

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: P798975

Luminaire Tested: **ARCH1-50-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798975
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: ARCH1-50-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6318 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

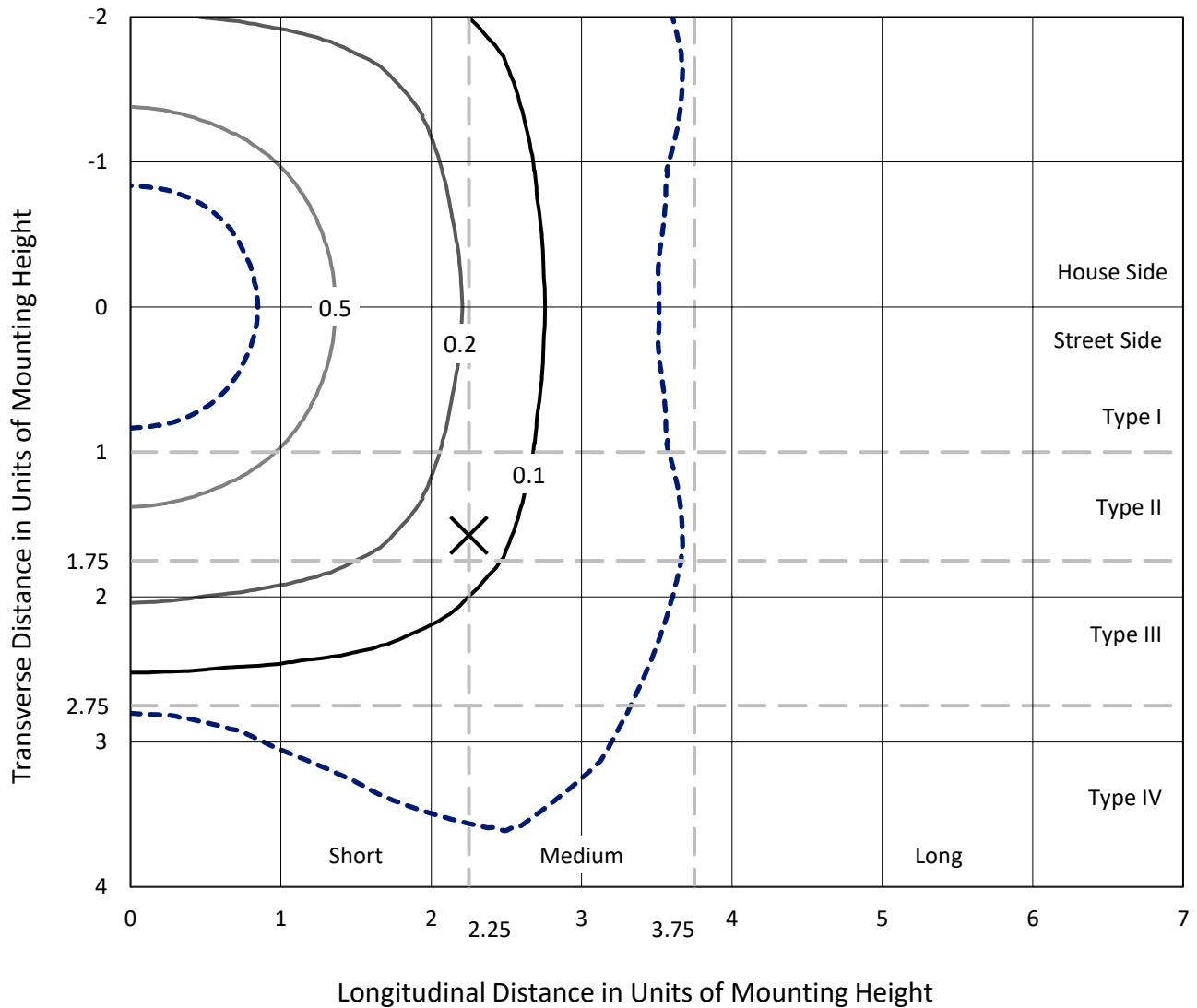
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

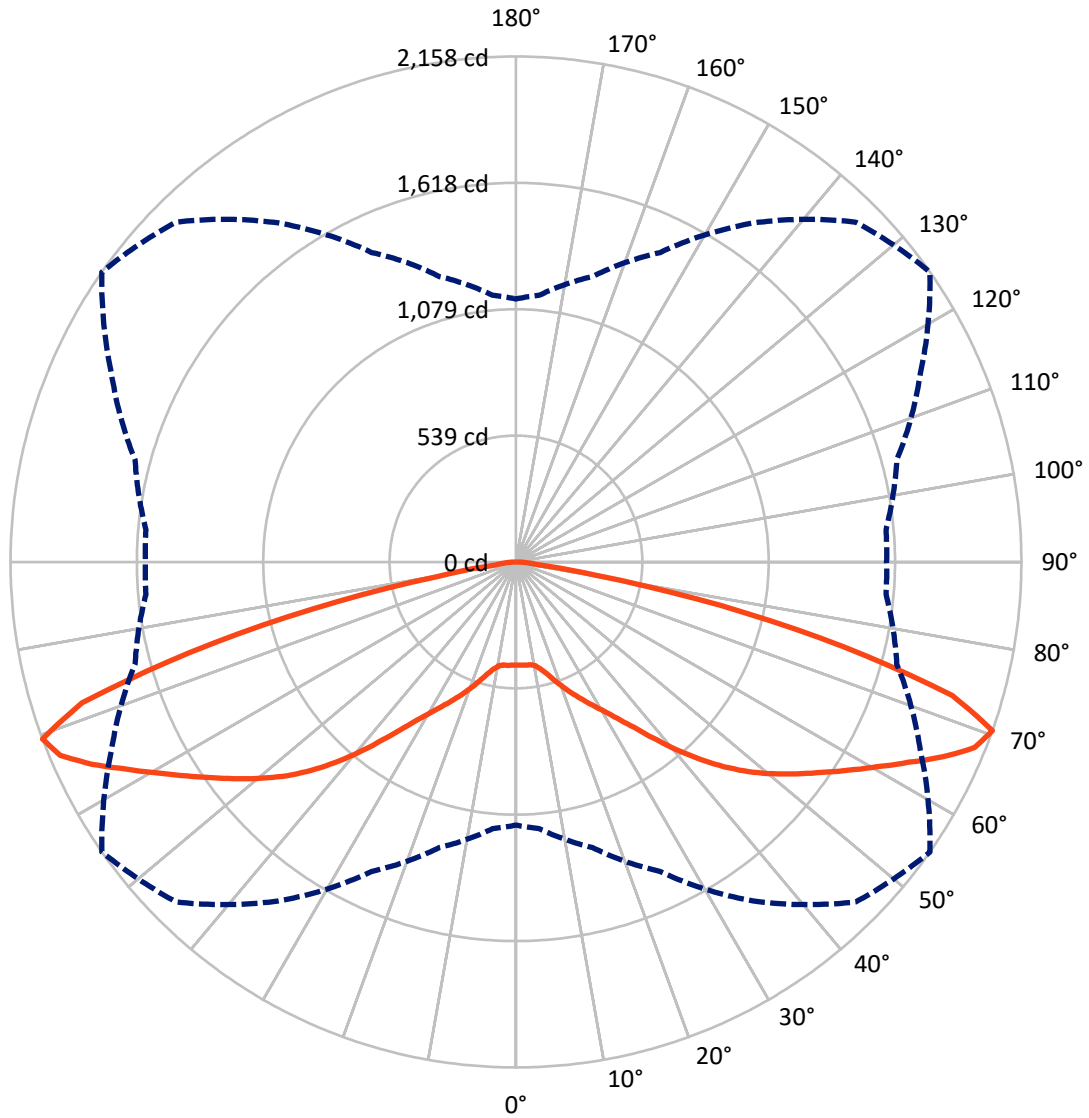
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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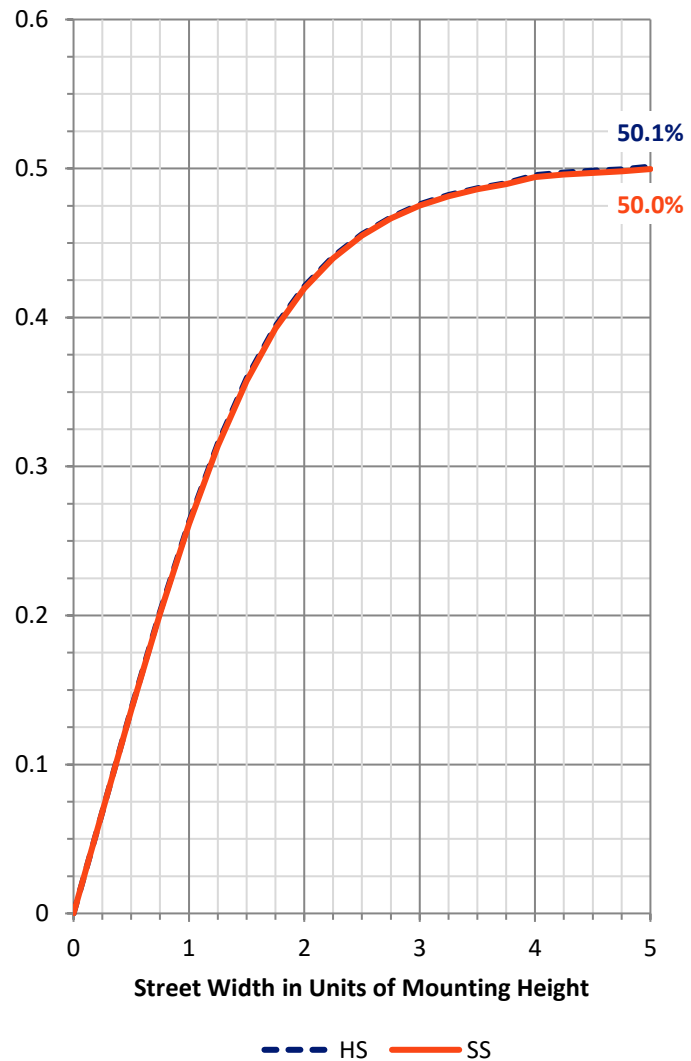
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3159.0	0.0	3159.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3159.0	0.0	3159.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6318.0	0.0	6318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	0.7
10°-20°	144.7	2.3
20°-30°	300.7	4.8
30°-40°	555.3	8.8
40°-50°	975.6	15.4
50°-60°	1407.1	22.3
60°-70°	1722.1	27.3
70°-80°	1095.8	17.3
80°-90°	74.1	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°	6318.0	100.0
