

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: P836602

Luminaire Tested: **ARCH3-50-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8434 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 53.6
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

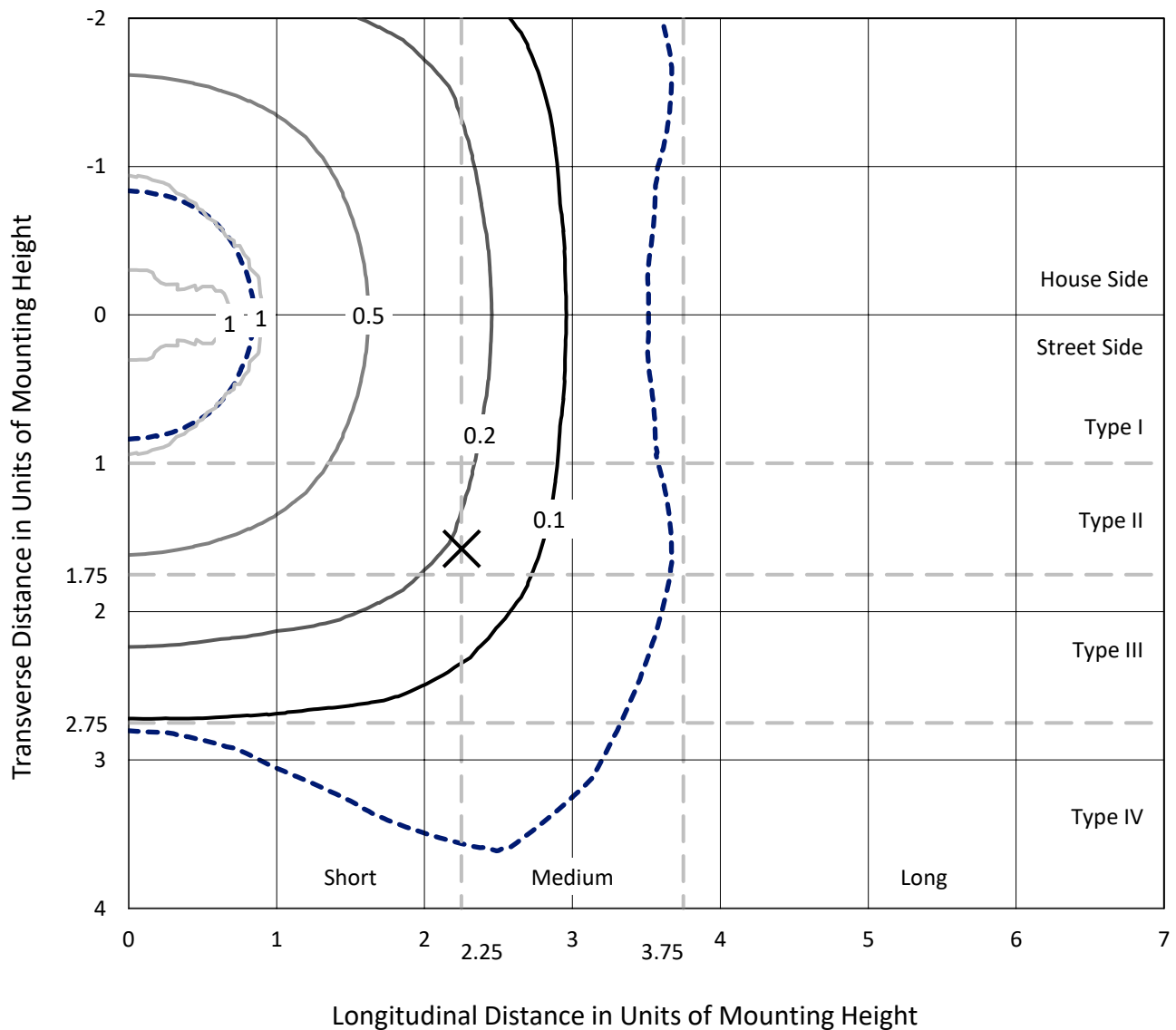


