

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: P841810

Luminaire Tested: **ARCH4-230-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841810
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: ARCH4-230-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34050 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 231.2
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

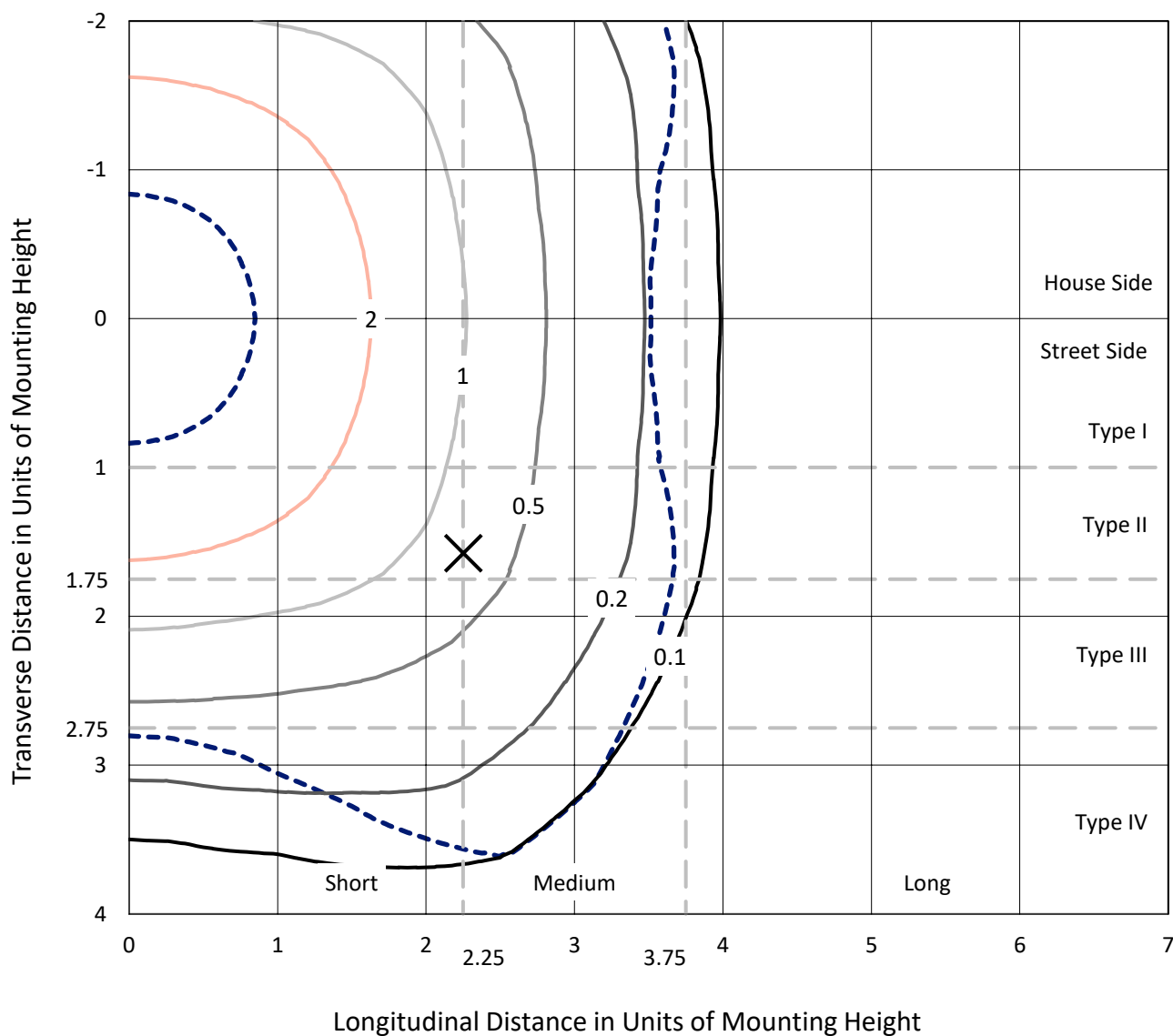


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Iso-Footcandle Lines of Horizontal Illumination

