

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: P842674

Luminaire Tested: **ARCH4-80-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14181 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 83.4
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

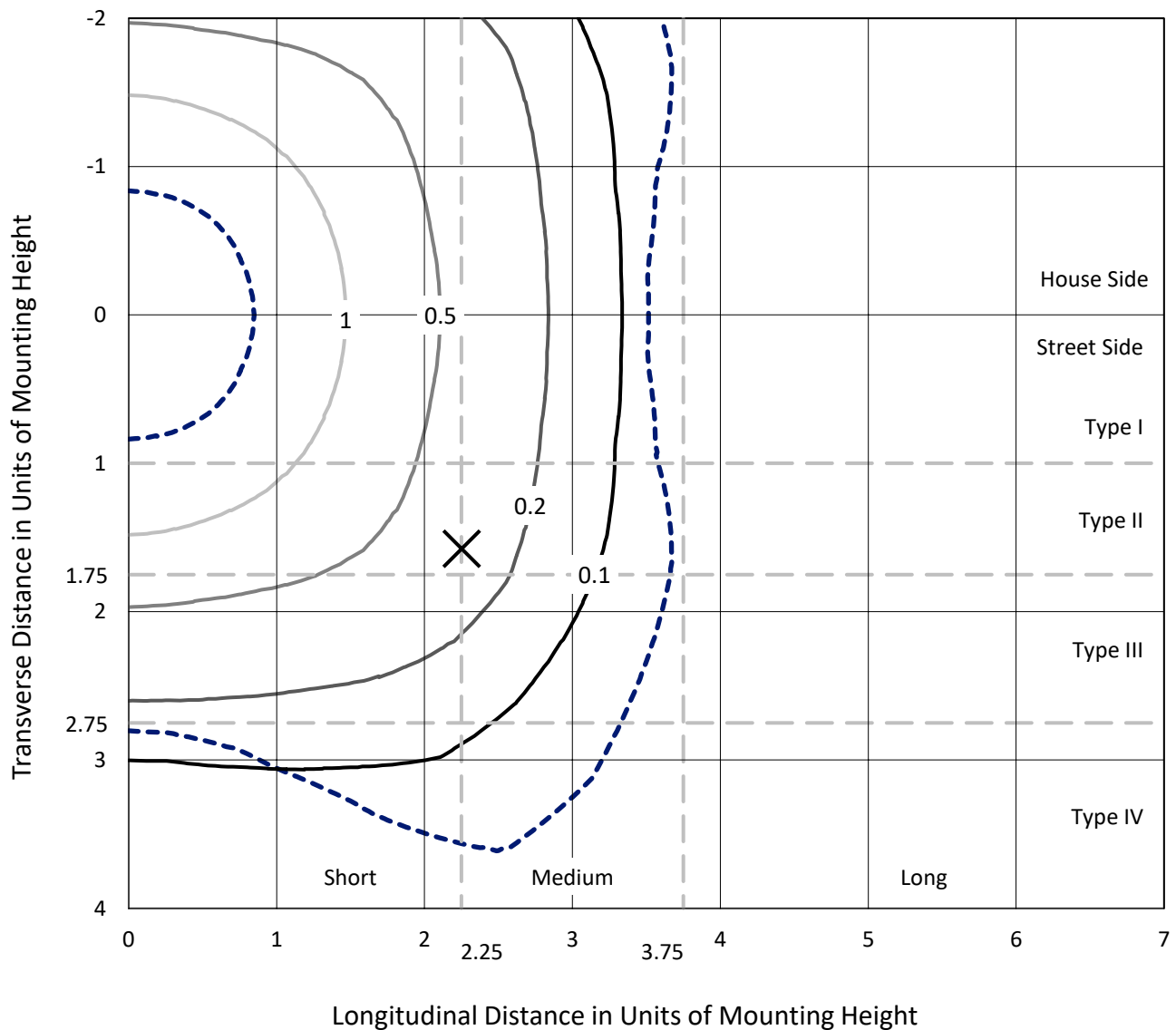


REPORT NUMBER: P842674

CATALOG NUMBER: ARCH4-80-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

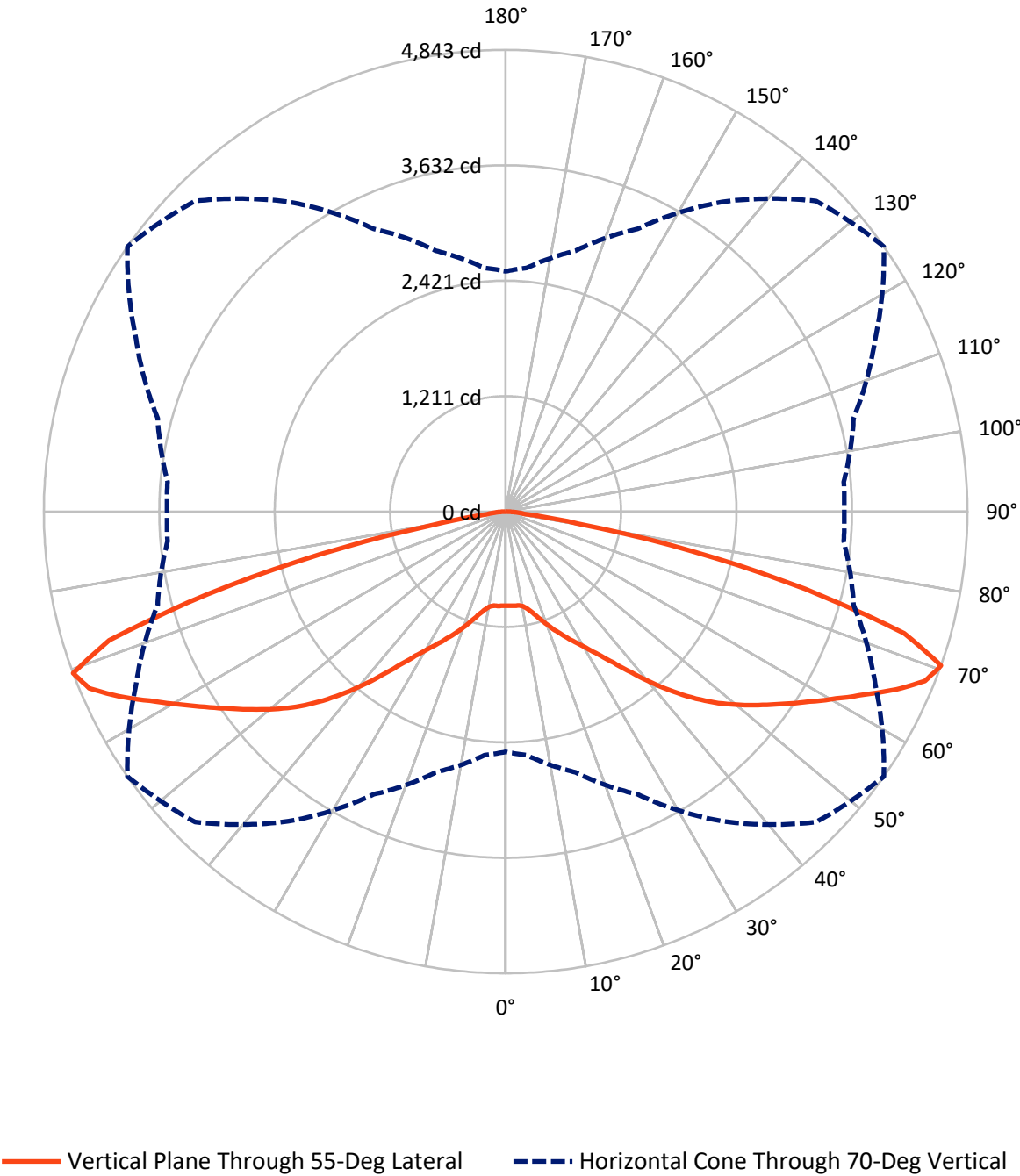
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Medium - N/A

REPORT NUMBER: P842674
CATALOG NUMBER: ARCH4-80-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842674

CATALOG NUMBER: ARCH4-80-730-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7090.5	0.0	7090.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7090.5	0.0	7090.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14181.0	0.0	14181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	0.7
10°-20°	324.8	2.3
20°-30°	674.9	4.8
30°-40°	1246.5	8.8
40°-50°	2189.8	15.4
50°-60°	3158.2	22.3
60°-70°	3865.3	27.3
70°-80°	2459.6	17.3
80°-90°	166.4	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°	14181.0	100.0
0°-180°	14181.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842674

