

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: P841378

Luminaire Tested: **ARCH4-170-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841378
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: ARCH4-170-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26788 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 169.8
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

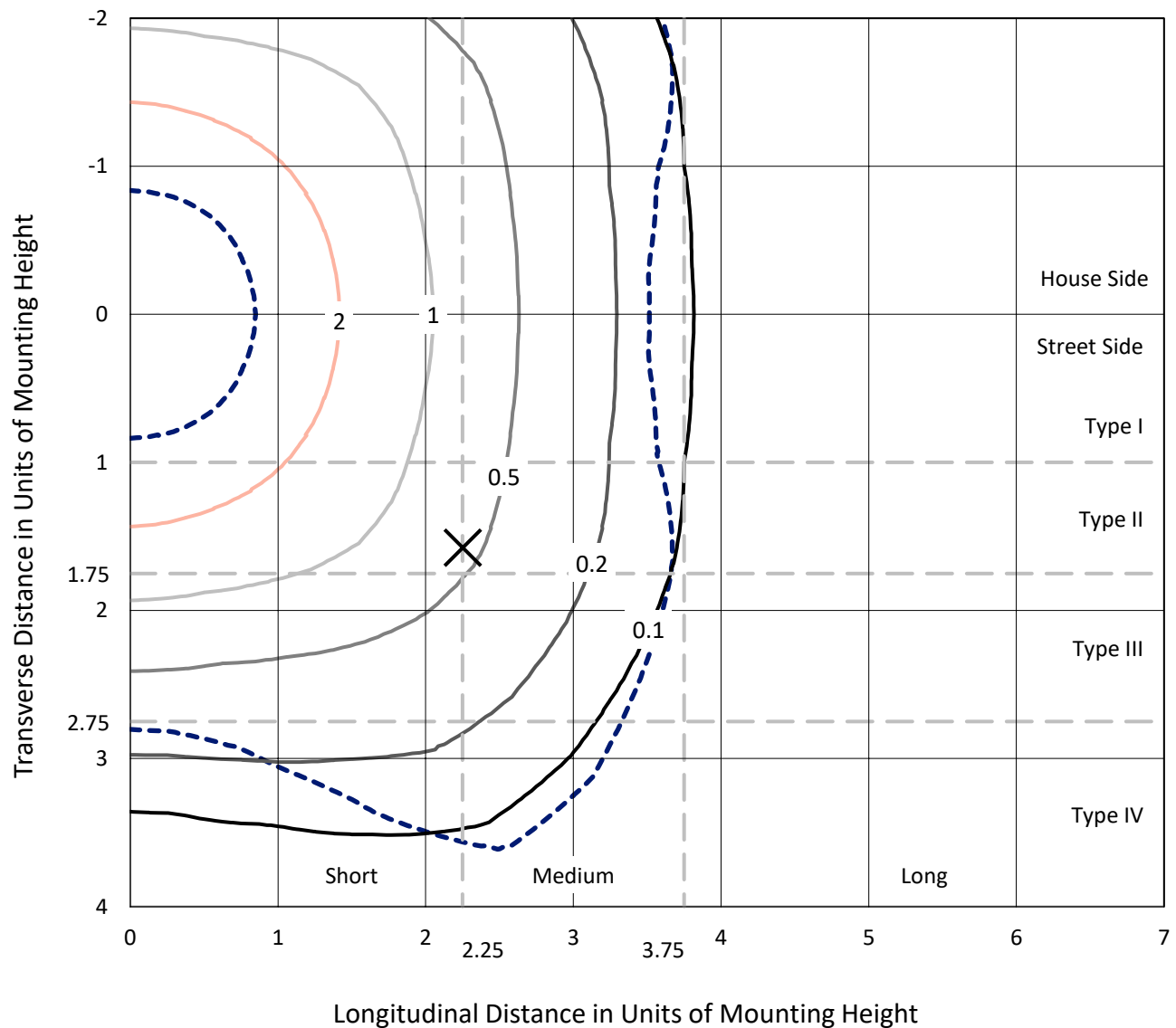


REPORT NUMBER: P841378

CATALOG NUMBER: ARCH4-170-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

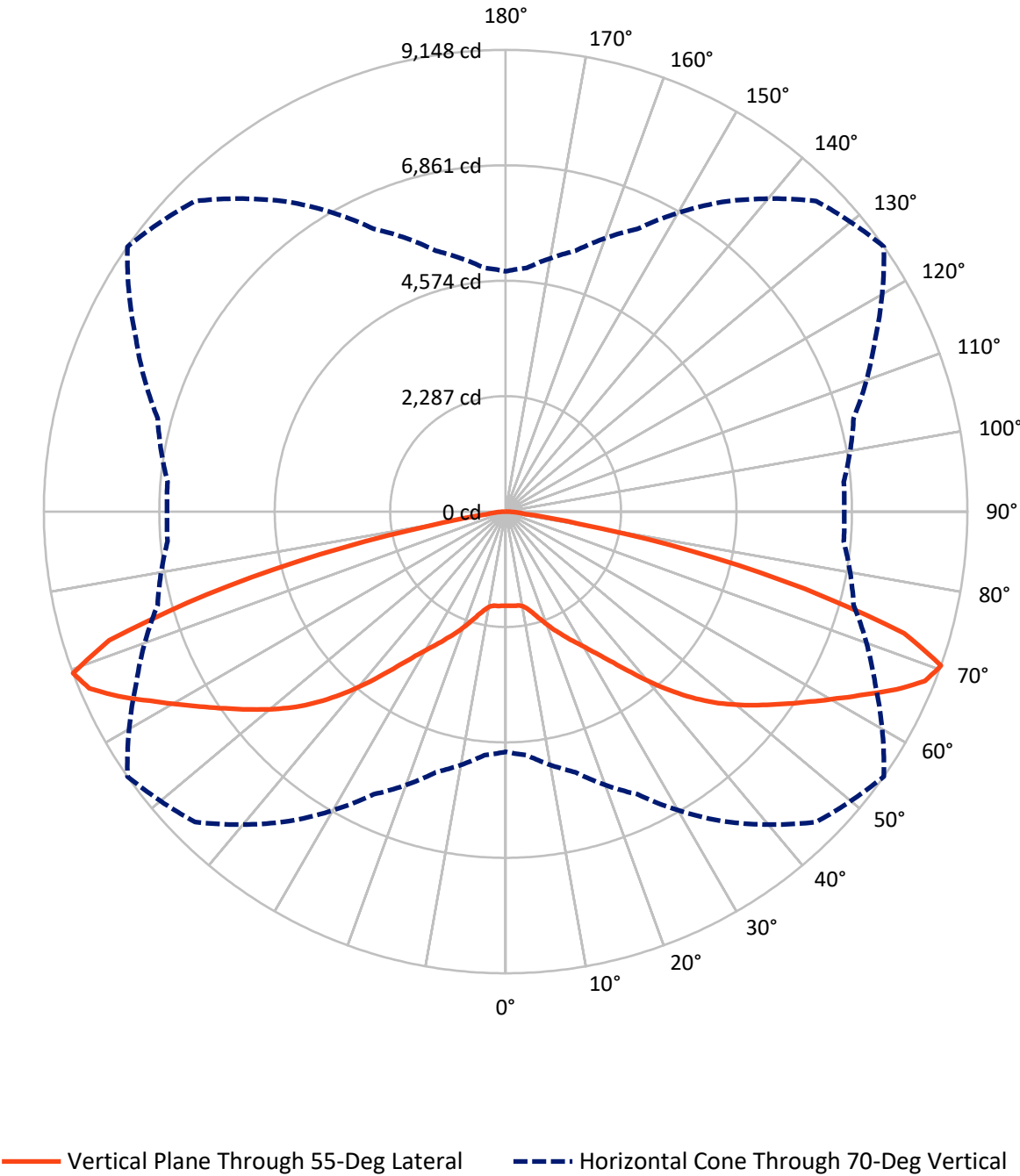
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Medium - N/A

REPORT NUMBER: P841378
CATALOG NUMBER: ARCH4-170-730-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13394.0	0.0	13394.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13394.0	0.0	13394.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26788.0	0.0	26788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	0.7
10°-20°	613.6	2.3
20°-30°	1274.9	4.8
30°-40°	2354.6	8.8
40°-50°	4136.6	15.4
50°-60°	5965.9	22.3
60°-70°	7301.6	27.3
70°-80°	4646.2	17.3
80°-90°	314.4	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°	26788.0	100.0
0°-180°	26788.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841378

