

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: P799087

Luminaire Tested: **ARCH1-60-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799087
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: ARCH1-60-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6210 lumens
Efficiency: N/A
Efficacy: 103.5 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

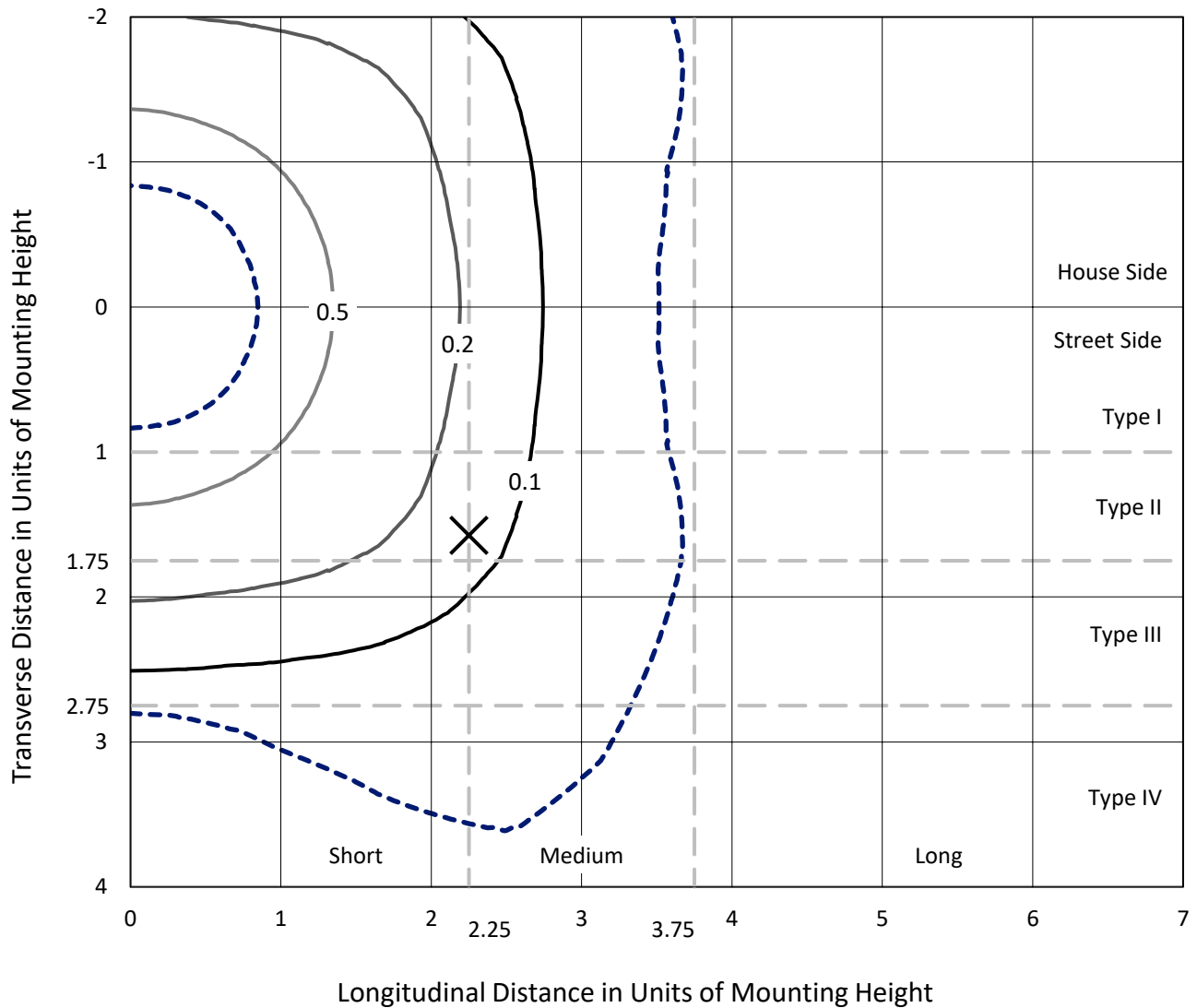
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799087
 CATALOG NUMBER: ARCH1-60-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

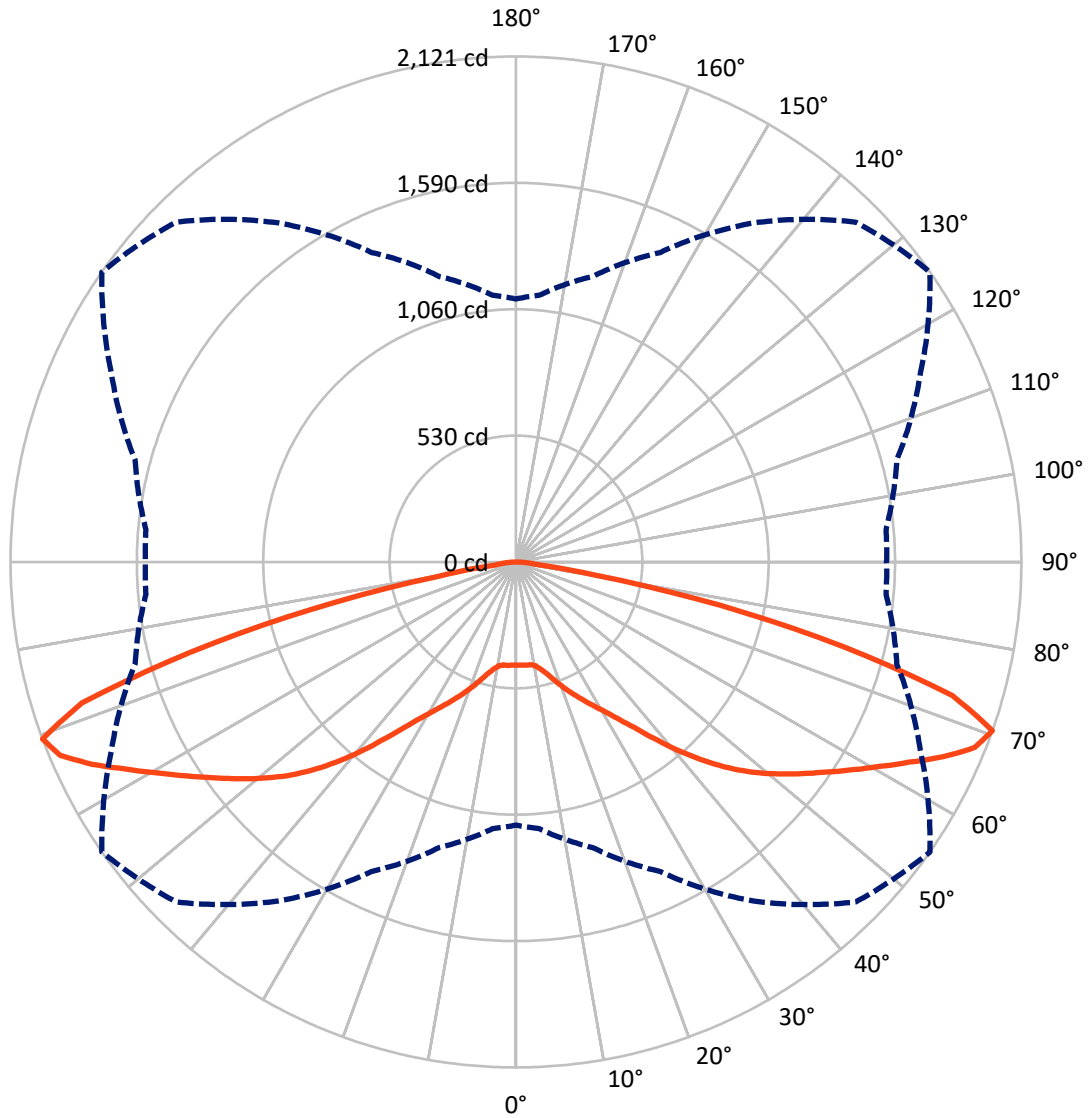
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Medium - N/A

REPORT NUMBER: P799087
CATALOG NUMBER: ARCH1-60-722-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P799087
 CATALOG NUMBER: ARCH1-60-722-U-5WQ

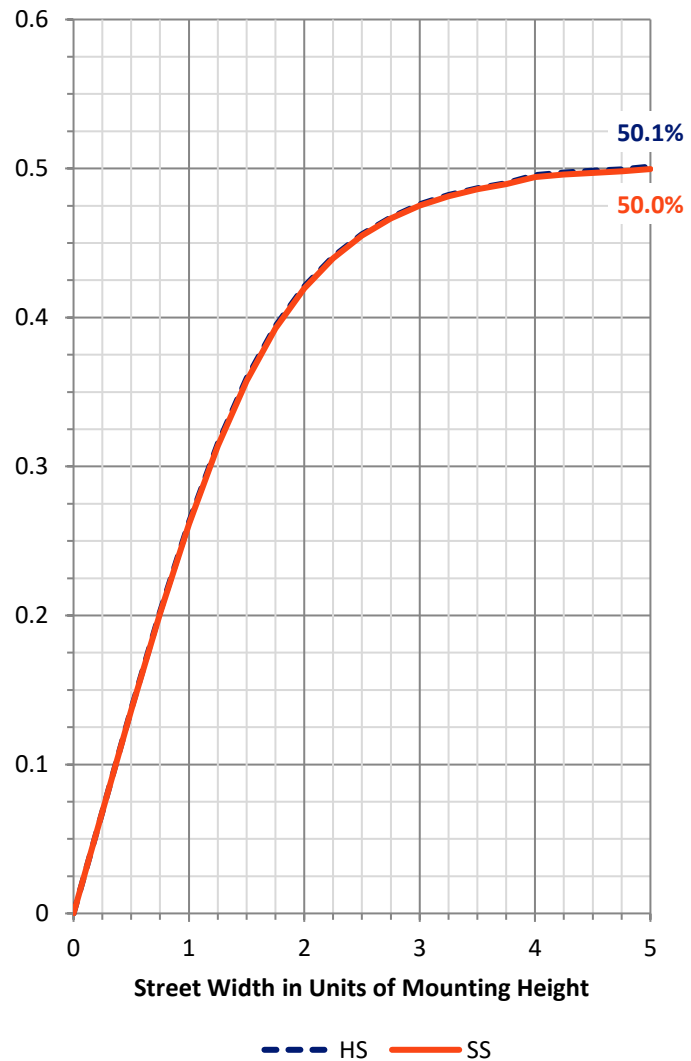
