

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: P841576

Luminaire Tested: **ARCH4-200-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841576
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: ARCH4-200-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26869 lumens
Efficiency: N/A
Efficacy: 131.9 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): 203.7
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

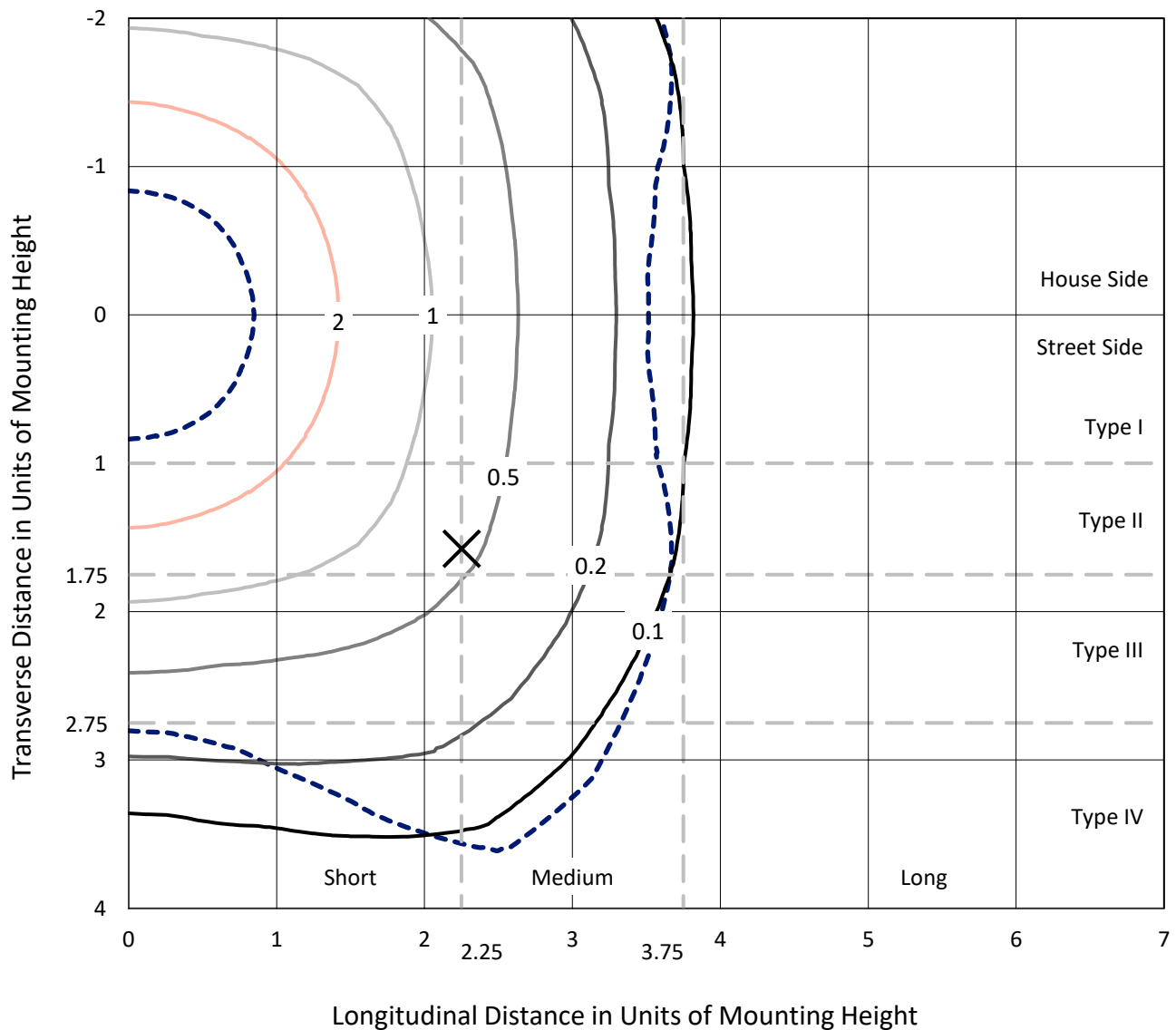


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Iso-Footcandle Lines of Horizontal Illumination

