

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: P799759

Luminaire Tested: **ARCH2-50-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799759
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: ARCH2-50-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7729 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

Input Watts (W): 54
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

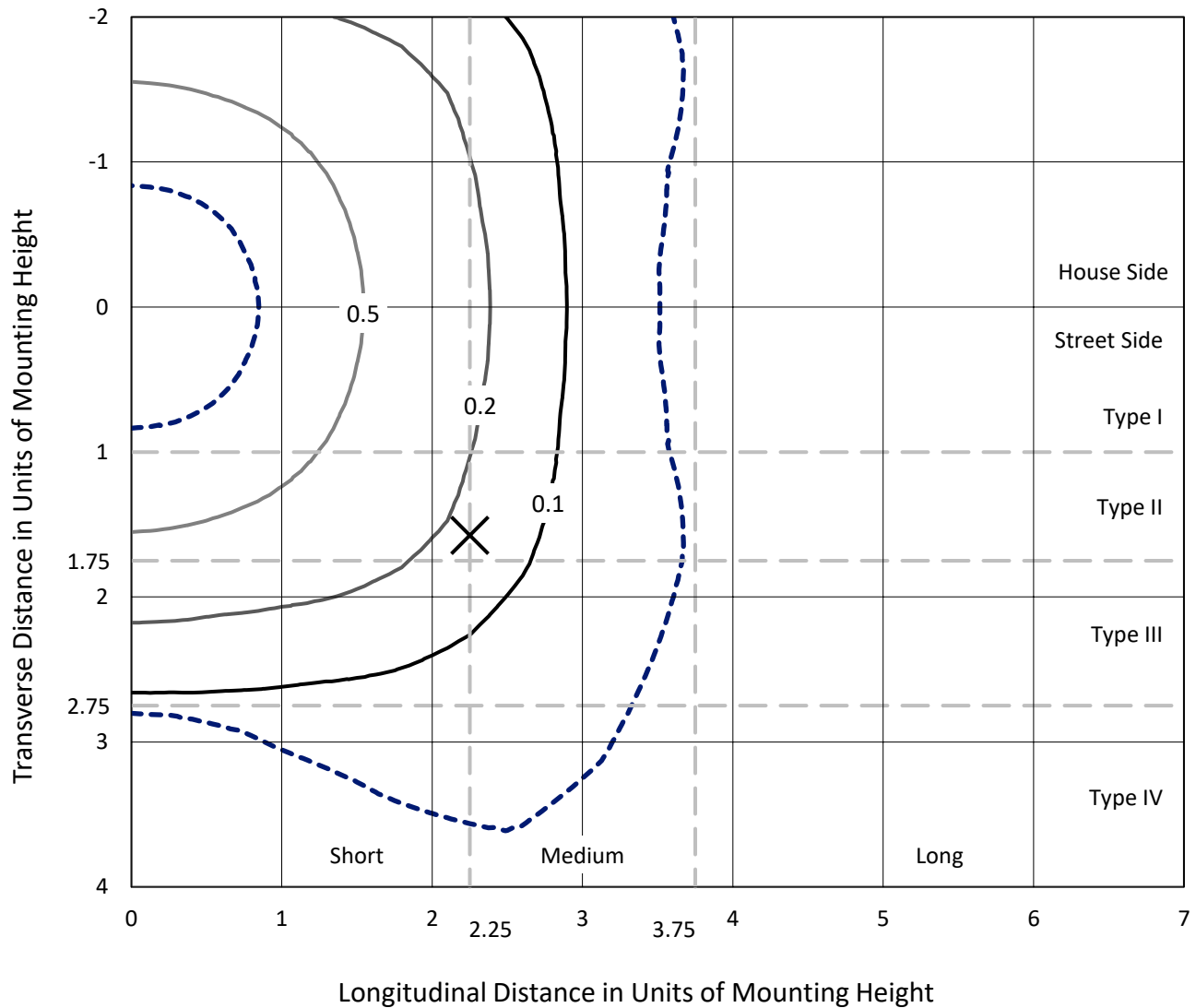


REPORT NUMBER: P799759

CATALOG NUMBER: ARCH2-50-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

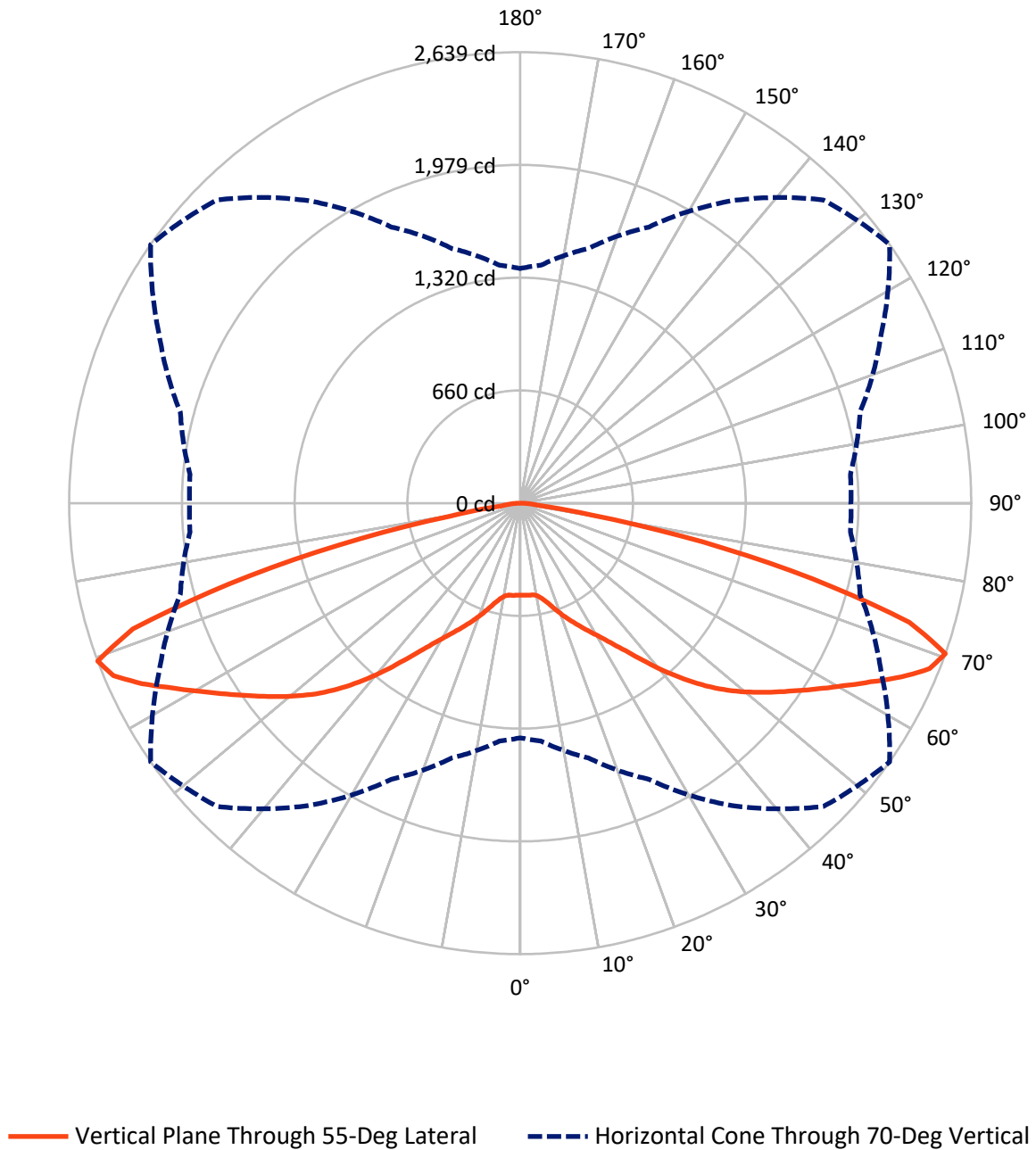


Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type V - Medium - N/A

REPORT NUMBER: P799759

CATALOG NUMBER: ARCH2-50-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P799759