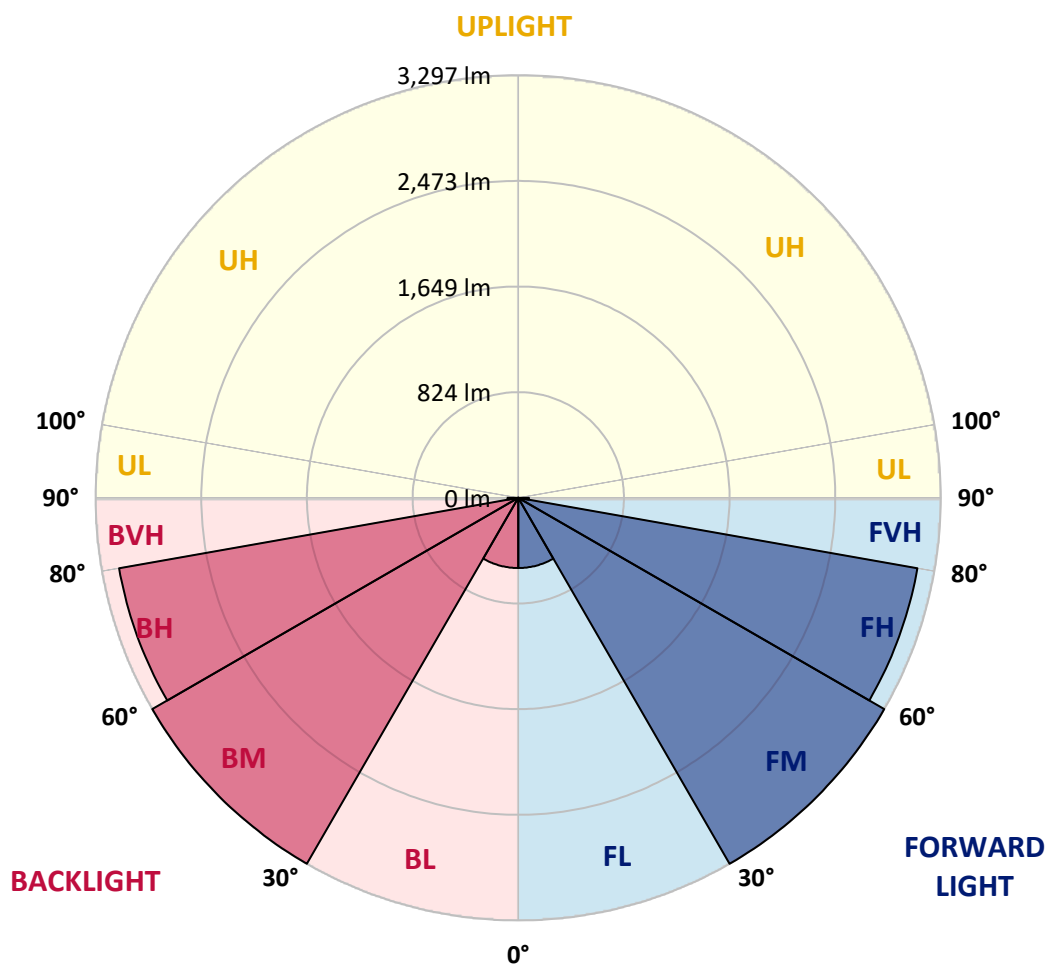
CATALOG NUMBER: ARCH4-80-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.6	3.9			
FM	(30°-60°)	3297.3	23.3			
FH	(60°-80°)	3162.5	22.3			G2/5000
FVH	(80°-90°)	83.2	0.6			G1/100
BL	(0°-30°)	547.6	3.9	B2/1000		
BM	(30°-60°)	3297.3	23.3	B3/5000		
BH	(60°-80°)	3162.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	83.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