REPORT NUMBER: P836602

CATALOG NUMBER: ARCH3-50-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

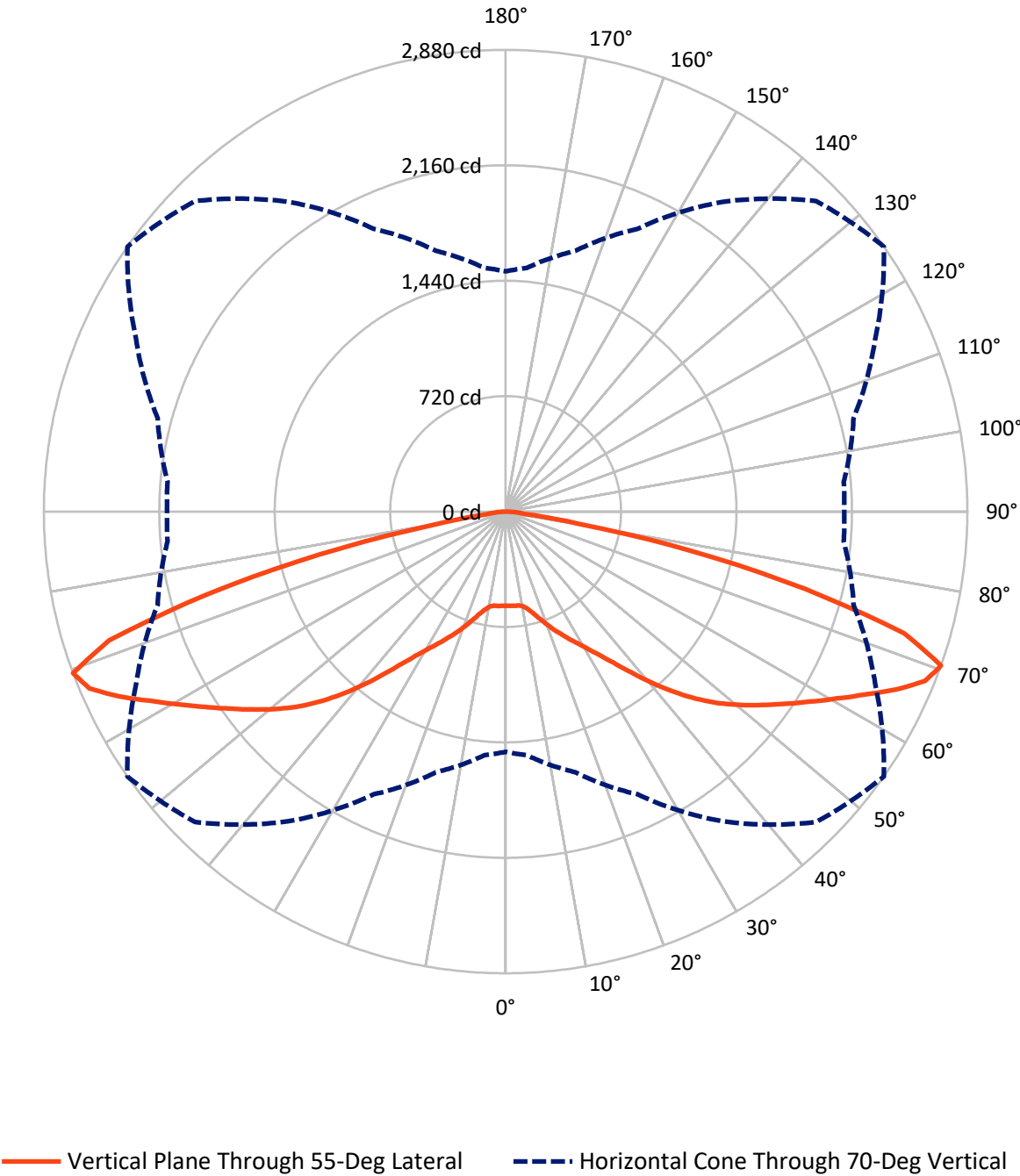
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P836602
CATALOG NUMBER: ARCH3-50-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836602