CATALOG NUMBER: ARCH2-50-730-U-5WQ

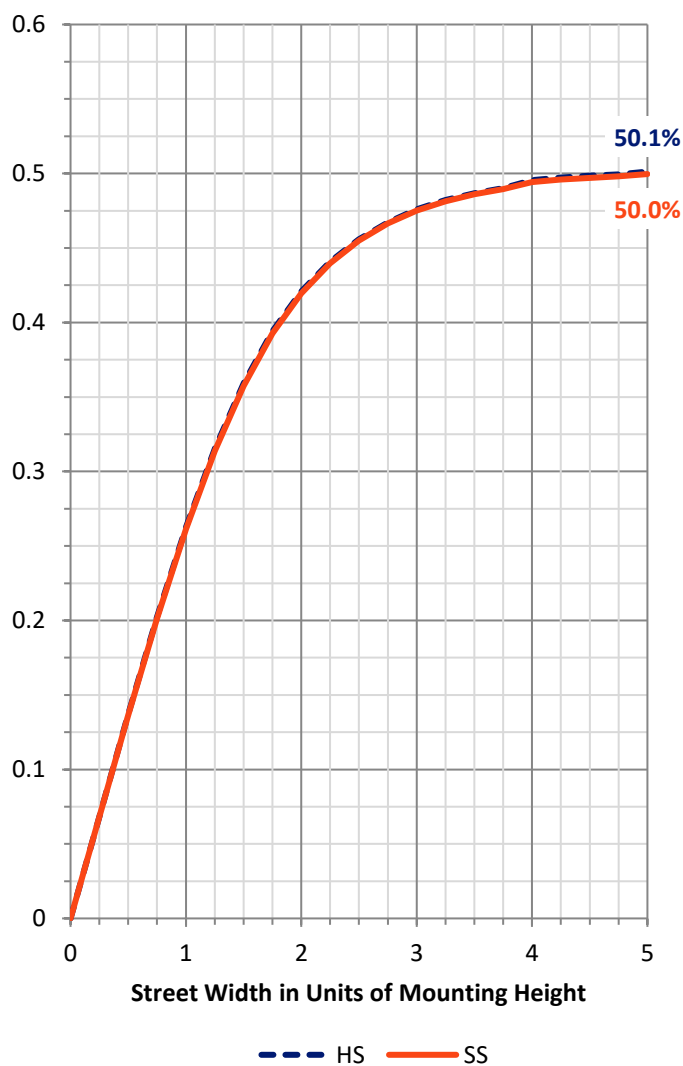
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3864.5	0.0	3864.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3864.5	0.0	3864.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7729.0	0.0	7729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	0.7
10°-20°	177.0	2.3
20°-30°	367.8	4.8
30°-40°	679.4	8.8
40°-50°	1193.5	15.4
50°-60°	1721.3	22.3
60°-70°	2106.7	27.3
70°-80°	1340.5	17.3
80°-90°	90.7	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°	7729.0	100.0
0°-180°	7729.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799759