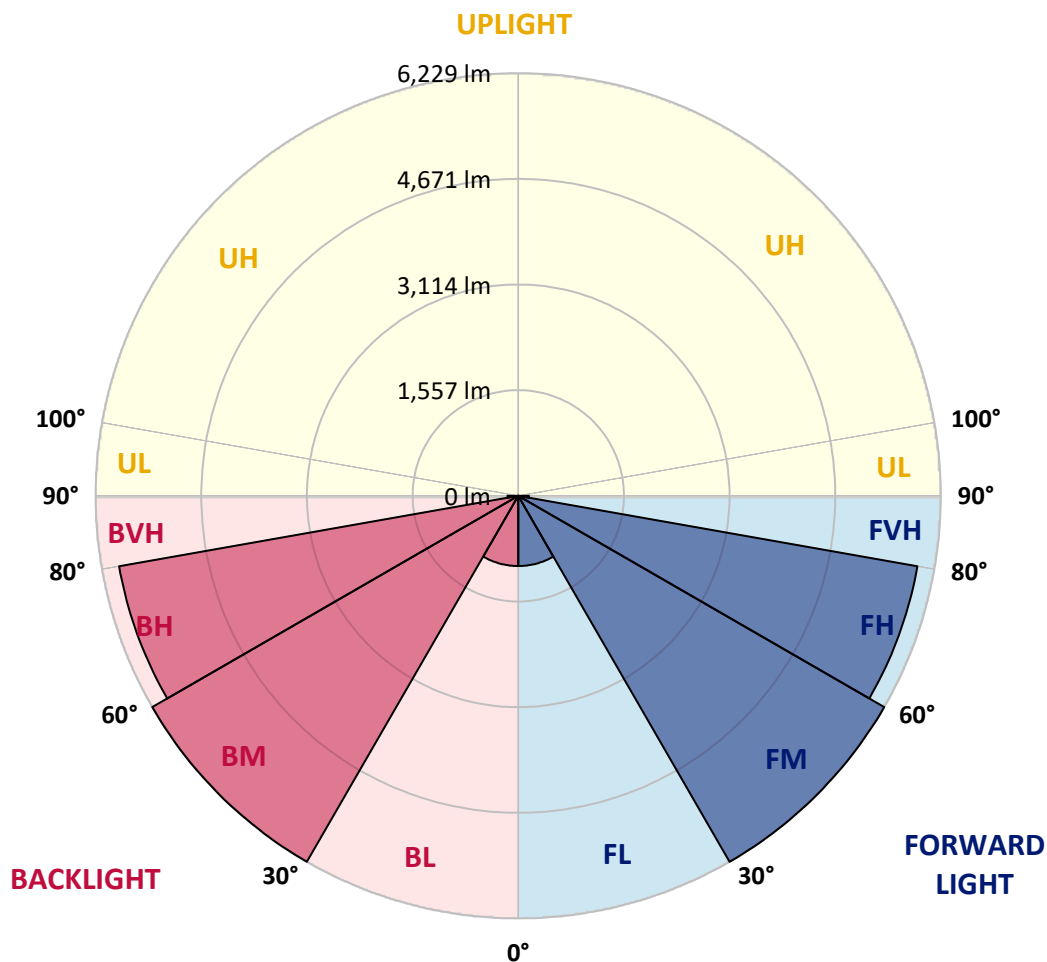
CATALOG NUMBER: ARCH4-170-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.4	3.9			
FM	(30°-60°)	6228.6	23.3			
FH	(60°-80°)	5973.9	22.3			G3/7500
FVH	(80°-90°)	157.2	0.6			G2/225
BL	(0°-30°)	1034.4	3.9	B3/2500		
BM	(30°-60°)	6228.6	23.3	B4/8500		
BH	(60°-80°)	5973.9	22.3	B5		G3/7500
BVH	(80°-90°)	157.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium



