

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: P841090

Luminaire Tested: **ARCH4-130-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841090
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: ARCH4-130-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21643 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 132
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

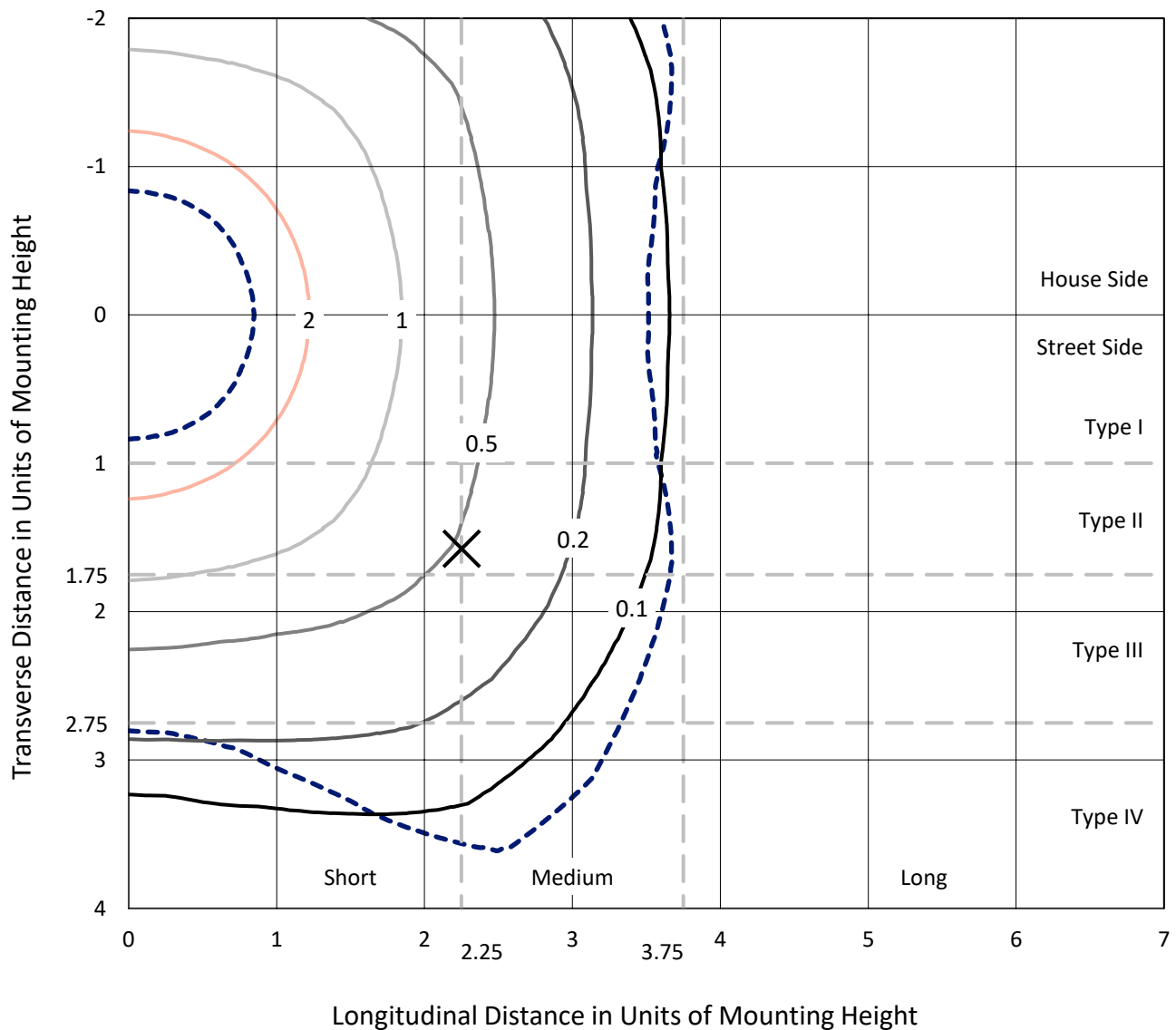


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Iso-Footcandle Lines of Horizontal Illumination