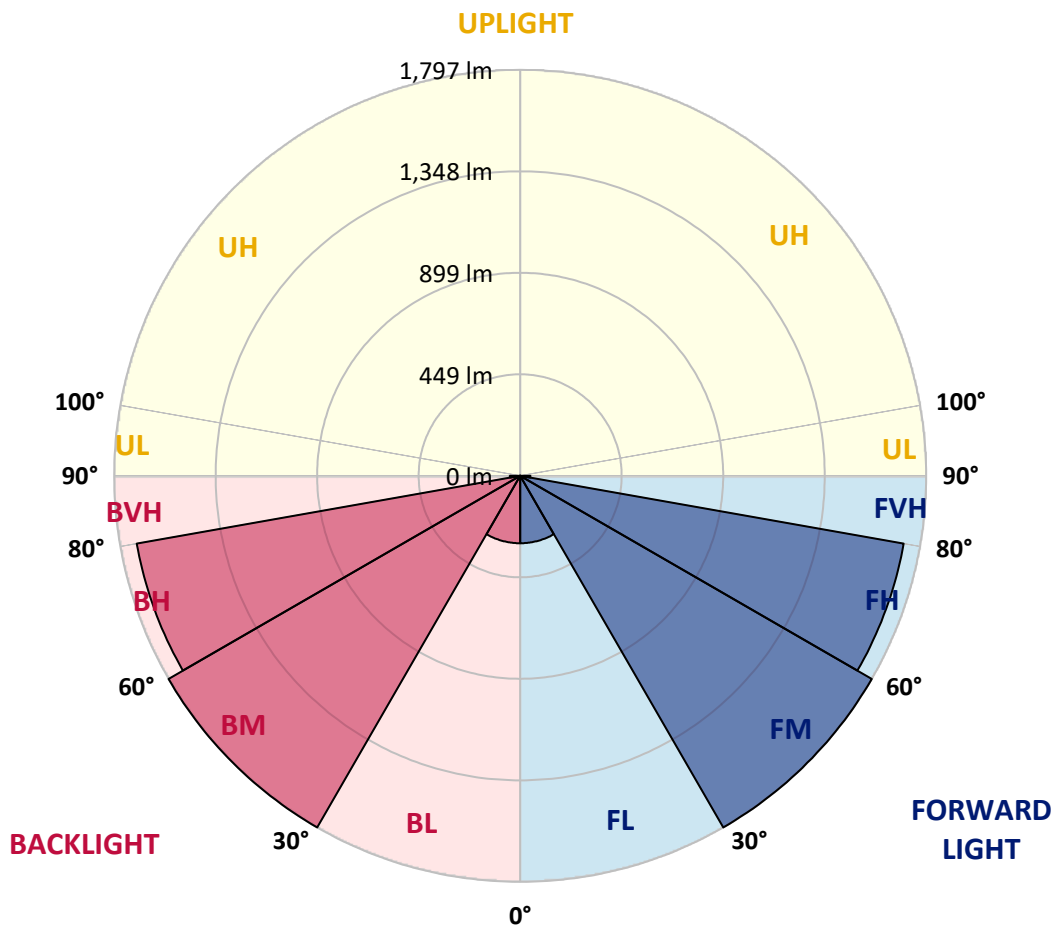
CATALOG NUMBER: ARCH2-50-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.4	3.9			
FM	(30°-60°)	1797.1	23.3			
FH	(60°-80°)	1723.6	22.3			G1/1800
FVH	(80°-90°)	45.4	0.6			G1/100
BL	(0°-30°)	298.4	3.9	B1/500		
BM	(30°-60°)	1797.1	23.3	B2/2500		
BH	(60°-80°)	1723.6	22.3	B3/2500		G1/1800
BVH	(80°-90°)	45.4	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: P799759