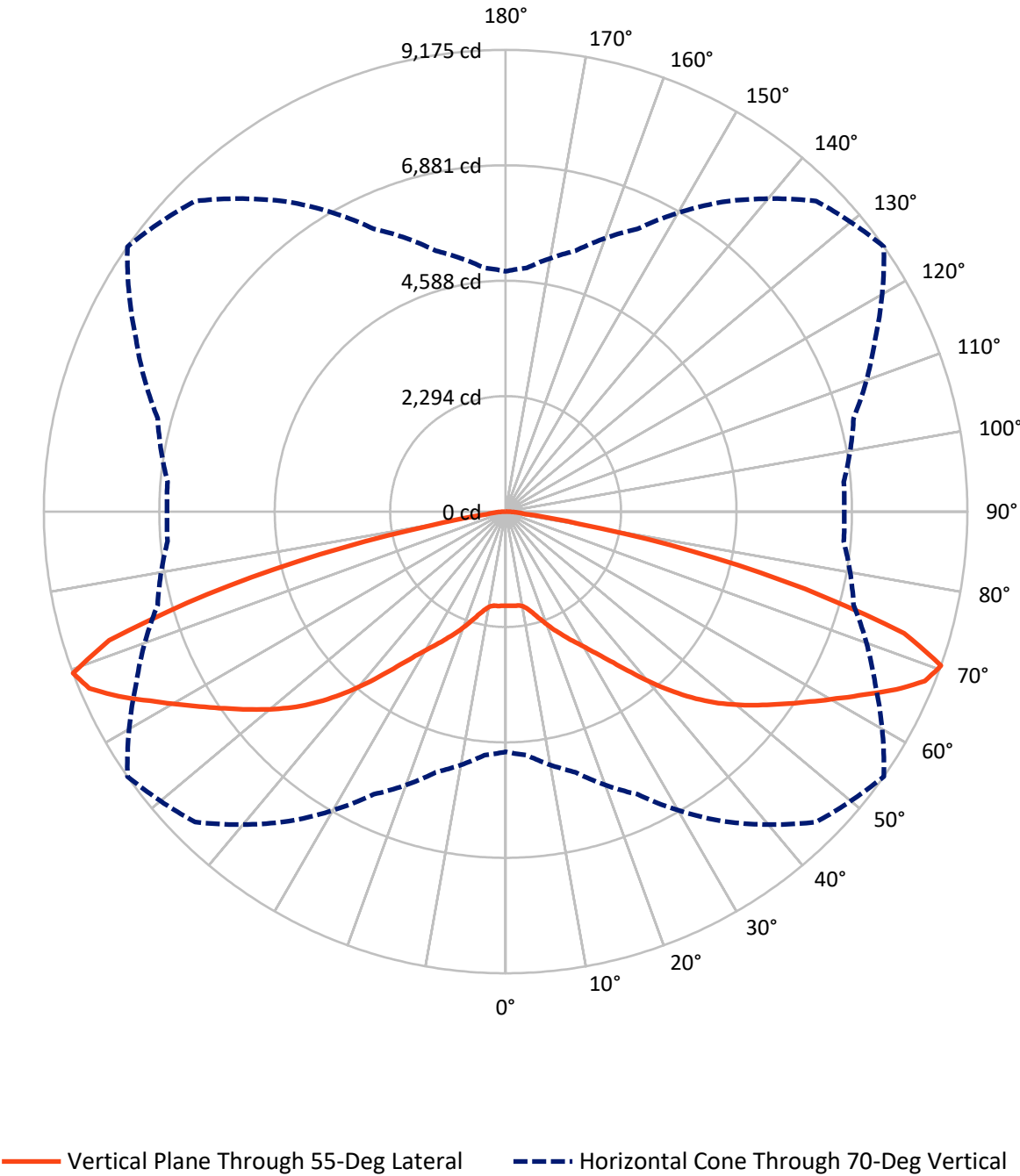
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	13434.5	0.0	13434.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13434.5	0.0	13434.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26869.0	0.0	26869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	0.7
10°-20°	615.4	2.3
20°-30°	1278.7	4.8
30°-40°	2361.7	8.8
40°-50°	4149.1	15.4
50°-60°	5984.0	22.3
60°-70°	7323.7	27.3
70°-80°	4660.2	17.3
80°-90°	315.3	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°	26869.0	100.0
0°-180°	26869.0	100.0