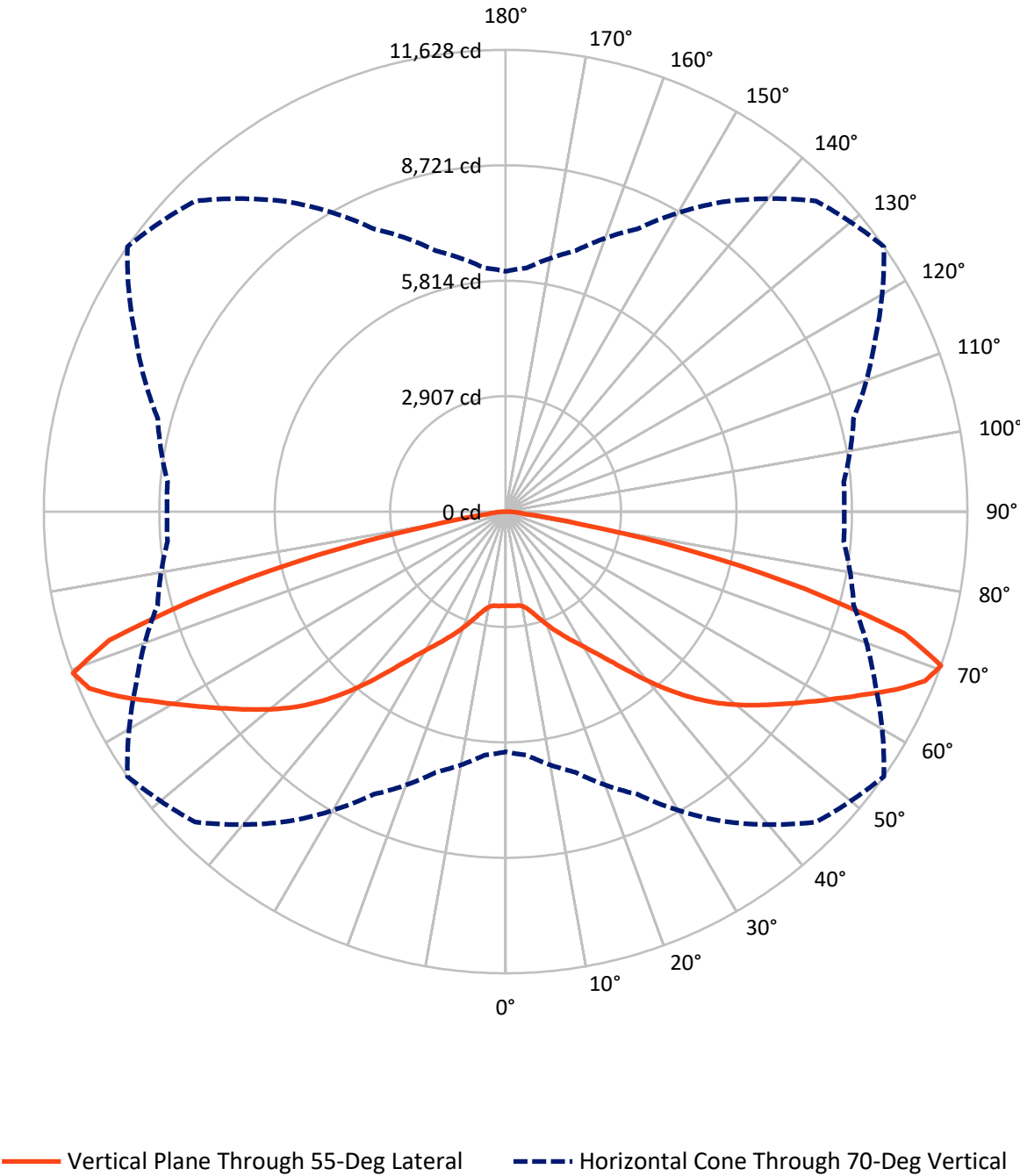
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	17025.0	0.0	17025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17025.0	0.0	17025.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34050.0	0.0	34050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	0.7
10°-20°	779.9	2.3
20°-30°	1620.5	4.8
30°-40°	2992.9	8.8
40°-50°	5258.0	15.4
50°-60°	7583.2	22.3
60°-70°	9281.0	27.3
70°-80°	5905.7	17.3
80°-90°	399.6	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°	34050.0	100.0
0°-180°	34050.0	100.0