CATALOG NUMBER: ARCH2-50-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	546.0	546.0	544.5	544.5	541.7	540.2	538.8	538.8	537.3	537.3	535.9
5°	548.8	548.8	548.8	547.4	546.0	544.5	541.7	538.8	537.3	535.9	534.5
7.5°	550.3	550.3	548.8	548.8	547.4	546.0	541.7	537.3	535.9	534.5	534.5
10°	561.8	560.3	558.9	556.0	556.0	556.0	550.3	546.0	544.5	544.5	544.5
12.5°	589.1	587.6	584.8	580.5	580.5	581.9	573.3	567.5	567.5	566.1	566.1
15°	629.3	627.9	625.0	617.8	616.4	619.2	606.3	600.6	600.6	600.6	599.1
17.5°	673.8	671.0	666.7	660.9	660.9	660.9	648.0	640.8	636.5	636.5	635.0
20°	711.2	709.8	709.8	708.3	712.6	712.6	695.4	683.9	673.8	668.1	666.7
22.5°	744.2	742.8	745.7	751.4	760.0	762.9	742.8	725.6	709.8	698.3	695.4
25°	788.8	787.3	785.9	794.5	808.9	813.2	791.7	770.1	754.3	748.6	745.7
27.5°	836.2	837.6	839.1	847.7	859.2	866.4	844.8	824.7	811.8	803.1	800.3
30°	889.4	892.2	896.5	909.5	918.1	921.0	902.3	887.9	876.4	869.2	864.9
32.5°	956.9	962.6	968.4	979.9	984.2	981.3	972.7	962.6	954.0	943.9	942.5
35°	1057.5	1063.2	1061.8	1066.1	1067.5	1064.6	1060.3	1054.6	1050.3	1037.3	1035.9
37.5°	1183.9	1189.6	1181.0	1176.7	1166.6	1168.1	1166.6	1171.0	1172.4	1159.5	1158.0
40°	1311.8	1317.5	1306.0	1294.5	1284.5	1280.2	1287.3	1301.7	1301.7	1293.1	1293.1
42.5°	1448.3	1452.6	1433.9	1419.5	1406.6	1403.7	1408.0	1425.3	1429.6	1428.1	1428.1
45°	1584.7	1581.9	1557.4	1543.1	1531.6	1524.4	1525.8	1538.8	1547.4	1551.7	1551.7
47.5°	1689.6	1685.3	1665.2	1653.7	1646.5	1636.5	1636.5	1643.7	1648.0	1649.4	1649.4
50°	1773.0	1768.6	1748.5	1747.1	1747.1	1742.8	1738.5	1737.0	1734.2	1735.6	1735.6
52.5°	1844.8	1839.1	1824.7	1827.6	1840.5	1843.4	1837.6	1826.1	1814.6	1810.3	1811.8
55°	1922.4	1913.8	1902.3	1910.9	1936.7	1948.2	1939.6	1916.6	1896.5	1883.6	1883.6
57.5°	1984.2	1974.1	1974.1	1998.5	2045.9	2068.9	2050.3	2007.2	1972.7	1958.3	1959.7
60°	1941.1	1932.4	1966.9	2074.7	2163.8	2202.5	2170.9	2094.8	2038.8	2021.5	2024.4
62.5°	1856.3	1850.5	1893.6	2060.3	2270.1	2350.5	2303.1	2193.9	2110.6	2090.5	2090.5
65°	1731.3	1729.9	1790.2	1995.7	2294.5	2492.8	2452.5	2301.7	2193.9	2166.6	2172.4
67.5°	1602.0	1602.0	1656.6	1885.0	2265.8	2553.1	2584.7	2399.4	2234.2	2166.6	2168.1
70°	1373.5	1398.0	1543.1	1783.0	2160.9	2510.0	2639.3	2330.4	2058.9	1939.6	1935.3
72.5°	905.2	936.8	1225.6	1604.9	2057.4	2353.4	2382.1	2047.4	1709.7	1570.4	1563.2
75°	546.0	573.3	794.5	1252.9	1808.9	1895.1	1768.6	1604.9	1277.3	1168.1	1168.1
77.5°	160.9	179.6	366.4	794.5	1251.4	1245.7	1090.5	945.4	755.7	642.2	650.9
80°	94.8	97.7	119.3	362.1	518.7	546.0	421.0	262.9	262.9	195.4	189.7
82.5°	73.3	73.3	76.1	90.5	125.0	139.4	106.3	90.5	103.4	87.6	83.3
85°	51.7	51.7	51.7	53.2	54.6	56.0	58.9	60.3	66.1	54.6	51.7
87.5°	15.8	17.2	18.7	21.6	25.9	27.3	28.7	25.9	25.9	24.4	23.0
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)