Coefficient of Utilization



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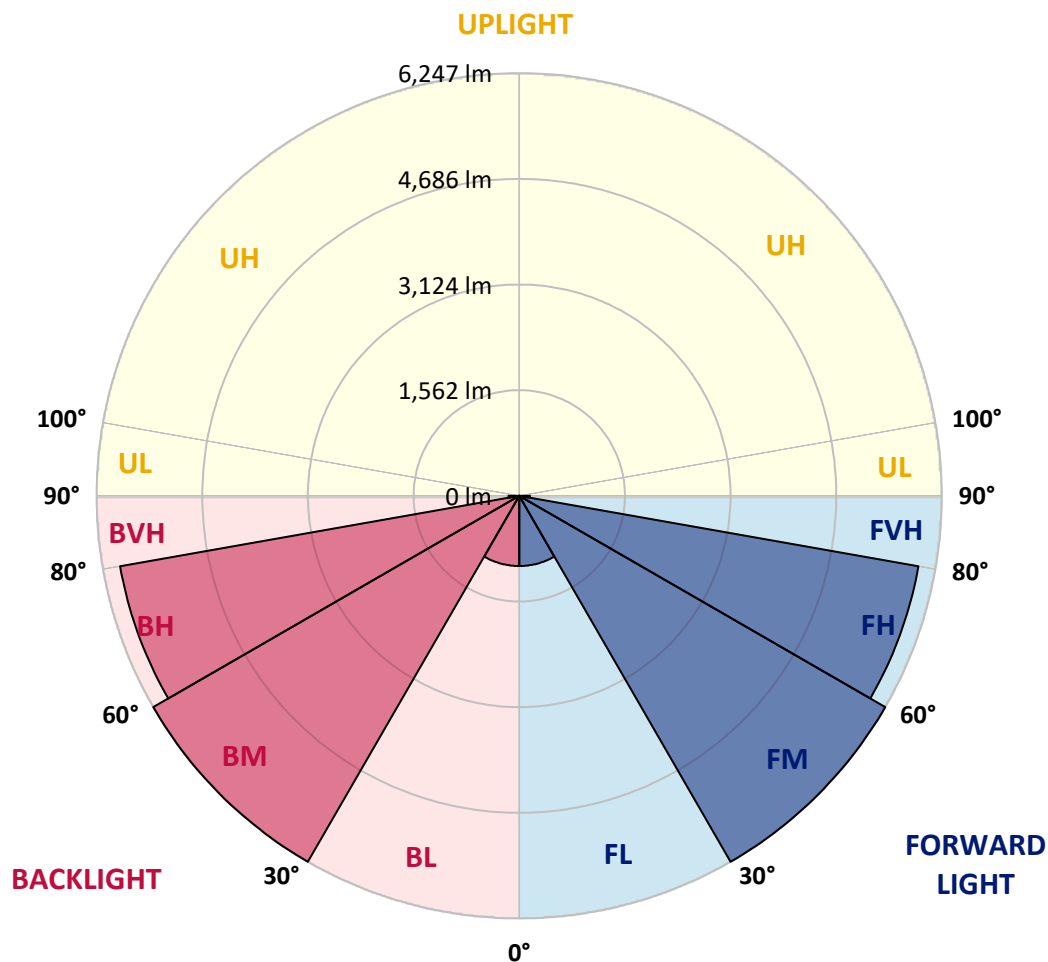
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.5	3.9			
FM	(30°-60°)	6247.4	23.3			
FH	(60°-80°)	5992.0	22.3			G3/7500
FVH	(80°-90°)	157.7	0.6			G2/225
BL	(0°-30°)	1037.5	3.9	B3/2500		
BM	(30°-60°)	6247.4	23.3	B4/8500		
BH	(60°-80°)	5992.0	22.3	B5		G3/7500
BVH	(80°-90°)	157.7	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°	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0
2.5°	1898.0	1898.0	1893.0	1893.0	1883.0	1878.0	1873.0	1873.0	1868.0	1868.0	1863.0
5°	1908.0	1908.0	1908.0	1903.0	1898.0	1893.0	1883.0	1873.0	1868.0	1863.0	1858.0
7.5°	1913.0	1913.0	1908.0	1908.0	1903.0	1898.0	1883.0	1868.0	1863.0	1858.0	1858.0
10°	1952.9	1947.9	1942.9	1933.0	1933.0	1933.0	1913.0	1898.0	1893.0	1893.0	1893.0
12.5°	2047.8	2042.8	2032.9	2017.9	2017.9	2022.9	1992.9	1972.9	1972.9	1967.9	1967.9
15°	2187.7	2182.7	2172.7	2147.7	2142.7	2152.7	2107.8	2087.8	2087.8	2087.8	2082.8
17.5°	2342.5	2332.5	2317.6	2297.6	2297.6	2297.6	2252.6	2227.6	2212.7	2212.7	2207.7
20°	2472.4	2467.4	2467.4	2462.4	2477.4	2477.4	2417.4	2377.5	2342.5	2322.5	2317.6
22.5°	2587.3	2582.3	2592.3	2612.2	2642.2	2652.2	2582.3	2522.3	2467.4	2427.4	2417.4
25°	2742.1	2737.1	2732.1	2762.1	2812.0	2827.0	2752.1	2677.2	2622.2	2602.3	2592.3
27.5°	2906.9	2911.9	2916.9	2946.9	2986.8	3011.8	2936.9	2867.0	2822.0	2792.1	2782.1
30°	3091.7	3101.7	3116.7	3161.7	3191.6	3201.6	3136.7	3086.7	3046.8	3021.8	3006.8
32.5°	3326.5	3346.5	3366.4	3406.4	3421.4	3411.4	3381.4	3346.5	3316.5	3281.5	3276.5
35°	3676.1	3696.1	3691.1	3706.1	3711.1	3701.1	3686.1	3666.1	3651.1	3606.2	3601.2