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.0	0.0	3105.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3105.0	0.0	3105.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6210.0	0.0	6210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.7
10°-20°	142.2	2.3
20°-30°	295.5	4.8
30°-40°	545.8	8.8
40°-50°	958.9	15.4
50°-60°	1383.0	22.3
60°-70°	1692.7	27.3
70°-80°	1077.1	17.3
80°-90°	72.9	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°	6210.0	100.0
0°-180°	6210.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799087

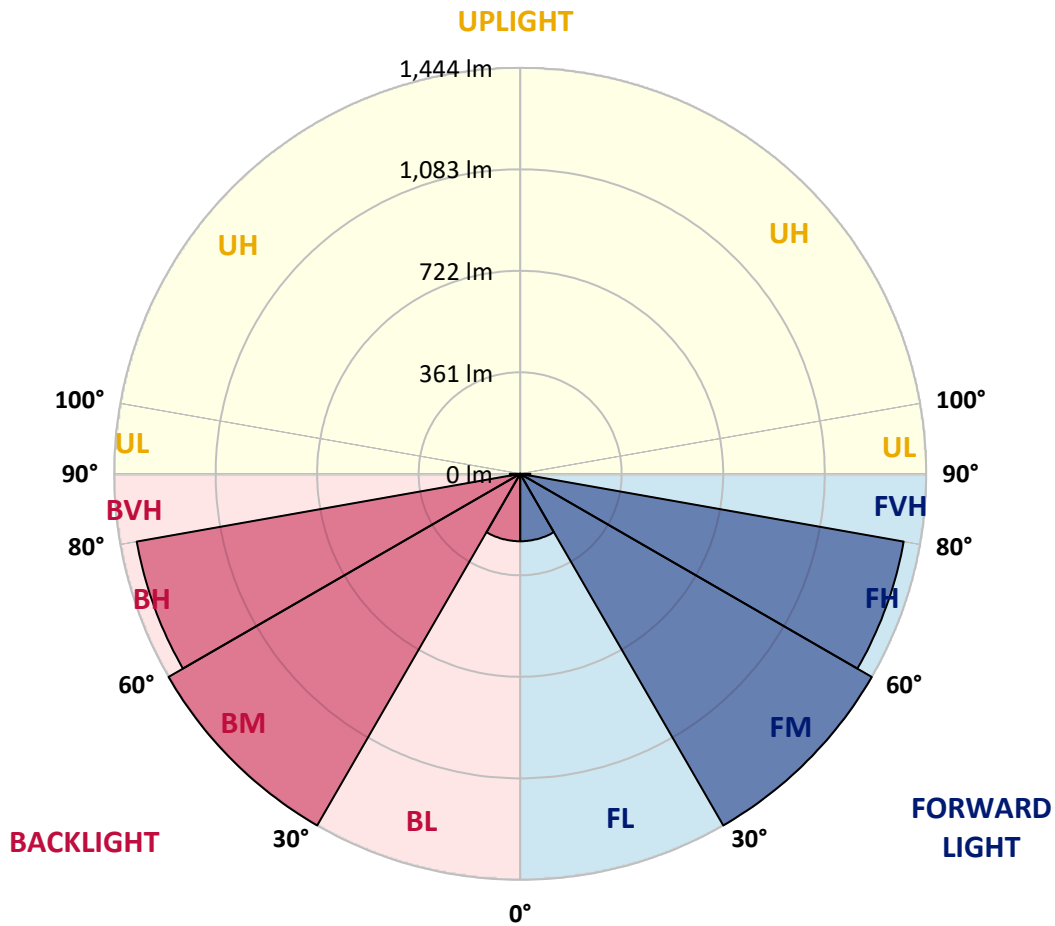
CATALOG NUMBER: ARCH1-60-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.8	3.9			
FM (30°-60°)	1443.9	23.3			
FH (60°-80°)	1384.9	22.3			G1/1800
FVH (80°-90°)	36.4	0.6			G1/100
BL (0°-30°)	239.8	3.9	B1/500		
BM (30°-60°)	1443.9	23.3	B2/2500		
BH (60°-80°)	1384.9	22.3	B3/2500		G1/1800
BVH (80°-90°)	36.4	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



REPORT NUMBER: P799087
