

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: P841936

Luminaire Tested: **ARCH4-250-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841936
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: ARCH4-250-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31605 lumens
Efficiency: N/A
Efficacy: 126.7 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

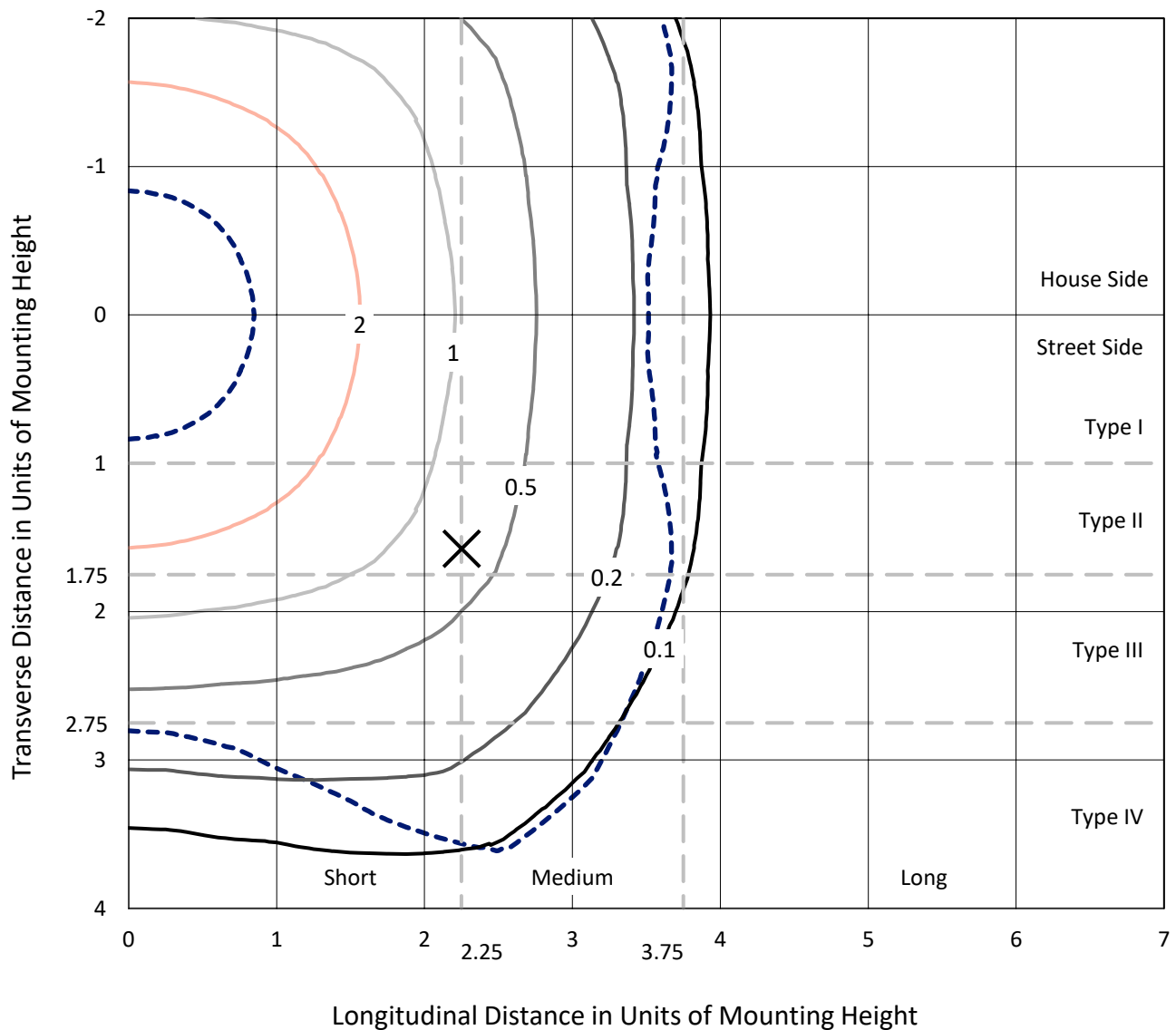
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

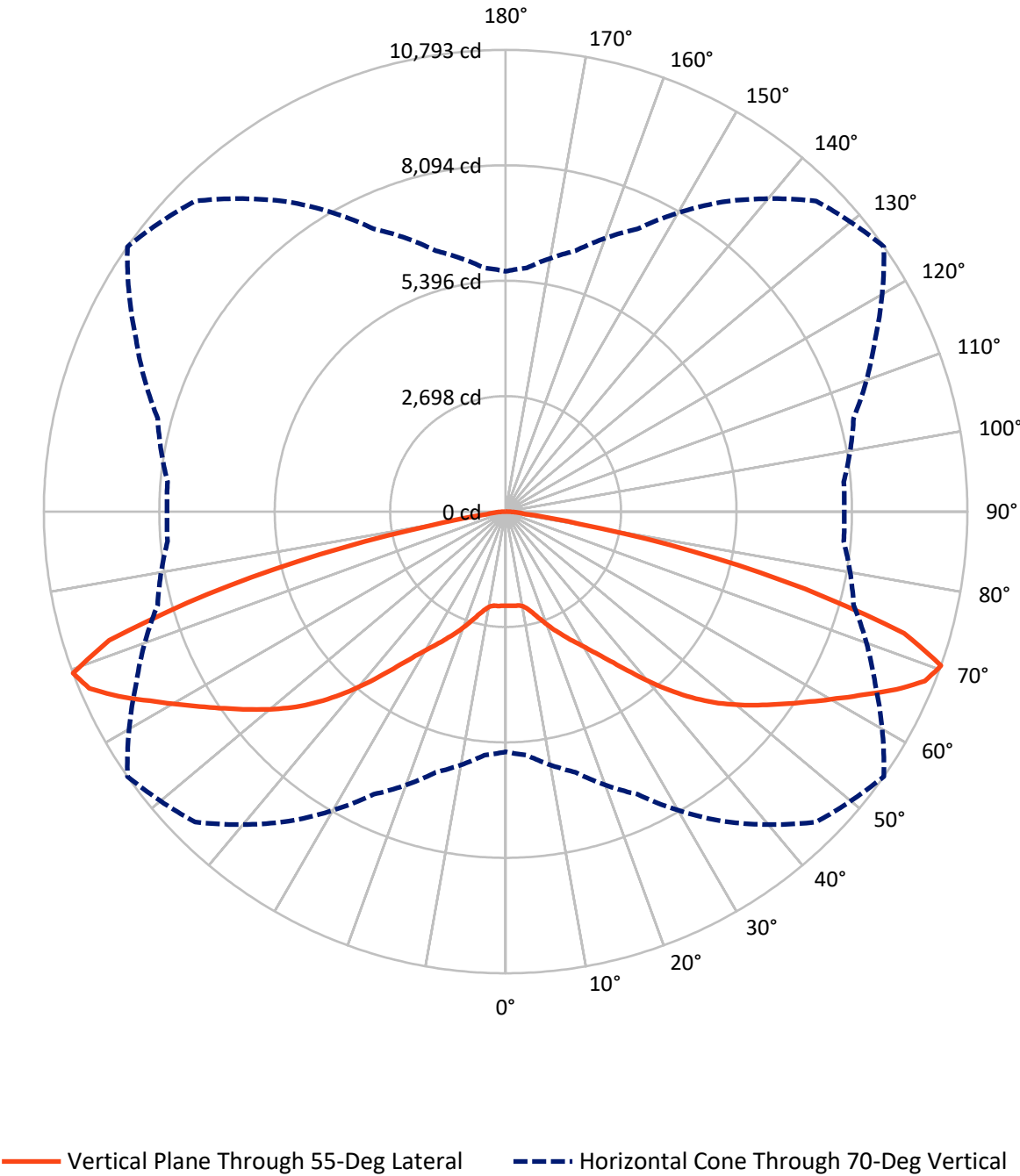
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15802.5	0.0	15802.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15802.5	0.0	15802.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31605.0	0.0	31605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	0.7
10°-20°	723.9	2.3
20°-30°	1504.1	4.8
30°-40°	2778.0	8.8
40°-50°	4880.4	15.4
50°-60°	7038.7	22.3
60°-70°	8614.6	27.3
70°-80°	5481.7	17.3
80°-90°	370.9	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°	31605.0	100.0
0°-180°	31605.0	100.0

Coefficient of Utilization