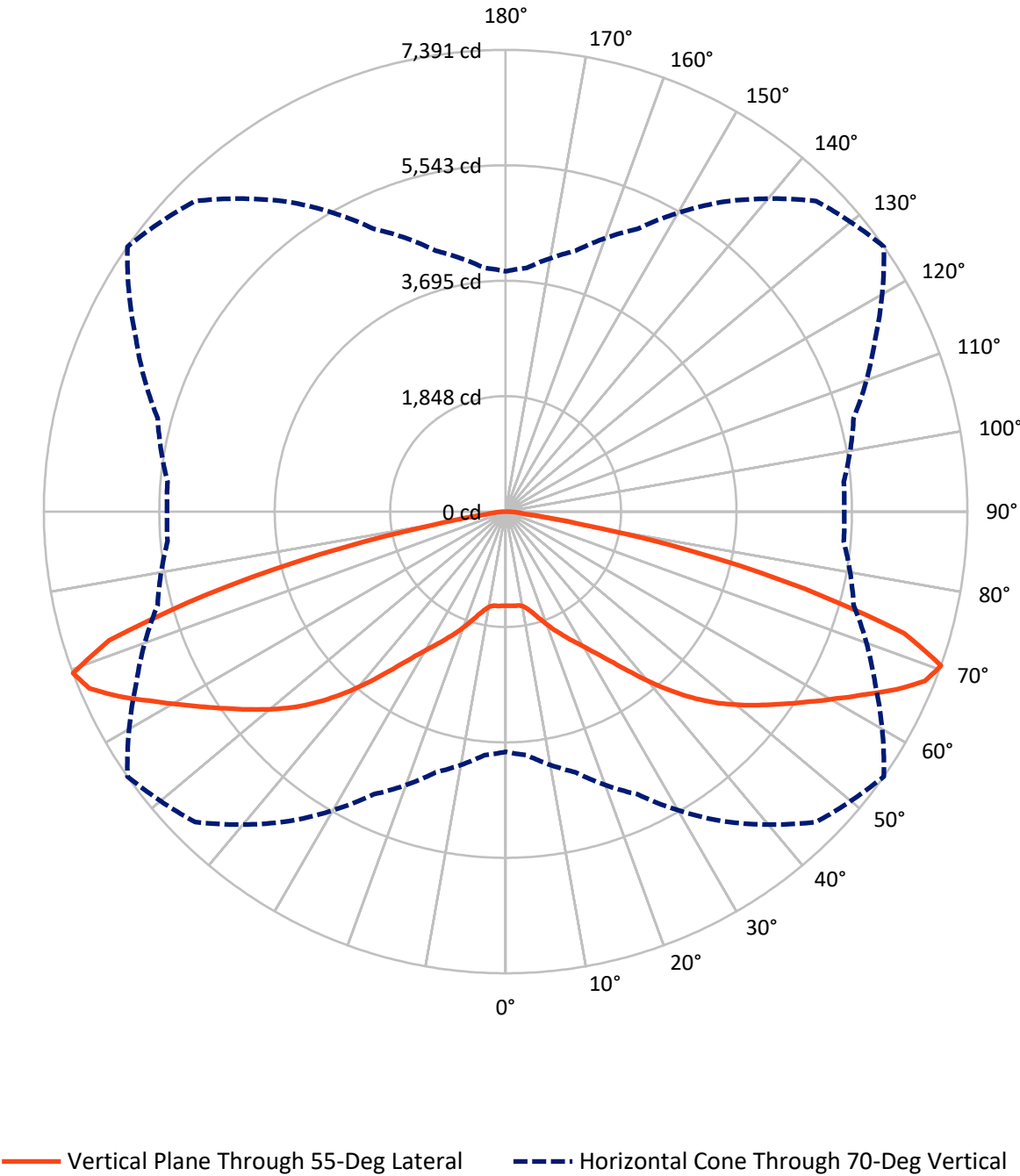
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	10821.5	0.0	10821.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10821.5	0.0	10821.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21643.0	0.0	21643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	0.7
10°-20°	495.7	2.3
20°-30°	1030.0	4.8
30°-40°	1902.4	8.8
40°-50°	3342.1	15.4
50°-60°	4820.1	22.3
60°-70°	5899.2	27.3
70°-80°	3753.8	17.3
80°-90°	254.0	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°	21643.0	100.0
0°-180°	21643.0	100.0

