

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: P841144

Luminaire Tested: **ARCH4-140-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841144
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: ARCH4-140-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20072 lumens
Efficiency: N/A
Efficacy: 142.1 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): 141.3
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

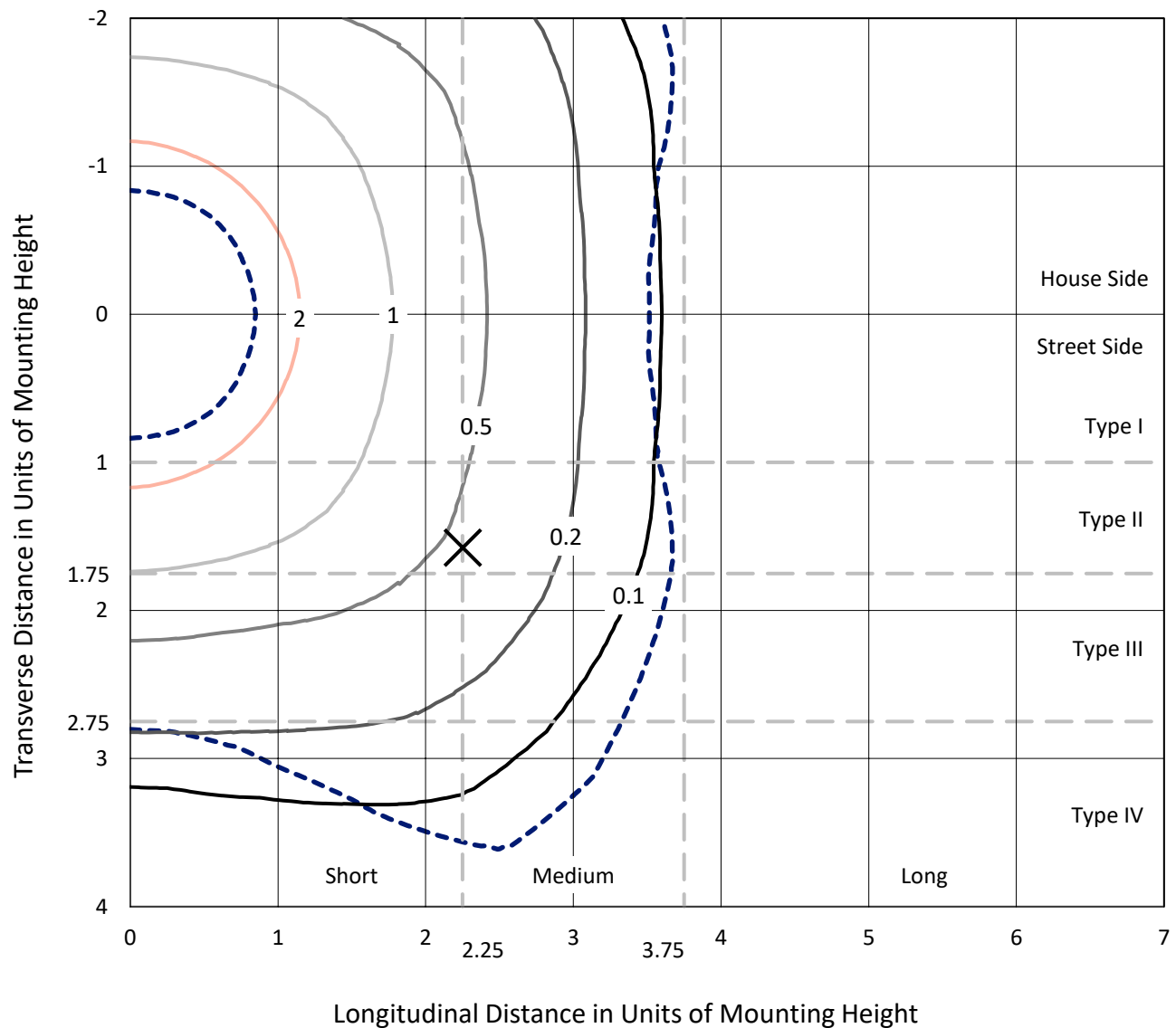


REPORT NUMBER: P841144

CATALOG NUMBER: ARCH4-140-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

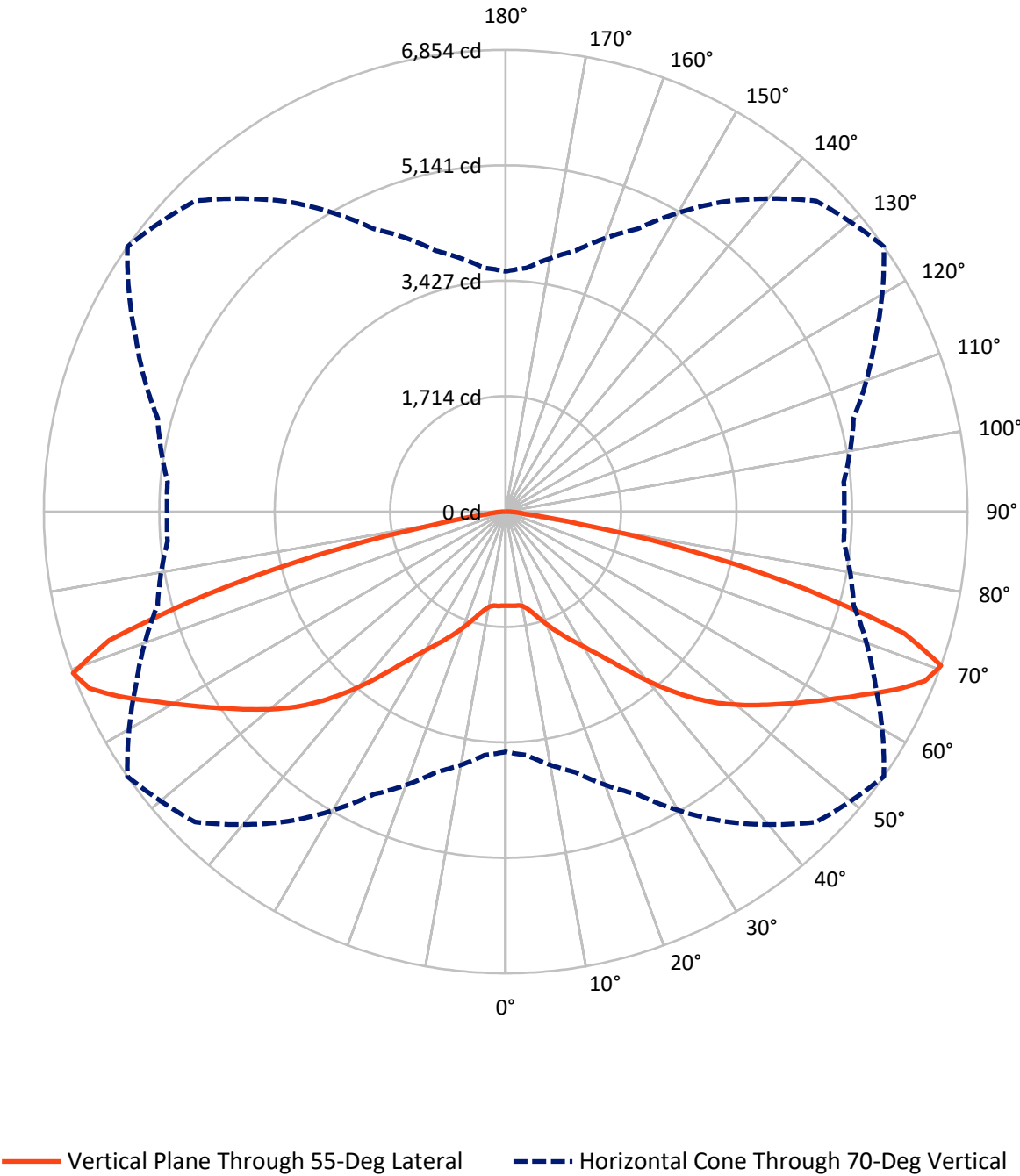
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Medium - N/A

REPORT NUMBER: P841144
CATALOG NUMBER: ARCH4-140-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841144

CATALOG NUMBER: ARCH4-140-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10036.0	0.0	10036.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10036.0	0.0	10036.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20072.0	0.0	20072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	0.7
10°-20°	459.7	2.3
20°-30°	955.3	4.8
30°-40°	1764.3	8.8
40°-50°	3099.5	15.4
50°-60°	4470.2	22.3
60°-70°	5471.0	27.3
70°-80°	3481.3	17.3
80°-90°	235.6	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°	20072.0	100.0
0°-180°	20072.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841144