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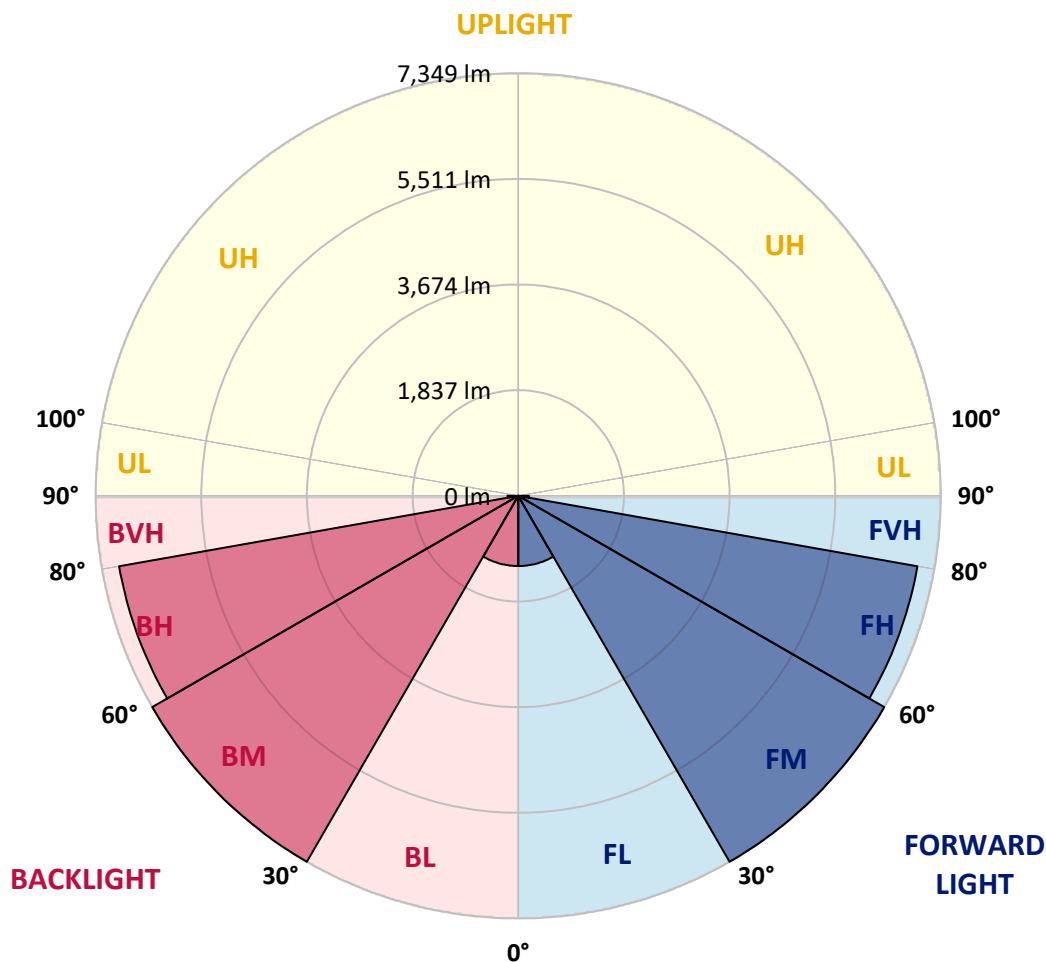
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1220.4	3.9			
FM	(30°-60°)	7348.6	23.3			
FH	(60°-80°)	7048.1	22.3			G3/7500
FVH	(80°-90°)	185.5	0.6			G2/225
BL	(0°-30°)	1220.4	3.9	B3/2500		
BM	(30°-60°)	7348.6	23.3	B4/8500		
BH	(60°-80°)	7048.1	22.3	B5		G3/7500
BVH	(80°-90°)	185.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2	2203.2
2.5°	2232.5	2232.5	2226.7	2226.7	2214.9	2209.0	2203.2	2203.2	2197.3	2197.3	2191.4
5°	2244.3	2244.3	2244.3	2238.4	2232.5	2226.7	2214.9	2203.2	2197.3	2191.4	2185.5
7.5°	2250.2	2250.2	2244.3	2244.3	2238.4	2232.5	2214.9	2197.3	2191.4	2185.5	2185.5
10°	2297.2	2291.3	2285.4	2273.7	2273.7	2273.7	2250.2	2232.5	2226.7	2226.7	2226.7
12.5°	2408.8	2402.9	2391.2	2373.5	2373.5	2379.4	2344.2	2320.7	2320.7	2314.8	2314.8
15°	2573.3	2567.4	2555.7	2526.3	2520.4	2532.2	2479.3	2455.8	2455.8	2455.8	2449.9
17.5°	2755.4	2743.7	2726.1	2702.6	2702.6	2702.6	2649.7	2620.3	2602.7	2602.7	2596.8
20°	2908.2	2902.3	2902.3	2896.4	2914.1	2914.1	2843.6	2796.6	2755.4	2731.9	2726.1