REPORT NUMBER: P842674

CATALOG NUMBER: ARCH4-80-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	1001.7	1001.7	999.1	999.1	993.8	991.2	988.5	988.5	985.9	985.9	983.3
5°	1007.0	1007.0	1007.0	1004.4	1001.7	999.1	993.8	988.5	985.9	983.3	980.6
7.5°	1009.6	1009.6	1007.0	1007.0	1004.4	1001.7	993.8	985.9	983.3	980.6	980.6
10°	1030.7	1028.1	1025.5	1020.2	1020.2	1020.2	1009.6	1001.7	999.1	999.1	999.1
12.5°	1080.8	1078.2	1072.9	1065.0	1065.0	1067.6	1051.8	1041.3	1041.3	1038.6	1038.6
15°	1154.6	1152.0	1146.7	1133.5	1130.9	1136.2	1112.4	1101.9	1101.9	1101.9	1099.3
17.5°	1236.3	1231.1	1223.2	1212.6	1212.6	1212.6	1188.9	1175.7	1167.8	1167.8	1165.2
20°	1304.9	1302.2	1302.2	1299.6	1307.5	1307.5	1275.9	1254.8	1236.3	1225.8	1223.2
22.5°	1365.5	1362.9	1368.2	1378.7	1394.5	1399.8	1362.9	1331.2	1302.2	1281.2	1275.9
25°	1447.2	1444.6	1442.0	1457.8	1484.1	1492.1	1452.5	1413.0	1384.0	1373.4	1368.2
27.5°	1534.2	1536.9	1539.5	1555.3	1576.4	1589.6	1550.0	1513.1	1489.4	1473.6	1468.3
30°	1631.8	1637.0	1644.9	1668.7	1684.5	1689.8	1655.5	1629.1	1608.0	1594.9	1587.0
32.5°	1755.7	1766.2	1776.8	1797.8	1805.8	1800.5	1784.7	1766.2	1750.4	1731.9	1729.3
35°	1940.2	1950.7	1948.1	1956.0	1958.6	1953.4	1945.5	1934.9	1927.0	1903.3	1900.7
37.5°	2172.2	2182.7	2166.9	2159.0	2140.5	2143.2	2140.5	2148.4	2151.1	2127.4	2124.7
40°	2406.8	2417.3	2396.2	2375.2	2356.7	2348.8	2362.0	2388.3	2388.3	2372.5	2372.5
42.5°	2657.2	2665.1	2630.9	2604.5	2580.8	2575.5	2583.4	2615.0	2623.0	2620.3	2620.3
45°	2907.7	2902.4	2857.6	2831.2	2810.1	2796.9	2799.6	2823.3	2839.1	2847.0	2847.0
47.5°	3100.1	3092.2	3055.3	3034.2	3021.0	3002.6	3002.6	3015.7	3023.6	3026.3	3026.3
50°	3253.0	3245.1	3208.2	3205.5	3205.5	3197.6	3189.7	3187.1	3181.8	3184.4	3184.4
52.5°	3384.8	3374.2	3347.9	3353.2	3376.9	3382.2	3371.6	3350.5	3329.4	3321.5	3324.2
55°	3527.1	3511.3	3490.2	3506.1	3553.5	3574.6	3558.8	3516.6	3479.7	3456.0	3456.0
57.5°	3640.5	3622.0	3622.0	3666.9	3753.9	3796.0	3761.8	3682.7	3619.4	3593.0	3595.7
60°	3561.4	3545.6	3608.9	3806.6	3970.0	4041.2	3983.2	3843.5	3740.7	3709.0	3714.3
62.5°	3405.9	3395.3	3474.4	3780.2	4165.1	4312.7	4225.7	4025.4	3872.5	3835.6	3835.6
65°	3176.5	3173.9	3284.6	3661.6	4209.9	4573.7	4499.9	4223.1	4025.4	3975.3	3985.8
67.5°	2939.3	2939.3	3039.5	3458.6	4157.2	4684.4	4742.4	4402.3	4099.2	3975.3	3977.9
70°	2520.1	2565.0	2831.2	3271.4	3964.7	4605.3	4842.6	4275.8	3777.6	3558.8	3550.9
72.5°	1660.8	1718.8	2248.6	2944.6	3774.9	4318.0	4370.7	3756.5	3137.0	2881.3	2868.1
75°	1001.7	1051.8	1457.8	2298.7	3318.9	3477.1	3245.1	2944.6	2343.5	2143.2	2143.2
77.5°	295.2	329.5	672.2	1457.8	2296.1	2285.5	2000.8	1734.6	1386.6	1178.4	1194.2
80°	174.0	179.3	218.8	664.3	951.6	1001.7	772.4	482.4	482.4	358.5	348.0
82.5°	134.4	134.4	139.7	166.1	229.3	255.7	195.1	166.1	189.8	160.8	152.9
85°	94.9	94.9	94.9	97.5	100.2	102.8	108.1	110.7	121.3	100.2	94.9
87.5°	29.0	31.6	34.3	39.5	47.5	50.1	52.7	47.5	47.5	44.8	42.2
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)