Coefficient of Utilization



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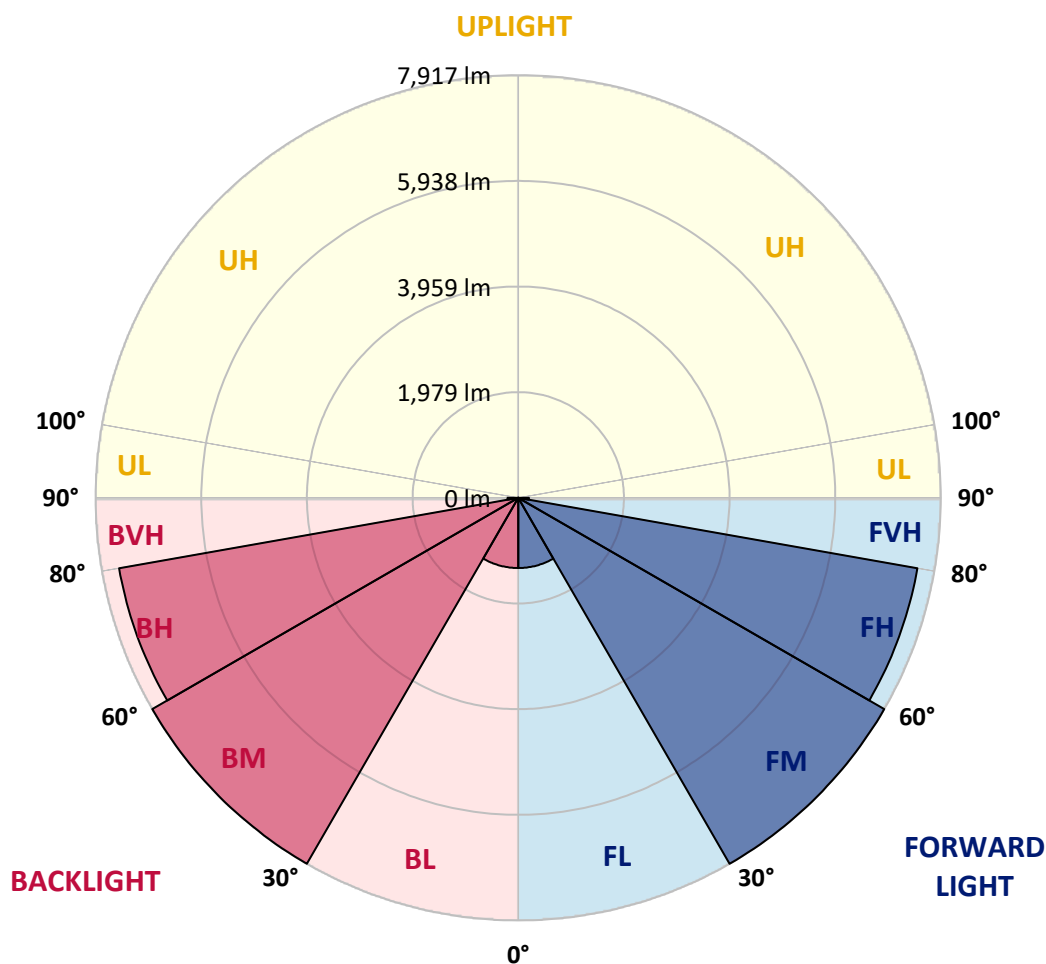
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.8	3.9			
FM	(30°-60°)	7917.1	23.3			
FH	(60°-80°)	7593.4	22.3			G4/12000
FVH	(80°-90°)	199.8	0.6			G2/225
BL	(0°-30°)	1314.8	3.9	B3/2500		
BM	(30°-60°)	7917.1	23.3	B4/8500		
BH	(60°-80°)	7593.4	22.3	B5		G4/12000
BVH	(80°-90°)	199.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6
2.5°	2405.3	2405.3	2398.9	2398.9	2386.3	2379.9	2373.6	2373.6	2367.3	2367.3	2360.9
5°	2417.9	2417.9	2417.9	2411.6	2405.3	2398.9	2386.3	2373.6	2367.3	2360.9	2354.6
7.5°	2424.2	2424.2	2417.9	2417.9	2411.6	2405.3	2386.3	2367.3	2360.9	2354.6	2354.6
10°	2474.9	2468.6	2462.2	2449.6	2449.6	2449.6	2424.2	2405.3	2398.9	2398.9	2398.9
12.5°	2595.1	2588.8	2576.2	2557.2	2557.2	2563.5	2525.5	2500.2	2500.2	2493.9	2493.9
15°	2772.4	2766.0	2753.4	2721.7	2715.4	2728.1	2671.1	2645.8	2645.8	2645.8	2639.5
17.5°	2968.6	2955.9	2936.9	2911.6	2911.6	2911.6	2854.7	2823.0	2804.0	2804.0	2797.7
20°	3133.2	3126.8	3126.8	3120.5	3139.5	3139.5	3063.5	3012.9	2968.6	2943.3	2936.9
22.5°	3278.7	3272.4	3285.1	3310.4	3348.4	3361.0	3272.4	3196.5	3126.8	3076.2	3063.5
25°	3475.0	3468.6	3462.3	3500.3	3563.6	3582.6	3487.6	3392.7	3323.0	3297.7	3285.1
27.5°	3683.8	3690.2	3696.5	3734.5	3785.1	3816.8	3721.8	3633.2	3576.2	3538.3	3525.6
30°	3918.0	3930.7	3949.7	4006.6	4044.6	4057.3	3975.0	3911.7	3861.1	3829.4	3810.4
32.5°	4215.5	4240.8	4266.2	4316.8	4335.8	4323.1	4285.2	4240.8	4202.9	4158.6	4152.2
35°	4658.6	4683.9	4677.6	4696.6	4702.9	4690.2	4671.3	4645.9	4626.9	4570.0	4563.7
37.5°	5215.6	5240.9	5202.9	5184.0	5139.6	5146.0	5139.6	5158.6	5165.0	5108.0	5101.7
