

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: P842242

Luminaire Tested: **ARCH4-290-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842242
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: ARCH4-290-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40216 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 289.7
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

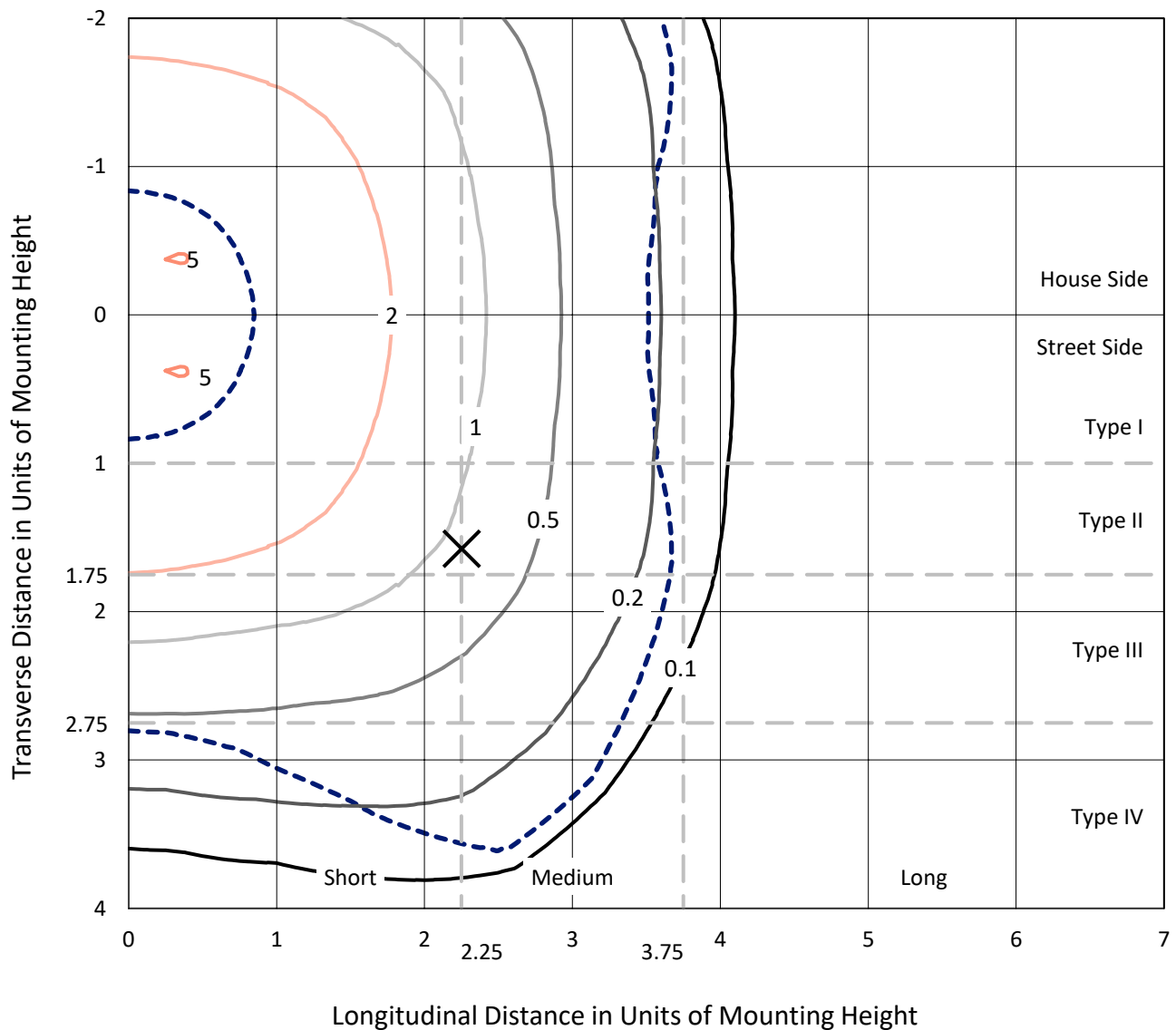


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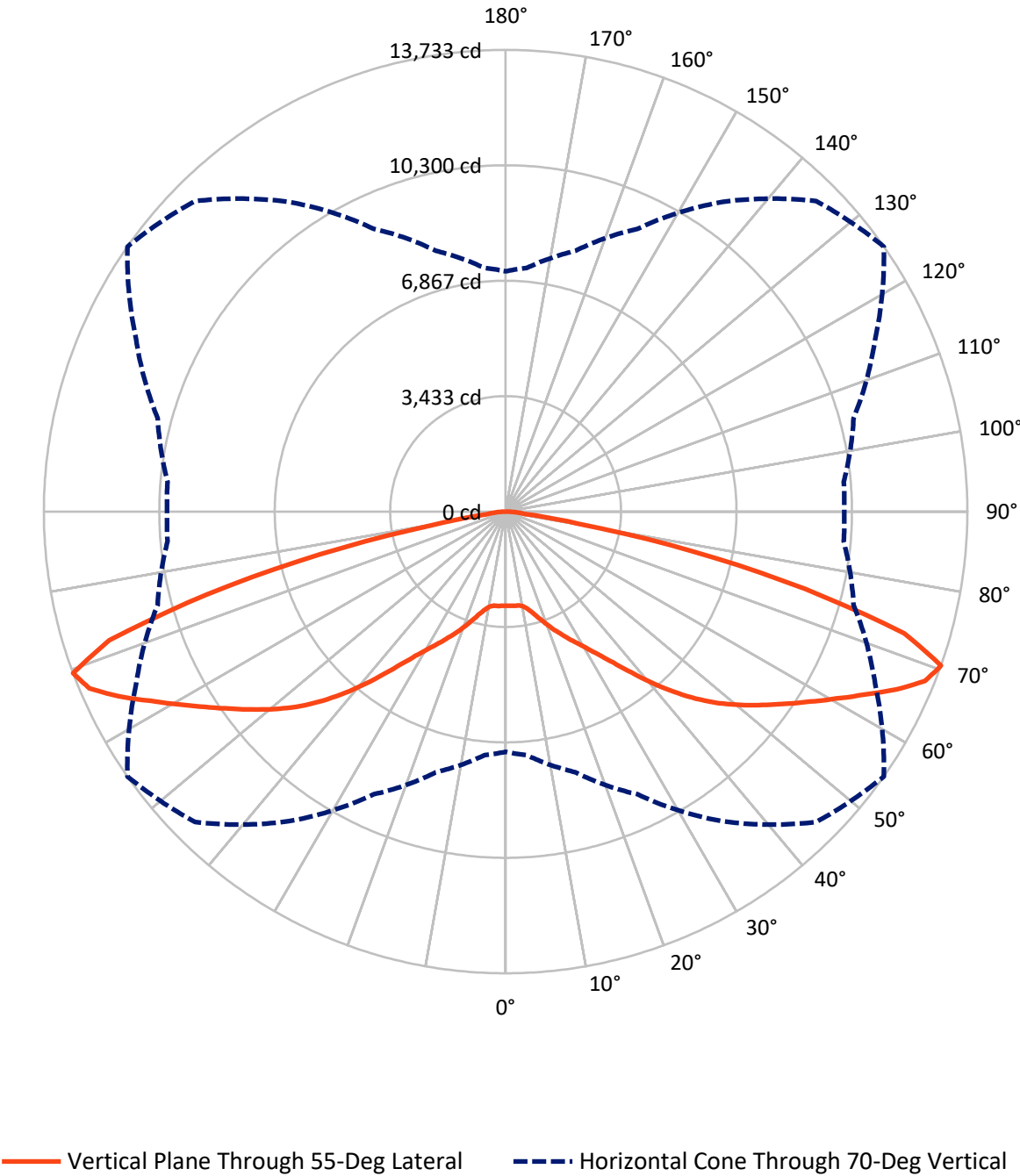
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20108.0	0.0	20108.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20108.0	0.0	20108.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40216.0	0.0	40216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	0.7
10°-20°	921.1	2.3
20°-30°	1913.9	4.8
30°-40°	3534.9	8.8
40°-50°	6210.1	15.4
50°-60°	8956.4	22.3
60°-70°	10961.7	27.3
70°-80°	6975.2	17.3
80°-90°	472.0	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°	40216.0	100.0
0°-180°	40216.0	100.0

Coefficient of Utilization



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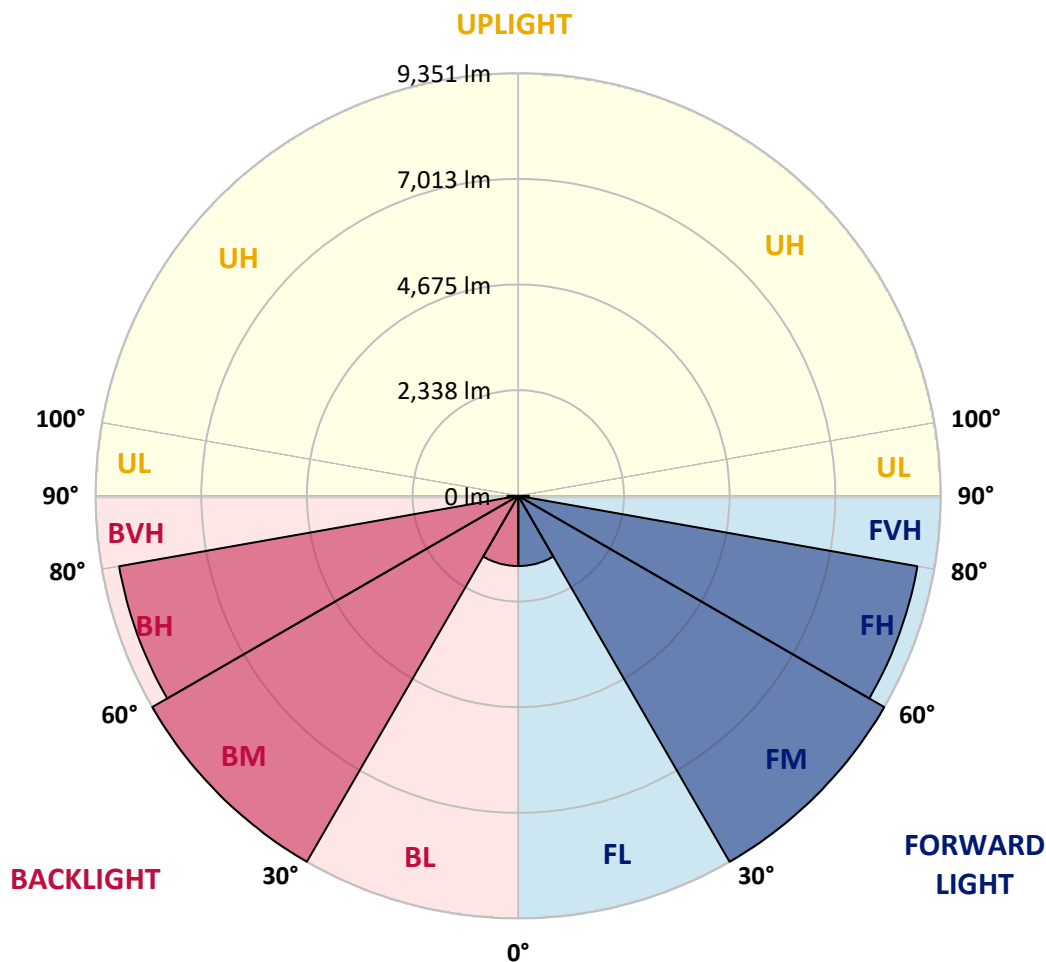