0°-180°	6318.0	100.0

Coefficient of Utilization



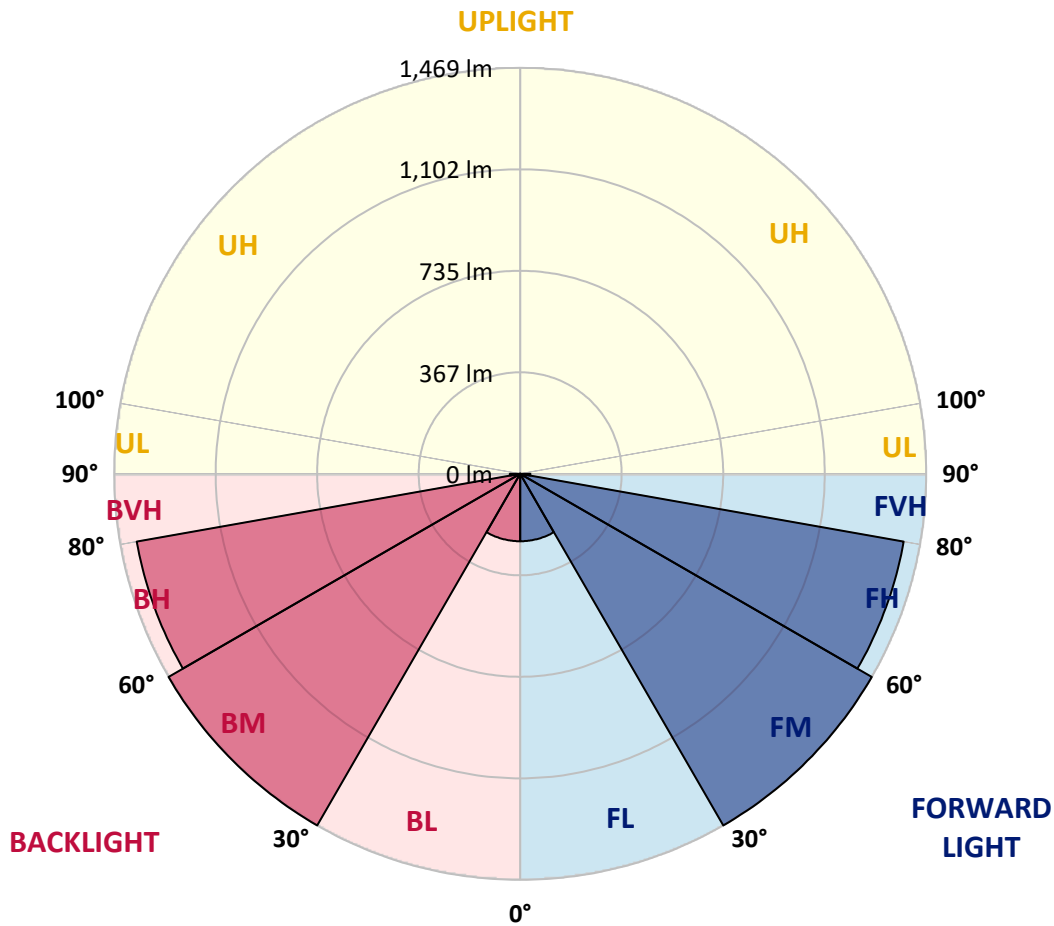
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.0	3.9			
FM (30°-60°)	1469.0	23.3			
FH (60°-80°)	1409.0	22.3			G1/1800
FVH (80°-90°)	37.1	0.6			G1/100
BL (0°-30°)	244.0	3.9	B1/500		
BM (30°-60°)	1469.0	23.3	B2/2500		
BH (60°-80°)	1409.0	22.3	B3/2500		G1/1800
BVH (80°-90°)	37.1	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-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4
2.5°	446.3	446.3	445.1	445.1	442.8	441.6	440.4	440.4	439.2	439.2	438.1
5°	448.6	448.6	448.6	447.5	446.3	445.1	442.8	440.4	439.2	438.1	436.9
7.5°	449.8	449.8	448.6	448.6	447.5	446.3	442.8	439.2	438.1	436.9	436.9
10°	459.2	458.0	456.9	454.5	454.5	454.5	449.8	446.3	445.1	445.1	445.1
12.5°	481.5	480.4	478.0	474.5	474.5	475.7	468.6	463.9	463.9	462.7	462.7
15°	514.4	513.2	510.9	505.0	503.8	506.2	495.6	490.9	490.9	490.9	489.8
17.5°	550.8	548.5	545.0	540.3	540.3	540.3	529.7	523.8	520.3	520.3	519.1
20°	581.4	580.2	580.2	579.0	582.5	582.5	568.4	559.0	550.8	546.1	545.0