 CATALOG NUMBER: ARCH1-60-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9	432.9
2.5°	438.7	438.7	437.5	437.5	435.2	434.0	432.9	432.9	431.7	431.7	430.6
5°	441.0	441.0	441.0	439.8	438.7	437.5	435.2	432.9	431.7	430.6	429.4
7.5°	442.1	442.1	441.0	441.0	439.8	438.7	435.2	431.7	430.6	429.4	429.4
10°	451.4	450.2	449.1	446.7	446.7	446.7	442.1	438.7	437.5	437.5	437.5
12.5°	473.3	472.1	469.8	466.4	466.4	467.5	460.6	456.0	456.0	454.8	454.8
15°	505.6	504.5	502.2	496.4	495.2	497.5	487.2	482.5	482.5	482.5	481.4
17.5°	541.4	539.1	535.6	531.0	531.0	531.0	520.6	514.9	511.4	511.4	510.2
20°	571.4	570.3	570.3	569.1	572.6	572.6	558.7	549.5	541.4	536.8	535.6
22.5°	598.0	596.8	599.1	603.7	610.7	613.0	596.8	583.0	570.3	561.0	558.7
25°	633.8	632.6	631.5	638.4	649.9	653.4	636.1	618.8	606.1	601.4	599.1
27.5°	671.9	673.0	674.2	681.1	690.3	696.1	678.8	662.6	652.2	645.3	643.0
30°	714.6	716.9	720.3	730.7	737.7	740.0	725.0	713.4	704.2	698.4	694.9