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.9	3.9			
FM	(30°-60°)	9350.7	23.3			
FH	(60°-80°)	8968.4	22.3			G4/12000
FVH	(80°-90°)	236.0	0.6			G3/500
BL	(0°-30°)	1552.9	3.9	B3/2500		
BM	(30°-60°)	9350.7	23.3	B5		
BH	(60°-80°)	8968.4	22.3	B5		G4/12000
BVH	(80°-90°)	236.0	0.6			G3/500
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°	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4	2803.4
2.5°	2840.8	2840.8	2833.3	2833.3	2818.4	2810.9	2803.4	2796.0	2796.0	2788.5	2788.5
5°	2855.8	2855.8	2855.8	2848.3	2840.8	2833.3	2818.4	2803.4	2796.0	2788.5	2781.0
7.5°	2863.2	2863.2	2855.8	2855.8	2848.3	2840.8	2818.4	2796.0	2788.5	2781.0	2781.0
10°	2923.0	2915.6	2908.1	2893.1	2893.1	2893.1	2863.2	2840.8	2833.3	2833.3	2833.3
12.5°	3065.1	3057.6	3042.7	3020.2	3020.2	3027.7	2982.9	2953.0	2953.0	2945.5	2945.5
15°	3274.4	3266.9	3252.0	3214.6	3207.1	3222.1	3154.8	3124.9	3124.9	3124.9	3117.4
17.5°	3506.2	3491.2	3468.8	3438.9	3438.9	3438.9	3371.6	3334.2	3311.8	3311.8	3304.3
20°	3700.5	3693.1	3693.1	3685.6	3708.0	3708.0	3618.3	3558.5	3506.2	3476.3	3468.8