Coefficient of Utilization



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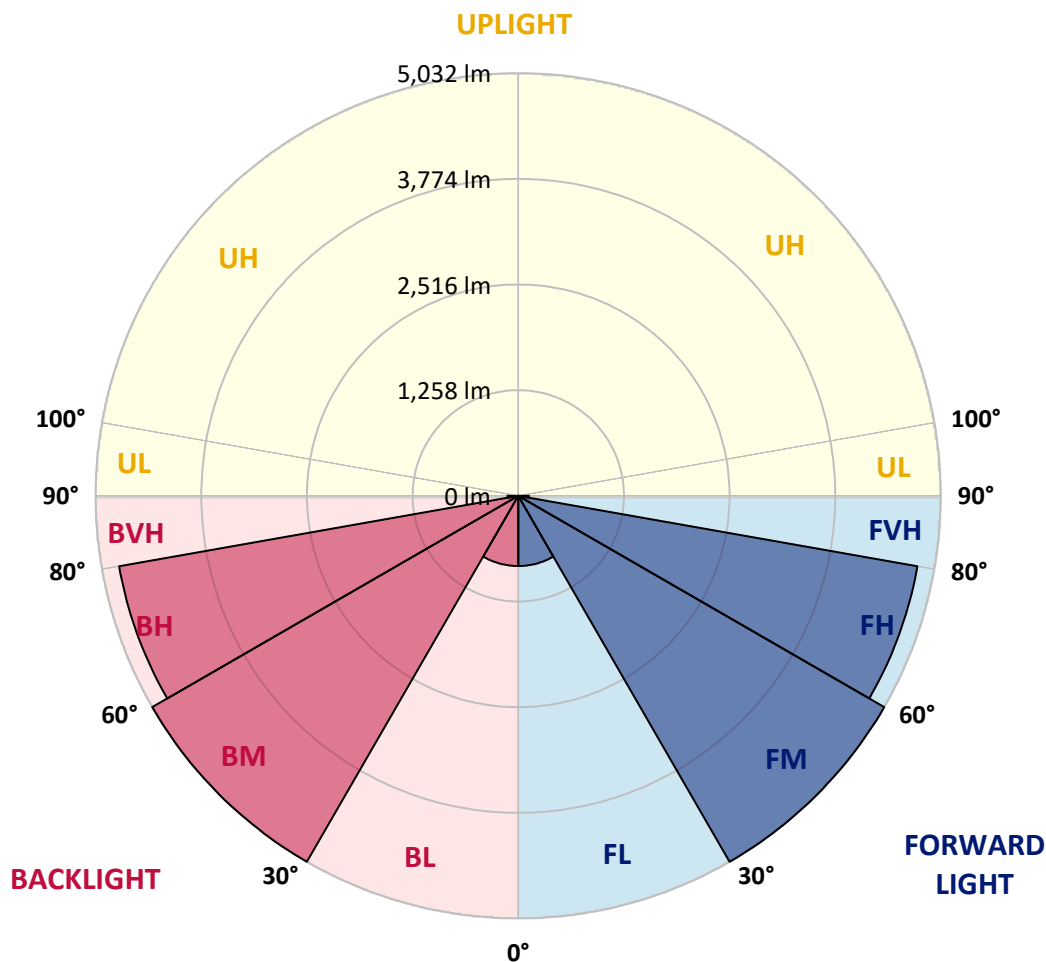
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.7	3.9			
FM	(30°-60°)	5032.3	23.3			
FH	(60°-80°)	4826.5	22.3			G2/5000
FVH	(80°-90°)	127.0	0.6			G2/225
BL	(0°-30°)	835.7	3.9	B2/1000		
BM	(30°-60°)	5032.3	23.3	B4/8500		
BH	(60°-80°)	4826.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	127.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1528.8	1528.8	1524.8	1524.8	1516.8	1512.7	1508.7	1508.7	1504.7	1504.7	1500.7
5°	1536.9	1536.9	1536.9	1532.9	1528.8	1524.8	1516.8	1508.7	1504.7	1500.7	1496.7
7.5°	1540.9	1540.9	1536.9	1536.9	1532.9	1528.8	1516.8	1504.7	1500.7	1496.7	1496.7
10°	1573.1	1569.1	1565.0	1557.0	1557.0	1557.0	1540.9	1528.8	1524.8	1524.8	1524.8
12.5°	1649.5	1645.5	1637.5	1625.4	1625.4	1629.4	1605.3	1589.2	1589.2	1585.2	1585.2
15°	1762.2	1758.2	1750.1	1730.0	1726.0	1734.0	1697.8	1681.7	1681.7	1681.7	1677.7
17.5°	1886.9	1878.9	1866.8	1850.7	1850.7	1850.7	1814.5	1794.4	1782.3	1782.3	1778.3
20°	1991.5	1987.5	1987.5	1983.5	1995.5	1995.5	1947.3	1915.1	1886.9	1870.8	1866.8
22.5°	2084.0	2080.0	2088.1	2104.2	2128.3	2136.3	2080.0	2031.7	1987.5	1955.3	1947.3
25°	2208.8	2204.7	2200.7	2224.9	2265.1	2277.2	2216.8	2156.5	2112.2	2096.1	2088.1