22.5°	3043.3	3037.4	3049.2	3072.7	3107.9	3119.7	3037.4	2966.9	2902.3	2855.3	2843.6
25°	3225.4	3219.6	3213.7	3248.9	3307.7	3325.3	3237.2	3149.1	3084.4	3060.9	3049.2
27.5°	3419.3	3425.2	3431.1	3466.3	3513.3	3542.7	3454.6	3372.3	3319.4	3284.2	3272.4
30°	3636.7	3648.4	3666.1	3718.9	3754.2	3765.9	3689.6	3630.8	3583.8	3554.4	3536.8
32.5°	3912.8	3936.3	3959.8	4006.8	4024.5	4012.7	3977.5	3936.3	3901.1	3859.9	3854.1
35°	4324.1	4347.6	4341.7	4359.3	4365.2	4353.5	4335.8	4312.3	4294.7	4241.8	4236.0
37.5°	4841.1	4864.6	4829.3	4811.7	4770.6	4776.5	4770.6	4788.2	4794.1	4741.2	4735.3
40°	5364.0	5387.5	5340.5	5293.5	5252.3	5234.7	5264.1	5322.9	5322.9	5287.6	5287.6
42.5°	5922.1	5939.7	5863.4	5804.6	5751.7	5740.0	5757.6	5828.1	5845.7	5839.9	5839.9
45°	6480.2	6468.5	6368.6	6309.9	6262.9	6233.5	6239.4	6292.2	6327.5	6345.1	6345.1
47.5°	6909.1	6891.5	6809.3	6762.3	6732.9	6691.8	6691.8	6721.1	6738.8	6744.6	6744.6
50°	7249.9	7232.3	7150.0	7144.1	7144.1	7126.5	7108.9	7103.0	7091.3	7097.1	7097.1
52.5°	7543.6	7520.1	7461.4	7473.1	7526.0	7537.8	7514.3	7467.3	7420.3	7402.6	7408.5
55°	7860.9	7825.6	7778.6	7813.9	7919.6	7966.7	7931.4	7837.4	7755.1	7702.3	7702.3