22.5°	3872.5	3865.0	3880.0	3909.9	3954.7	3969.7	3865.0	3775.3	3693.1	3633.3	3618.3
25°	4104.2	4096.8	4089.3	4134.1	4208.9	4231.3	4119.2	4007.0	3924.8	3894.9	3880.0
27.5°	4350.9	4358.4	4365.9	4410.7	4470.5	4507.9	4395.8	4291.1	4223.8	4179.0	4164.0
30°	4627.5	4642.5	4664.9	4732.2	4777.1	4792.0	4694.8	4620.1	4560.3	4522.9	4500.4
32.5°	4978.9	5008.8	5038.7	5098.5	5120.9	5106.0	5061.1	5008.8	4963.9	4911.6	4904.1
35°	5502.2	5532.1	5524.6	5547.1	5554.5	5539.6	5517.2	5487.3	5464.8	5397.5	5390.1
37.5°	6160.1	6190.0	6145.1	6122.7	6070.4	6077.8	6070.4	6092.8	6100.3	6033.0	6025.5
40°	6825.4	6855.3	6795.5	6735.7	6683.4	6661.0	6698.3	6773.1	6773.1	6728.2	6728.2
42.5°	7535.6	7558.1	7460.9	7386.1	7318.8	7303.9	7326.3	7416.0	7438.4	7431.0	7431.0
45°	8245.8	8230.9	8103.8	8029.0	7969.2	7931.9	7939.3	8006.6	8051.5	8073.9	8073.9
47.5°	8791.6	8769.1	8664.5	8604.7	8567.3	8515.0	8515.0	8552.3	8574.8	8582.2	8582.2
50°	9225.2	9202.7	9098.1	9090.6	9090.6	9068.2	9045.7	9038.3	9023.3	9030.8	9030.8
52.5°	9599.0	9569.1	9494.3	9509.3	9576.5	9591.5	9561.6	9501.8	9442.0	9419.5	9427.0
55°	10002.7	9957.8	9898.0	9942.8	10077.4	10137.2	10092.4	9972.8	9868.1	9800.8	9800.8
