

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: P799791

Luminaire Tested: **ARCH2-50-740-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799791
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: ARCH2-50-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8115 lumens
Efficiency: N/A
Efficacy: 150.3 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): 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

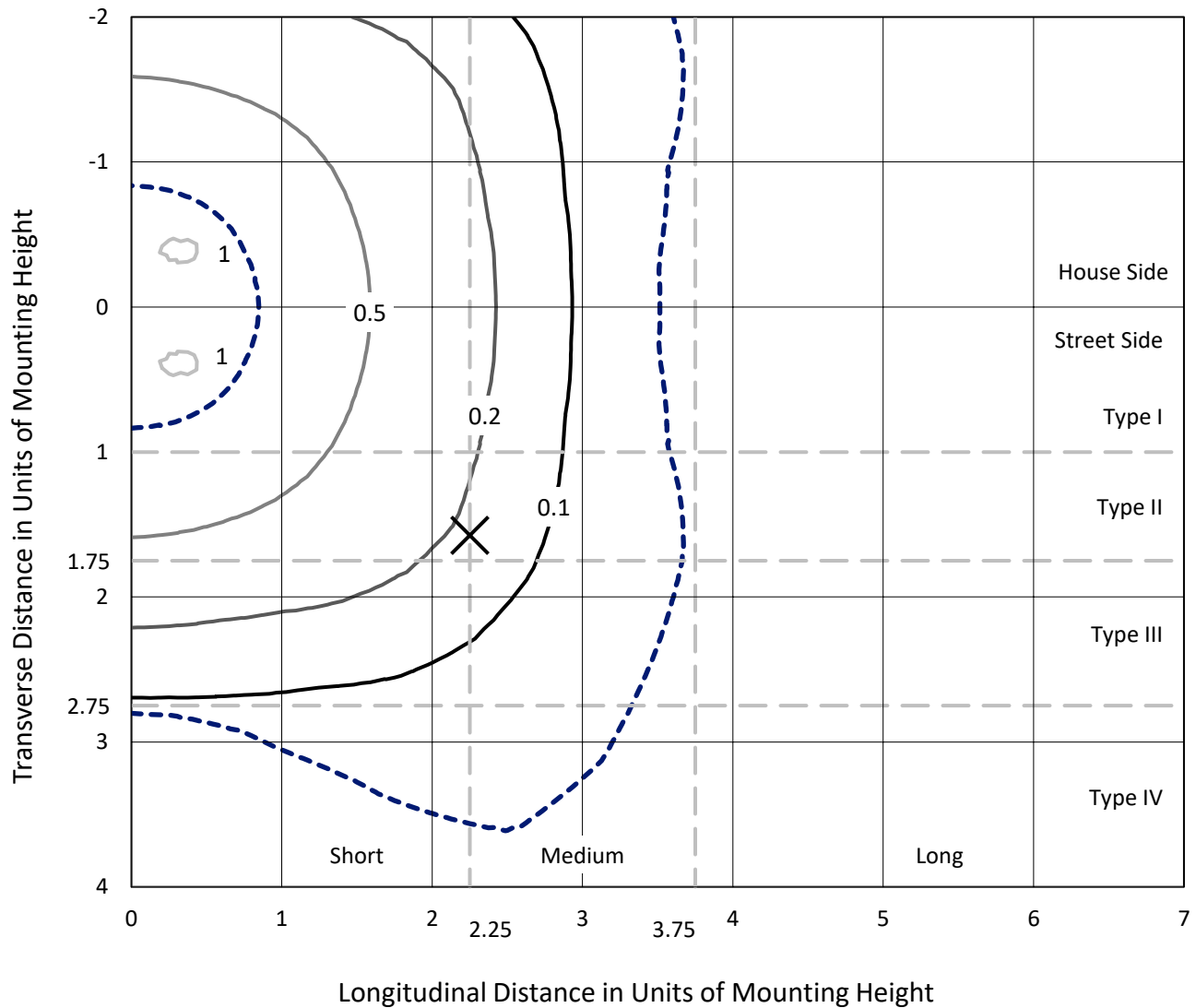


REPORT NUMBER: P799791

CATALOG NUMBER: ARCH2-50-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

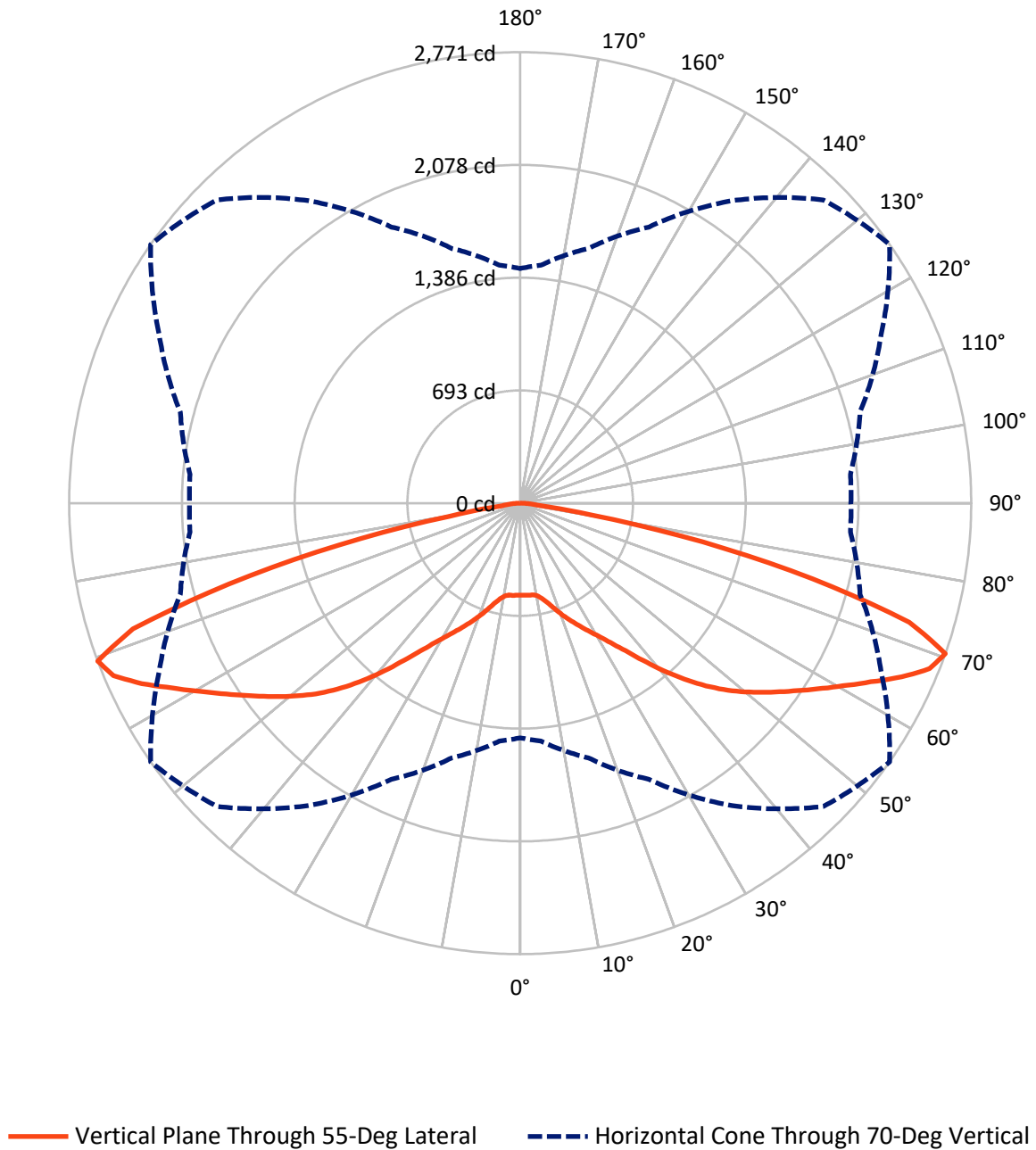


Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type V - Medium - N/A

REPORT NUMBER: P799791

CATALOG NUMBER: ARCH2-50-740-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P799791