32.5°	768.8	773.4	778.1	787.3	790.8	788.4	781.5	773.4	766.5	758.4	757.3
35°	849.6	854.2	853.1	856.6	857.7	855.4	851.9	847.3	843.9	833.5	832.3
37.5°	951.2	955.8	948.9	945.4	937.4	938.5	937.4	940.8	942.0	931.6	930.4
40°	1054.0	1058.6	1049.3	1040.1	1032.0	1028.6	1034.3	1045.9	1045.9	1038.9	1038.9
42.5°	1163.6	1167.1	1152.1	1140.5	1130.1	1127.8	1131.3	1145.2	1148.6	1147.5	1147.5
45°	1273.3	1271.0	1251.4	1239.8	1230.6	1224.8	1226.0	1236.3	1243.3	1246.7	1246.7
47.5°	1357.6	1354.1	1337.9	1328.7	1322.9	1314.8	1314.8	1320.6	1324.1	1325.2	1325.2
50°	1424.5	1421.1	1404.9	1403.7	1403.7	1400.3	1396.8	1395.7	1393.3	1394.5	1394.5
52.5°	1482.2	1477.6	1466.1	1468.4	1478.8	1481.1	1476.5	1467.2	1458.0	1454.5	1455.7
55°	1544.6	1537.6	1528.4	1535.3	1556.1	1565.4	1558.4	1540.0	1523.8	1513.4	1513.4
57.5°	1594.2	1586.1	1586.1	1605.8	1643.8	1662.3	1647.3	1612.7	1585.0	1573.4	1574.6