57.5°	8113.5	8072.4	8072.4	8172.3	8366.2	8460.2	8383.8	8207.5	8066.5	8007.8	8013.7
60°	7937.3	7902.0	8043.0	8483.7	8847.9	9006.5	8877.3	8565.9	8336.8	8266.3	8278.0
62.5°	7590.6	7567.1	7743.4	8424.9	9282.7	9611.7	9417.8	8971.3	8630.5	8548.3	8548.3
65°	7079.5	7073.6	7320.4	8160.5	9382.6	10193.3	10028.8	9411.9	8971.3	8859.7	8883.2
67.5°	6550.7	6550.7	6774.0	7708.1	9265.1	10440.1	10569.3	9811.4	9135.8	8859.7	8865.5
70°	5616.6	5716.5	6309.9	7291.0	8836.2	10263.8	10792.6	9529.4	8419.0	7931.4	7913.8
72.5°	3701.3	3830.6	5011.5	6562.5	8413.2	9623.4	9740.9	8372.0	6991.4	6421.5	6392.1
75°	2232.5	2344.2	3248.9	5123.1	7396.8	7749.3	7232.3	6562.5	5223.0	4776.5	4776.5
77.5°	658.0	734.4	1498.2	3248.9	5117.2	5093.7	4459.2	3865.8	3090.3	2626.2	2661.4
80°	387.8	399.5	487.6	1480.5	2120.9	2232.5	1721.4	1075.1	1075.1	799.0	775.5
82.5°	299.6	299.6	311.4	370.1	511.1	569.9	434.8	370.1	423.0	358.4	340.8
85°	211.5	211.5	211.5	217.4	223.3	229.1	240.9	246.8	270.3	223.3	211.5
87.5°	64.6	70.5	76.4	88.1	105.8	111.6	117.5	105.8	105.8	99.9	94.0
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)