REPORT NUMBER: P841378

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1892.3	1892.3	1887.3	1887.3	1877.3	1872.4	1867.4	1867.4	1862.4	1862.4	1857.4
5°	1902.2	1902.2	1902.2	1897.3	1892.3	1887.3	1877.3	1867.4	1862.4	1857.4	1852.4
7.5°	1907.2	1907.2	1902.2	1902.2	1897.3	1892.3	1877.3	1862.4	1857.4	1852.4	1852.4
10°	1947.1	1942.1	1937.1	1927.1	1927.1	1927.1	1907.2	1892.3	1887.3	1887.3	1887.3
12.5°	2041.7	2036.7	2026.7	2011.8	2011.8	2016.8	1986.9	1967.0	1967.0	1962.0	1962.0
15°	2181.1	2176.1	2166.2	2141.3	2136.3	2146.2	2101.4	2081.5	2081.5	2081.5	2076.5
17.5°	2335.5	2325.5	2310.6	2290.6	2290.6	2290.6	2245.8	2220.9	2206.0	2206.0	2201.0
20°	2464.9	2460.0	2460.0	2455.0	2469.9	2469.9	2410.2	2370.3	2335.5	2315.5	2310.6
22.5°	2579.5	2574.5	2584.4	2604.4	2634.2	2644.2	2574.5	2514.7	2460.0	2420.1	2410.2
25°	2733.8	2728.9	2723.9	2753.8	2803.6	2818.5	2743.8	2669.1	2614.3	2594.4	2584.4
27.5°	2898.2	2903.1	2908.1	2938.0	2977.8	3002.7	2928.0	2858.3	2813.5	2783.6	2773.7
30°	3082.4	3092.4	3107.3	3152.1	3182.0	3192.0	3127.2	3077.4	3037.6	3012.7	2997.8
32.5°	3316.5	3336.4	3356.3	3396.1	3411.1	3401.1	3371.2	3336.4	3306.5	3271.6	3266.7
35°	3665.0	3685.0	3680.0	3694.9	3699.9	3689.9	3675.0	3655.1	3640.1	3595.3	3590.3
37.5°	4103.2	4123.2	4093.3	4078.3	4043.5	4048.5	4043.5	4058.4	4063.4	4018.6	4013.6
40°	4546.4	4566.4	4526.5	4486.7	4451.8	4436.9	4461.8	4511.6	4511.6	4481.7	4481.7
42.5°	5019.5	5034.4	4969.7	4919.9	4875.1	4865.1	4880.1	4939.8	4954.8	4949.8	4949.8
45°	5492.6	5482.6	5398.0	5348.2	5308.3	5283.4	5288.4	5333.2	5363.1	5378.0	5378.0
47.5°	5856.1	5841.2	5771.4	5731.6	5706.7	5671.8	5671.8	5696.7	5711.7	5716.7	5716.7
50°	6144.9	6130.0	6060.3	6055.3	6055.3	6040.3	6025.4	6020.4	6010.5	6015.4	6015.4
52.5°	6393.9	6374.0	6324.2	6334.1	6379.0	6388.9	6369.0	6329.2	6289.3	6274.4	6279.4
55°	6662.8	6632.9	6593.1	6623.0	6712.6	6752.4	6722.6	6642.9	6573.2	6528.3	6528.3
57.5°	6876.9	6842.1	6842.1	6926.7	7091.1	7170.7	7106.0	6956.6	6837.1	6787.3	6792.3
60°	6727.5	6697.7	6817.2	7190.6	7499.4	7633.8	7524.3	7260.4	7066.2	7006.4	7016.4
62.5°	6433.7	6413.8	6563.2	7140.8	7867.9	8146.7	7982.4	7604.0	7315.1	7245.4	7245.4
65°	6000.5	5995.5	6204.7	6916.8	7952.5	8639.7	8500.3	7977.4	7604.0	7509.3	7529.3
67.5°	5552.3	5552.3	5741.6	6533.3	7852.9	8848.9	8958.4	8316.0	7743.4	7509.3	7514.3
70°	4760.6	4845.2	5348.2	6179.8	7489.4	8699.5	9147.7	8077.0	7135.9	6722.6	6707.6
72.5°	3137.2	3246.7	4247.7	5562.3	7130.9	8156.7	8256.3	7096.0	5925.8	5442.8	5417.9
75°	1892.3	1986.9	2753.8	4342.3	6269.4	6568.2	6130.0	5562.3	4426.9	4048.5	4048.5
77.5°	557.7	622.5	1269.8	2753.8	4337.3	4317.4	3779.6	3276.6	2619.3	2225.9	2255.8
80°	328.7	338.6	413.3	1254.9	1797.7	1892.3	1459.0	911.3	911.3	677.2	657.3
82.5°	254.0	254.0	263.9	313.7	433.2	483.0	368.5	313.7	358.5	303.8	288.8
85°	179.3	179.3	179.3	184.2	189.2	194.2	204.2	209.1	229.1	189.2	179.3
87.5°	54.8	59.8	64.7	74.7	89.6	94.6	99.6	89.6	89.6	84.7	79.7
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)