CATALOG NUMBER: ARCH2-50-740-U-5WQ

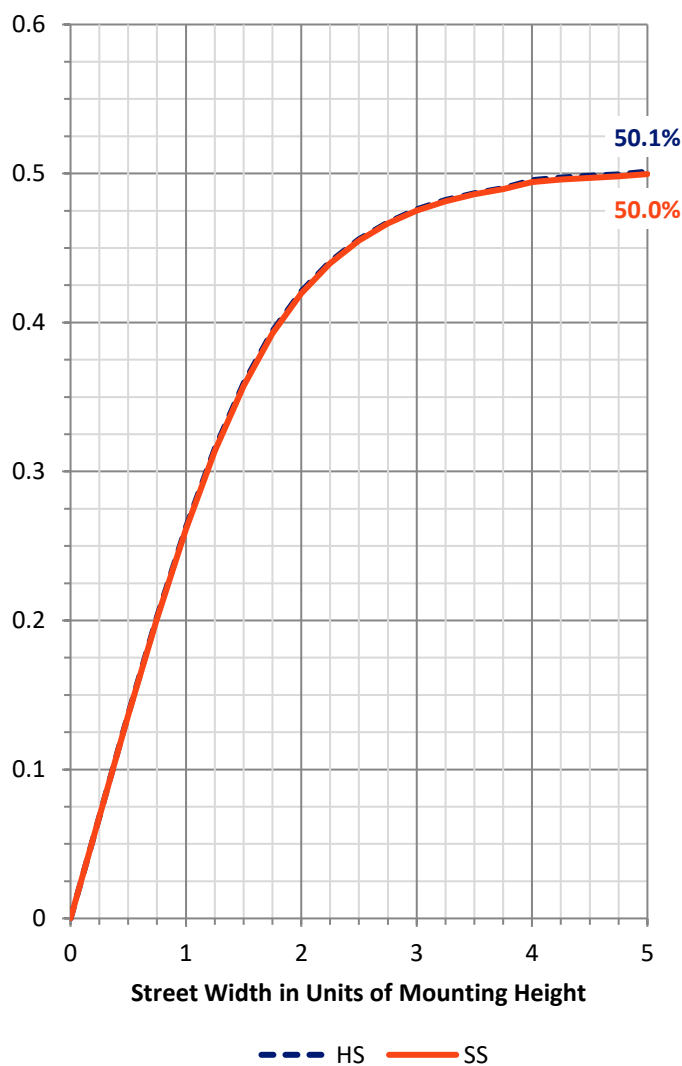
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4057.5	0.0	4057.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4057.5	0.0	4057.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8115.0	0.0	8115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.7
10°-20°	185.9	2.3
20°-30°	386.2	4.8
30°-40°	713.3	8.8
40°-50°	1253.1	15.4
50°-60°	1807.3	22.3
60°-70°	2211.9	27.3
70°-80°	1407.5	17.3
80°-90°	95.2	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°	8115.0	100.0
0°-180°	8115.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799791