CATALOG NUMBER: ARCH3-50-727-U-5WQ

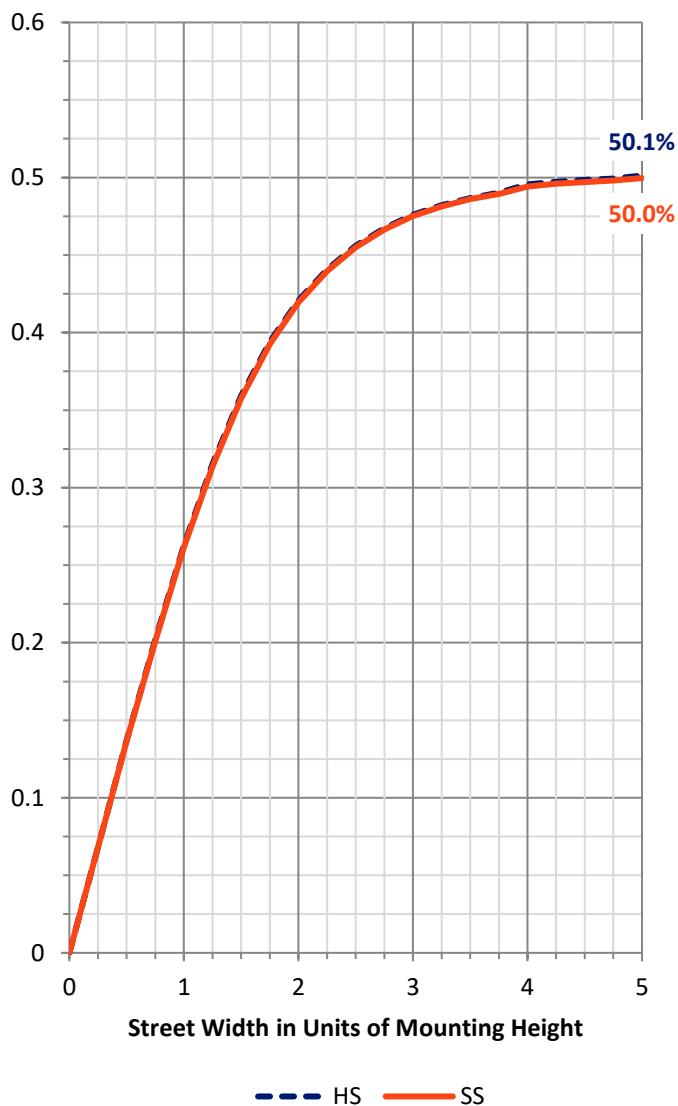
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4217.0	0.0	4217.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4217.0	0.0	4217.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8434.0	0.0	8434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	0.7
10°-20°	193.2	2.3
20°-30°	401.4	4.8
30°-40°	741.3	8.8
40°-50°	1302.4	15.4
50°-60°	1878.3	22.3
60°-70°	2298.9	27.3
70°-80°	1462.8	17.3
80°-90°	99.0	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°	8434.0	100.0
0°-180°	8434.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836602