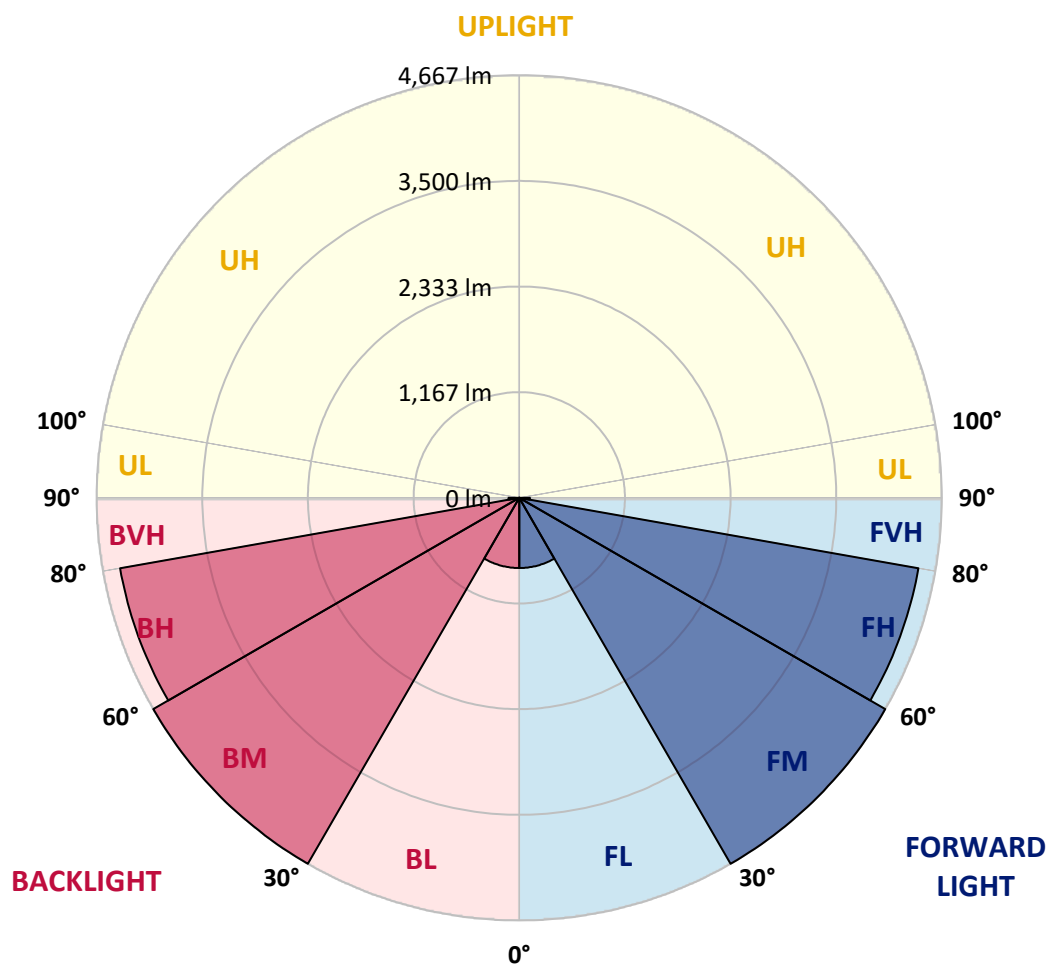
CATALOG NUMBER: ARCH4-140-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.0	3.9			
FM	(30°-60°)	4667.0	23.3			
FH	(60°-80°)	4476.2	22.3			G2/5000
FVH	(80°-90°)	117.8	0.6			G2/225
BL	(0°-30°)	775.0	3.9	B2/1000		
BM	(30°-60°)	4667.0	23.3	B3/5000		
BH	(60°-80°)	4476.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	117.8	0.6			G2/225
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: P841144