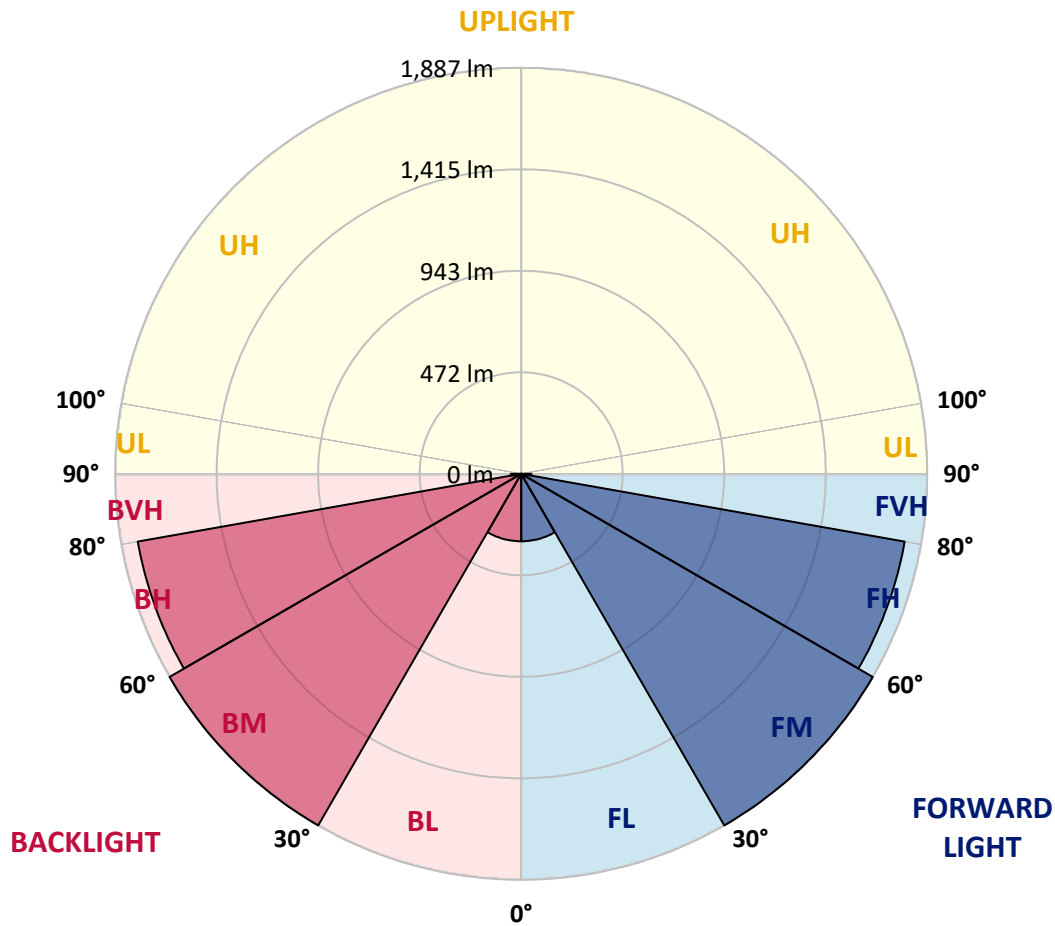
CATALOG NUMBER: ARCH2-50-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.3	3.9			
FM	(30°-60°)	1886.8	23.3			
FH	(60°-80°)	1809.7	22.3			G2/5000
FVH	(80°-90°)	47.6	0.6			G1/100
BL	(0°-30°)	313.3	3.9	B1/500		
BM	(30°-60°)	1886.8	23.3	B2/2500		
BH	(60°-80°)	1809.7	22.3	B3/2500		G2/5000
BVH	(80°-90°)	47.6	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