40°	5778.9	5804.3	5753.6	5703.0	5658.7	5639.7	5671.3	5734.6	5734.6	5696.7	5696.7
42.5°	6380.3	6399.2	6317.0	6253.7	6196.7	6184.0	6203.0	6279.0	6298.0	6291.6	6291.6
45°	6981.6	6968.9	6861.3	6798.0	6747.4	6715.7	6722.1	6779.0	6817.0	6836.0	6836.0
47.5°	7443.6	7424.6	7336.0	7285.4	7253.7	7209.4	7209.4	7241.1	7260.1	7266.4	7266.4
50°	7810.7	7791.8	7703.1	7696.8	7696.8	7677.8	7658.8	7652.5	7639.8	7646.2	7646.2
52.5°	8127.2	8101.9	8038.6	8051.3	8108.2	8120.9	8095.6	8044.9	7994.3	7975.3	7981.6
55°	8469.0	8431.0	8380.4	8418.4	8532.3	8583.0	8545.0	8443.7	8355.1	8298.1	8298.1
57.5°	8741.2	8696.9	8696.9	8804.5	9013.4	9114.6	9032.4	8842.5	8690.6	8627.3	8633.6
60°	8551.3	8513.3	8665.2	9140.0	9532.4	9703.3	9564.1	9228.6	8981.7	8905.8	8918.4
62.5°	8177.9	8152.5	8342.4	9076.7	10000.8	10355.3	10146.4	9665.3	9298.2	9209.6	9209.6
65°	7627.2	7620.9	7886.7	8791.8	10108.4	10981.9	10804.7	10140.0	9665.3	9545.1	9570.4
67.5°	7057.5	7057.5	7298.0	8304.5	9981.8	11247.7	11387.0	10570.5	9842.6	9545.1	9551.4
70°	6051.1	6158.7	6798.0	7855.1	9519.7	11057.8	11627.5	10266.6	9070.3	8545.0	8526.0
72.5°	3987.7	4126.9	5399.2	7070.2	9064.0	10367.9	10494.5	9019.7	7532.2	6918.3	6886.6
75°	2405.3	2525.5	3500.3	5519.4	7969.0	8348.8	7791.8	7070.2	5627.0	5146.0	5146.0
77.5°	708.9	791.2	1614.1	3500.3	5513.1	5487.8	4804.2	4164.9	3329.4	2829.3	2867.3
80°	417.8	430.4	525.4	1595.1	2285.0	2405.3	1854.6	1158.3	1158.3	860.8	835.5
82.5°	322.8	322.8	335.5	398.8	550.7	614.0	468.4	398.8	455.7	386.1	367.1
85°	227.9	227.9	227.9	234.2	240.5	246.9	259.5	265.8	291.2	240.5	227.9
87.5°	69.6	76.0	82.3	94.9	113.9	120.3	126.6	113.9	113.9	107.6	101.3
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)