CATALOG NUMBER: ARCH4-140-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1417.9	1417.9	1414.1	1414.1	1406.7	1402.9	1399.2	1399.2	1395.5	1395.5	1391.7
5°	1425.3	1425.3	1425.3	1421.6	1417.9	1414.1	1406.7	1399.2	1395.5	1391.7	1388.0
7.5°	1429.1	1429.1	1425.3	1425.3	1421.6	1417.9	1406.7	1395.5	1391.7	1388.0	1388.0
10°	1458.9	1455.2	1451.4	1444.0	1444.0	1444.0	1429.1	1417.9	1414.1	1414.1	1414.1
12.5°	1529.8	1526.1	1518.6	1507.4	1507.4	1511.1	1488.8	1473.8	1473.8	1470.1	1470.1
15°	1634.3	1630.5	1623.1	1604.4	1600.7	1608.2	1574.6	1559.7	1559.7	1559.7	1555.9
17.5°	1749.9	1742.5	1731.3	1716.4	1716.4	1716.4	1682.8	1664.1	1652.9	1652.9	1649.2
20°	1847.0	1843.2	1843.2	1839.5	1850.7	1850.7	1805.9	1776.1	1749.9	1735.0	1731.3
22.5°	1932.8	1929.0	1936.5	1951.4	1973.8	1981.3	1929.0	1884.3	1843.2	1813.4	1805.9
25°	2048.4	2044.7	2041.0	2063.4	2100.7	2111.9	2055.9	1999.9	1958.9	1944.0	1936.5
27.5°	2171.6	2175.3	2179.0	2201.4	2231.3	2249.9	2194.0	2141.7	2108.1	2085.8	2078.3
30°	2309.6	2317.1	2328.3	2361.9	2384.3	2391.7	2343.2	2305.9	2276.0	2257.4	2246.2
32.5°	2485.0	2499.9	2514.8	2544.7	2555.9	2548.4	2526.0	2499.9	2477.5	2451.4	2447.7
35°	2746.2	2761.1	2757.4	2768.6	2772.3	2764.8	2753.6	2738.7	2727.5	2693.9	2690.2
37.5°	3074.5	3089.5	3067.1	3055.9	3029.8	3033.5	3029.8	3040.9	3044.7	3011.1	3007.4
40°	3406.6	3421.5	3391.7	3361.8	3335.7	3324.5	3343.2	3380.5	3380.5	3358.1	3358.1
42.5°	3761.1	3772.3	3723.8	3686.4	3652.9	3645.4	3656.6	3701.4	3712.6	3708.8	3708.8
45°	4115.5	4108.1	4044.6	4007.3	3977.5	3958.8	3962.6	3996.1	4018.5	4029.7	4029.7
47.5°	4387.9	4376.7	4324.5	4294.6	4276.0	4249.9	4249.9	4268.5	4279.7	4283.4	4283.4
50°	4604.3	4593.1	4540.9	4537.2	4537.2	4526.0	4514.8	4511.0	4503.6	4507.3	4507.3
52.5°	4790.9	4776.0	4738.7	4746.1	4779.7	4787.2	4772.2	4742.4	4712.5	4701.3	4705.1
55°	4992.4	4970.0	4940.1	4962.5	5029.7	5059.5	5037.1	4977.4	4925.2	4891.6	4891.6
57.5°	5152.8	5126.7	5126.7	5190.1	5313.3	5373.0	5324.5	5212.5	5123.0	5085.7	5089.4
60°	5040.9	5018.5	5108.0	5387.9	5619.2	5720.0	5637.9	5440.1	5294.6	5249.8	5257.3
62.5°	4820.7	4805.8	4917.7	5350.6	5895.3	6104.3	5981.1	5697.6	5481.2	5428.9	5428.9
65°	4496.1	4492.4	4649.1	5182.7	5958.8	6473.7	6369.2	5977.4	5697.6	5626.7	5641.6
67.5°	4160.3	4160.3	4302.1	4895.4	5884.1	6630.4	6712.5	6231.1	5802.0	5626.7	5630.4
70°	3567.0	3630.5	4007.3	4630.4	5611.8	6518.4	6854.3	6052.0	5346.8	5037.1	5026.0
72.5°	2350.7	2432.8	3182.7	4167.8	5343.1	6111.7	6186.4	5317.0	4440.2	4078.2	4059.6
75°	1417.9	1488.8	2063.4	3253.6	4697.6	4921.5	4593.1	4167.8	3317.1	3033.5	3033.5
77.5°	417.9	466.4	951.5	2063.4	3249.9	3235.0	2832.0	2455.1	1962.6	1667.9	1690.2
80°	246.3	253.7	309.7	940.3	1347.0	1417.9	1093.2	682.8	682.8	507.4	492.5
82.5°	190.3	190.3	197.8	235.1	324.6	361.9	276.1	235.1	268.6	227.6	216.4
85°	134.3	134.3	134.3	138.1	141.8	145.5	153.0	156.7	171.6	141.8	134.3
87.5°	41.0	44.8	48.5	56.0	67.2	70.9	74.6	67.2	67.2	63.4	59.7
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)