REPORT NUMBER: P799791

CATALOG NUMBER: ARCH2-50-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	565.7	565.7	565.7	565.7	565.7	565.7	565.7	565.7	565.7	565.7	565.7
2.5°	573.2	573.2	571.7	571.7	568.7	567.2	565.7	565.7	564.2	564.2	562.7
5°	576.3	576.3	576.3	574.7	573.2	571.7	568.7	565.7	564.2	562.7	561.2
7.5°	577.8	577.8	576.3	576.3	574.7	573.2	568.7	564.2	562.7	561.2	561.2
10°	589.8	588.3	586.8	583.8	583.8	583.8	577.8	573.2	571.7	571.7	571.7
12.5°	618.5	617.0	614.0	609.4	609.4	610.9	601.9	595.9	595.9	594.4	594.4
15°	660.7	659.2	656.2	648.7	647.2	650.2	636.6	630.6	630.6	630.6	629.0
17.5°	707.5	704.5	699.9	693.9	693.9	693.9	680.3	672.8	668.3	668.3	666.8
20°	746.7	745.2	745.2	743.7	748.2	748.2	730.1	718.1	707.5	701.5	699.9
22.5°	781.4	779.9	782.9	789.0	798.0	801.0	779.9	761.8	745.2	733.1	730.1
25°	828.2	826.7	825.2	834.2	849.3	853.8	831.2	808.6	792.0	785.9	782.9
27.5°	878.0	879.5	881.0	890.0	902.1	909.6	887.0	865.9	852.3	843.3	840.2
30°	933.8	936.8	941.3	954.9	963.9	967.0	947.3	932.3	920.2	912.6	908.1
32.5°	1004.7	1010.7	1016.7	1028.8	1033.3	1030.3	1021.3	1010.7	1001.7	991.1	989.6
35°	1110.3	1116.3	1114.8	1119.3	1120.8	1117.8	1113.3	1107.2	1102.7	1089.1	1087.6
37.5°	1243.0	1249.0	1240.0	1235.5	1224.9	1226.4	1224.9	1229.4	1230.9	1217.4	1215.9
40°	1377.3	1383.3	1371.2	1359.2	1348.6	1344.1	1351.6	1366.7	1366.7	1357.7	1357.7
42.5°	1520.6	1525.1	1505.5	1490.4	1476.8	1473.8	1478.3	1496.4	1501.0	1499.5	1499.5
45°	1663.9	1660.9	1635.2	1620.1	1608.1	1600.5	1602.0	1615.6	1624.7	1629.2	1629.2
47.5°	1774.0	1769.5	1748.4	1736.3	1728.8	1718.2	1718.2	1725.7	1730.3	1731.8	1731.8
50°	1861.5	1857.0	1835.9	1834.4	1834.4	1829.8	1825.3	1823.8	1820.8	1822.3	1822.3
52.5°	1936.9	1930.9	1915.8	1918.8	1932.4	1935.4	1929.4	1917.3	1905.3	1900.7	1902.2
55°	2018.4	2009.3	1997.3	2006.3	2033.5	2045.5	2036.5	2012.4	1991.2	1977.7	1977.7
57.5°	2083.3	2072.7	2072.7	2098.3	2148.1	2172.3	2152.6	2107.4	2071.2	2056.1	2057.6
60°	2038.0	2028.9	2065.2	2178.3	2271.8	2312.5	2279.4	2199.4	2140.6	2122.5	2125.5
62.5°	1949.0	1943.0	1988.2	2163.2	2383.4	2467.9	2418.1	2303.5	2216.0	2194.9	2194.9
65°	1817.8	1816.2	1879.6	2095.3	2409.1	2617.3	2575.0	2416.6	2303.5	2274.8	2280.9
67.5°	1682.0	1682.0	1739.3	1979.2	2378.9	2680.6	2713.8	2519.2	2345.7	2274.8	2276.3
70°	1442.1	1467.8	1620.1	1872.1	2268.8	2635.4	2771.1	2446.8	2161.7	2036.5	2032.0
72.5°	950.4	983.5	1286.8	1685.0	2160.2	2470.9	2501.1	2149.6	1795.1	1648.8	1641.3
75°	573.2	601.9	834.2	1315.4	1899.2	1989.7	1857.0	1685.0	1341.1	1226.4	1226.4
77.5°	169.0	188.6	384.7	834.2	1313.9	1307.9	1145.0	992.6	793.5	674.3	683.4
80°	99.6	102.6	125.2	380.1	544.6	573.2	442.0	276.1	276.1	205.2	199.1
82.5°	76.9	76.9	80.0	95.0	131.2	146.3	111.6	95.0	108.6	92.0	87.5
85°	54.3	54.3	54.3	55.8	57.3	58.8	61.8	63.4	69.4	57.3	54.3
87.5°	16.6	18.1	19.6	22.6	27.2	28.7	30.2	27.2	27.2	25.6	24.1
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)