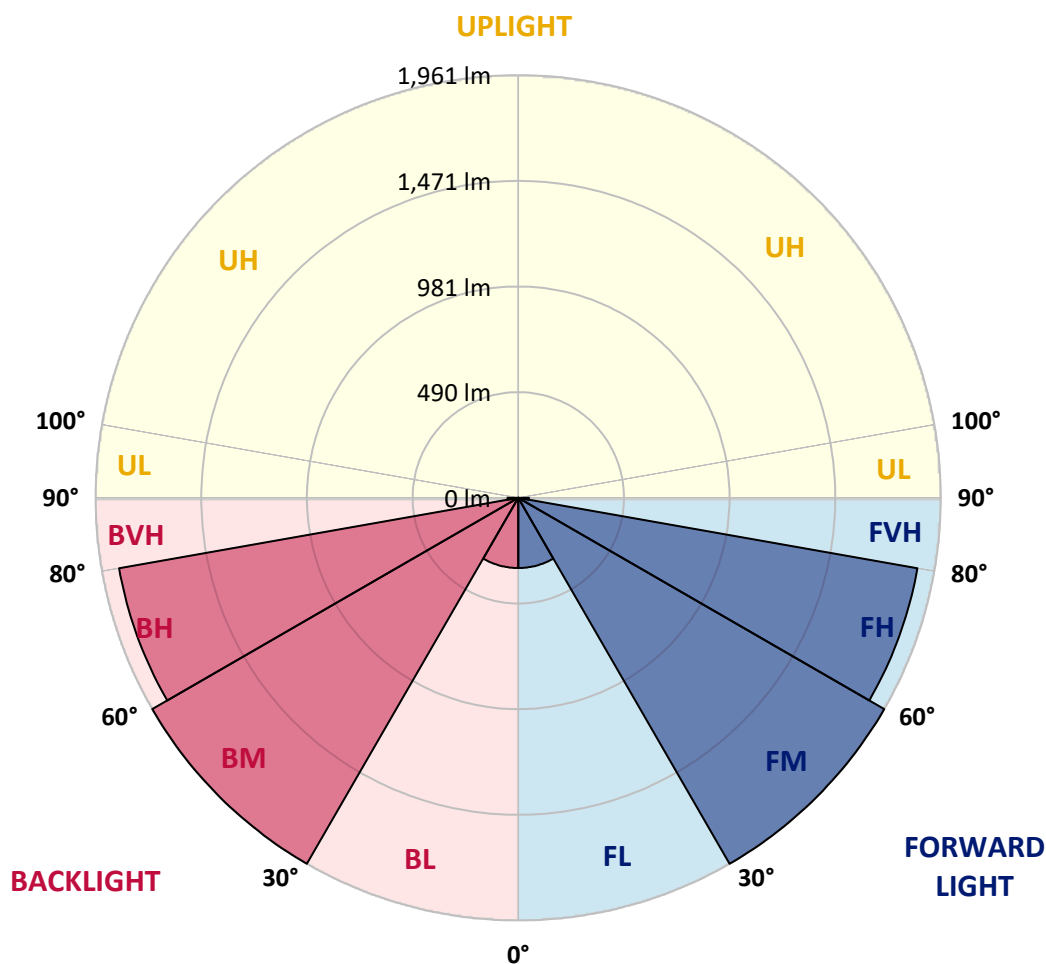
CATALOG NUMBER: ARCH3-50-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.7	3.9			
FM	(30°-60°)	1961.0	23.3			
FH	(60°-80°)	1880.8	22.3			G2/5000
FVH	(80°-90°)	49.5	0.6			G1/100
BL	(0°-30°)	325.7	3.9	B1/500		
BM	(30°-60°)	1961.0	23.3	B2/2500		
BH	(60°-80°)	1880.8	22.3	B3/2500		G2/5000
BVH	(80°-90°)	49.5	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: P836602