60°	1559.6	1552.7	1580.4	1666.9	1738.5	1769.7	1744.3	1683.1	1638.1	1624.2	1626.5
62.5°	1491.5	1486.9	1521.5	1655.4	1823.9	1888.6	1850.5	1762.8	1695.8	1679.6	1679.6
65°	1391.0	1389.9	1438.4	1603.4	1843.6	2002.9	1970.5	1849.3	1762.8	1740.8	1745.4
67.5°	1287.1	1287.1	1331.0	1514.6	1820.5	2051.3	2076.7	1927.8	1795.1	1740.8	1742.0
70°	1103.6	1123.2	1239.8	1432.6	1736.2	2016.7	2120.6	1872.4	1654.2	1558.4	1555.0
72.5°	727.3	752.7	984.7	1289.5	1653.1	1890.9	1914.0	1645.0	1373.7	1261.7	1256.0
75°	438.7	460.6	638.4	1006.6	1453.4	1522.6	1421.1	1289.5	1026.3	938.5	938.5
77.5°	129.3	144.3	294.4	638.4	1005.5	1000.9	876.2	759.6	607.2	516.0	522.9
80°	76.2	78.5	95.8	290.9	416.7	438.7	338.2	211.3	211.3	157.0	152.4
82.5°	58.9	58.9	61.2	72.7	100.4	112.0	85.4	72.7	83.1	70.4	67.0
85°	41.6	41.6	41.6	42.7	43.9	45.0	47.3	48.5	53.1	43.9	41.6
87.5°	12.7	13.9	15.0	17.3	20.8	21.9	23.1	20.8	20.8	19.6	18.5
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)