22.5°	608.4	607.2	609.5	614.2	621.3	623.6	607.2	593.1	580.2	570.8	568.4
25°	644.8	643.6	642.4	649.5	661.2	664.7	647.1	629.5	616.6	611.9	609.5
27.5°	683.5	684.7	685.9	692.9	702.3	708.2	690.6	674.1	663.6	656.5	654.2
30°	727.0	729.3	732.9	743.4	750.5	752.8	737.6	725.8	716.4	710.6	707.0
32.5°	782.2	786.9	791.6	801.0	804.5	802.2	795.1	786.9	779.8	771.6	770.4
35°	864.4	869.1	867.9	871.5	872.6	870.3	866.8	862.1	858.5	848.0	846.8
37.5°	967.8	972.5	965.4	961.9	953.7	954.8	953.7	957.2	958.4	947.8	946.6
40°	1072.3	1077.0	1067.6	1058.2	1050.0	1046.4	1052.3	1064.1	1064.1	1057.0	1057.0
42.5°	1183.9	1187.4	1172.1	1160.4	1149.8	1147.5	1151.0	1165.1	1168.6	1167.4	1167.4
45°	1295.4	1293.1	1273.1	1261.4	1252.0	1246.1	1247.3	1257.9	1264.9	1268.4	1268.4
47.5°	1381.2	1377.6	1361.2	1351.8	1345.9	1337.7	1337.7	1343.6	1347.1	1348.3	1348.3
50°	1449.3	1445.8	1429.3	1428.1	1428.1	1424.6	1421.1	1419.9	1417.6	1418.8	1418.8
52.5°	1508.0	1503.3	1491.6	1493.9	1504.5	1506.8	1502.1	1492.7	1483.3	1479.8	1481.0
55°	1571.4	1564.4	1555.0	1562.0	1583.2	1592.6	1585.5	1566.7	1550.3	1539.7	1539.7