CATALOG NUMBER: ARCH3-50-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9
2.5°	595.8	595.8	594.2	594.2	591.1	589.5	587.9	587.9	586.4	586.4	584.8
5°	598.9	598.9	598.9	597.3	595.8	594.2	591.1	587.9	586.4	584.8	583.2
7.5°	600.5	600.5	598.9	598.9	597.3	595.8	591.1	586.4	584.8	583.2	583.2
10°	613.0	611.4	609.9	606.7	606.7	606.7	600.5	595.8	594.2	594.2	594.2
12.5°	642.8	641.2	638.1	633.4	633.4	635.0	625.6	619.3	619.3	617.7	617.7
15°	686.7	685.1	682.0	674.2	672.6	675.7	661.6	655.3	655.3	655.3	653.8
17.5°	735.3	732.2	727.5	721.2	721.2	721.2	707.1	699.2	694.5	694.5	693.0
20°	776.1	774.5	774.5	772.9	777.6	777.6	758.8	746.3	735.3	729.0	727.5
22.5°	812.1	810.6	813.7	820.0	829.4	832.5	810.6	791.7	774.5	762.0	758.8
25°	860.7	859.2	857.6	867.0	882.7	887.4	863.9	840.3	823.1	816.8	813.7
27.5°	912.5	914.0	915.6	925.0	937.6	945.4	921.9	899.9	885.8	876.4	873.3
30°	970.5	973.6	978.3	992.4	1001.8	1005.0	984.6	968.9	956.4	948.5	943.8
32.5°	1044.2	1050.4	1056.7	1069.2	1074.0	1070.8	1061.4	1050.4	1041.0	1030.1	1028.5
35°	1153.9	1160.2	1158.6	1163.3	1164.9	1161.7	1157.0	1150.8	1146.1	1132.0	1130.4
37.5°	1291.9	1298.1	1288.7	1284.0	1273.1	1274.6	1273.1	1277.8	1279.3	1265.2	1263.7
40°	1431.4	1437.7	1425.1	1412.6	1401.6	1396.9	1404.8	1420.4	1420.4	1411.0	1411.0
42.5°	1580.4	1585.1	1564.7	1549.0	1534.9	1531.8	1536.5	1555.3	1560.0	1558.4	1558.4
45°	1729.3	1726.2	1699.5	1683.8	1671.3	1663.4	1665.0	1679.1	1688.5	1693.2	1693.2
47.5°	1843.7	1839.0	1817.1	1804.6	1796.7	1785.7	1785.7	1793.6	1798.3	1799.8	1799.8
50°	1934.7	1930.0	1908.0	1906.5	1906.5	1901.8	1897.1	1895.5	1892.3	1893.9	1893.9
52.5°	2013.1	2006.8	1991.1	1994.3	2008.4	2011.5	2005.2	1992.7	1980.1	1975.4	1977.0
55°	2097.7	2088.3	2075.8	2085.2	2113.4	2126.0	2116.5	2091.5	2069.5	2055.4	2055.4
57.5°	2165.1	2154.2	2154.2	2180.8	2232.6	2257.6	2237.3	2190.2	2152.6	2136.9	2138.5
60°	2118.1	2108.7	2146.3	2263.9	2361.1	2403.5	2369.0	2285.9	2224.7	2205.9	2209.0
62.5°	2025.6	2019.3	2066.4	2248.2	2477.1	2564.9	2513.2	2394.0	2303.1	2281.2	2281.2
65°	1889.2	1887.6	1953.5	2177.7	2503.8	2720.2	2676.3	2511.6	2394.0	2364.3	2370.5
67.5°	1748.1	1748.1	1807.7	2057.0	2472.4	2786.0	2820.5	2618.2	2437.9	2364.3	2365.8
70°	1498.8	1525.5	1683.8	1945.7	2358.0	2739.0	2880.1	2543.0	2246.7	2116.5	2111.8
72.5°	987.7	1022.2	1337.3	1751.2	2245.1	2568.1	2599.4	2234.1	1865.7	1713.6	1705.8
75°	595.8	625.6	867.0	1367.1	1973.9	2067.9	1930.0	1751.2	1393.8	1274.6	1274.6
77.5°	175.6	196.0	399.8	867.0	1365.6	1359.3	1190.0	1031.6	824.7	700.8	710.2
80°	103.5	106.6	130.1	395.1	566.0	595.8	459.4	286.9	286.9	213.2	207.0
82.5°	80.0	80.0	83.1	98.8	136.4	152.1	116.0	98.8	112.9	95.6	90.9
85°	56.4	56.4	56.4	58.0	59.6	61.1	64.3	65.8	72.1	59.6	56.4
87.5°	17.2	18.8	20.4	23.5	28.2	29.8	31.4	28.2	28.2	26.7	25.1
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)