37.5°	4115.7	4135.6	4105.7	4090.7	4055.7	4060.7	4055.7	4070.7	4075.7	4030.7	4025.8
40°	4560.2	4580.2	4540.2	4500.2	4465.3	4450.3	4475.3	4525.2	4525.2	4495.3	4495.3
42.5°	5034.7	5049.7	4984.7	4934.8	4889.8	4879.8	4894.8	4954.8	4969.8	4964.8	4964.8
45°	5509.2	5499.2	5414.3	5364.3	5324.4	5299.4	5304.4	5349.4	5379.3	5394.3	5394.3
47.5°	5873.8	5858.8	5788.9	5748.9	5724.0	5689.0	5689.0	5714.0	5729.0	5733.9	5733.9
50°	6163.5	6148.5	6078.6	6073.6	6073.6	6058.6	6043.6	6038.6	6028.6	6033.6	6033.6
52.5°	6413.2	6393.3	6343.3	6353.3	6398.2	6408.2	6388.3	6348.3	6308.3	6293.4	6298.4
55°	6682.9	6653.0	6613.0	6643.0	6732.9	6772.9	6742.9	6663.0	6593.0	6548.1	6548.1
57.5°	6897.7	6862.8	6862.8	6947.7	7112.5	7192.4	7127.5	6977.6	6857.8	6807.8	6812.8
60°	6747.9	6717.9	6837.8	7212.4	7522.1	7656.9	7547.0	7282.3	7087.5	7027.6	7037.6
62.5°	6453.2	6433.2	6583.1	7162.4	7891.7	8171.4	8006.5	7626.9	7337.3	7267.3	7267.3
65°	6018.6	6013.7	6223.4	6937.7	7976.6	8665.9	8526.0	8001.6	7626.9	7532.0	7552.0
67.5°	5569.1	5569.1	5758.9	6553.1	7876.7	8875.6	8985.5	8341.2	7766.8	7532.0	7537.0
70°	4775.0	4859.9	5364.3	6198.5	7512.1	8725.8	9175.3	8101.4	7157.4	6742.9	6727.9
72.5°	3146.7	3256.6	4260.5	5579.1	7152.4	8181.4	8281.3	7117.5	5943.7	5459.2	5434.3
75°	1898.0	1992.9	2762.1	4355.4	6288.4	6588.0	6148.5	5579.1	4440.3	4060.7	4060.7
77.5°	559.4	624.3	1273.7	2762.1	4350.4	4330.4	3791.0	3286.5	2627.2	2232.6	2262.6
80°	329.7	339.6	414.6	1258.7	1803.1	1898.0	1463.5	914.0	914.0	679.3	659.3
82.5°	254.7	254.7	264.7	314.7	434.5	484.5	369.6	314.7	359.6	304.7	289.7
85°	179.8	179.8	179.8	184.8	189.8	194.8	204.8	209.8	229.8	189.8	179.8
87.5°	54.9	59.9	64.9	74.9	89.9	94.9	99.9	89.9	89.9	84.9	79.9
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)