57.5°	1621.9	1613.7	1613.7	1633.7	1672.4	1691.2	1676.0	1640.7	1612.5	1600.8	1602.0
60°	1586.7	1579.7	1607.8	1695.9	1768.7	1800.5	1774.6	1712.4	1666.6	1652.5	1654.8
62.5°	1517.4	1512.7	1547.9	1684.2	1855.7	1921.4	1882.7	1793.4	1725.3	1708.8	1708.8
65°	1415.2	1414.1	1463.4	1631.3	1875.6	2037.7	2004.8	1881.5	1793.4	1771.1	1775.8
67.5°	1309.5	1309.5	1354.2	1540.9	1852.1	2087.0	2112.9	1961.4	1826.3	1771.1	1772.3
70°	1122.8	1142.8	1261.4	1457.5	1766.4	2051.8	2157.5	1905.0	1683.0	1585.5	1582.0
72.5°	739.9	765.8	1001.8	1311.9	1681.8	1923.8	1947.3	1673.6	1397.6	1283.7	1277.8
75°	446.3	468.6	649.5	1024.1	1478.7	1549.1	1445.8	1311.9	1044.1	954.8	954.8
77.5°	131.5	146.8	299.5	649.5	1023.0	1018.3	891.4	772.8	617.8	525.0	532.0
80°	77.5	79.9	97.5	296.0	424.0	446.3	344.1	214.9	214.9	159.7	155.0
82.5°	59.9	59.9	62.2	74.0	102.2	113.9	86.9	74.0	84.6	71.6	68.1
85°	42.3	42.3	42.3	43.5	44.6	45.8	48.2	49.3	54.0	44.6	42.3
87.5°	12.9	14.1	15.3	17.6	21.1	22.3	23.5	21.1	21.1	20.0	18.8
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)