	2290.8
62.5°	2100.5	2094.0	2142.8	2331.4	2568.8	2659.8	2606.2	2482.6	2388.3	2365.6	2365.6
65°	1959.1	1957.5	2025.8	2258.2	2596.4	2820.8	2775.3	2604.5	2482.6	2451.7	2458.2
67.5°	1812.8	1812.8	1874.6	2133.1	2563.9	2889.1	2924.8	2715.1	2528.1	2451.7	2453.3
70°	1554.3	1581.9	1746.1	2017.6	2445.2	2840.3	2986.6	2637.1	2329.8	2194.8	2190.0
72.5°	1024.3	1060.0	1386.8	1816.0	2328.2	2663.1	2695.6	2316.8	1934.7	1777.0	1768.9
75°	617.8	648.7	899.1	1417.7	2046.9	2144.4	2001.4	1816.0	1445.3	1321.8	1321.8
77.5°	182.1	203.2	414.6	899.1	1416.1	1409.6	1234.0	1069.8	855.2	726.7	736.5
80°	107.3	110.6	134.9	409.7	586.9	617.8	476.4	297.5	297.5	221.1	214.6
82.5°	82.9	82.9	86.2	102.4	141.4	157.7	120.3	102.4	117.1	99.2	94.3
85°	58.5	58.5	58.5	60.2	61.8	63.4	66.7	68.3	74.8	61.8	58.5
87.5°	17.9	19.5	21.1	24.4	29.3	30.9	32.5	29.3	29.3	27.6	26.0
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)