57.5°	10324.1	10271.8	10271.8	10398.9	10645.6	10765.2	10668.0	10443.7	10264.3	10189.6	10197.0
60°	10099.8	10055.0	10234.4	10795.1	11258.6	11460.4	11296.0	10899.8	10608.2	10518.5	10533.4
62.5°	9658.8	9628.9	9853.1	10720.3	11811.8	12230.5	11983.7	11415.6	10982.0	10877.3	10877.3
65°	9008.4	9000.9	9314.9	10383.9	11938.9	12970.6	12761.2	11976.3	11415.6	11273.5	11303.4
67.5°	8335.5	8335.5	8619.6	9808.3	11789.4	13284.5	13449.0	12484.6	11624.9	11273.5	11281.0
70°	7146.9	7274.0	8029.0	9277.5	11243.6	13060.3	13733.1	12125.8	10712.9	10092.4	10069.9
72.5°	4709.8	4874.2	6376.9	8350.5	10705.4	12245.4	12394.9	10653.1	8896.2	8171.1	8133.7
75°	2840.8	2982.9	4134.1	6518.9	9412.1	9860.6	9202.7	8350.5	6646.0	6077.8	6077.8
77.5°	837.3	934.5	1906.3	4134.1	6511.4	6481.5	5674.2	4919.1	3932.3	3341.7	3386.5
80°	493.4	508.4	620.5	1883.9	2698.8	2840.8	2190.4	1368.1	1368.1	1016.7	986.8
82.5°	381.3	381.3	396.2	471.0	650.4	725.2	553.2	471.0	538.3	456.0	433.6
85°	269.1	269.1	269.1	276.6	284.1	291.6	306.5	314.0	343.9	284.1	269.1
87.5°	82.2	89.7	97.2	112.1	134.6	142.0	149.5	134.6	134.6	127.1	119.6
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)