27.5°	2341.5	2345.6	2349.6	2373.7	2405.9	2426.0	2365.7	2309.3	2273.1	2249.0	2241.0
30°	2490.4	2498.4	2510.5	2546.7	2570.9	2578.9	2526.6	2486.4	2454.2	2434.1	2422.0
32.5°	2679.5	2695.6	2711.7	2743.9	2755.9	2747.9	2723.7	2695.6	2671.4	2643.3	2639.3
35°	2961.1	2977.2	2973.2	2985.3	2989.3	2981.2	2969.2	2953.1	2941.0	2904.8	2900.8
37.5°	3315.2	3331.3	3307.1	3295.0	3266.9	3270.9	3266.9	3279.0	3283.0	3246.8	3242.7
40°	3673.2	3689.3	3657.1	3625.0	3596.8	3584.7	3604.8	3645.1	3645.1	3620.9	3620.9
42.5°	4055.4	4067.5	4015.2	3975.0	3938.8	3930.7	3942.8	3991.1	4003.1	3999.1	3999.1
45°	4437.7	4429.6	4361.2	4321.0	4288.8	4268.7	4272.7	4308.9	4333.0	4345.1	4345.1
47.5°	4731.3	4719.3	4663.0	4630.8	4610.7	4582.5	4582.5	4602.6	4614.7	4618.7	4618.7
50°	4964.7	4952.6	4896.3	4892.3	4892.3	4880.2	4868.1	4864.1	4856.1	4860.1	4860.1
52.5°	5165.9	5149.8	5109.5	5117.6	5153.8	5161.8	5145.7	5113.6	5081.4	5069.3	5073.3
55°	5383.1	5359.0	5326.8	5350.9	5423.4	5455.5	5431.4	5367.0	5310.7	5274.5	5274.5
57.5°	5556.1	5528.0	5528.0	5596.4	5729.1	5793.5	5741.2	5620.5	5523.9	5483.7	5487.7
60°	5435.4	5411.3	5507.8	5809.6	6059.0	6167.7	6079.1	5865.9	5709.0	5660.7	5668.8
62.5°	5198.0	5182.0	5302.7	5769.4	6356.7	6582.0	6449.3	6143.5	5910.2	5853.8	5853.8
65°	4848.0	4844.0	5013.0	5588.3	6425.1	6980.4	6867.7	6445.3	6143.5	6067.1	6083.2
67.5°	4485.9	4485.9	4638.8	5278.5	6344.7	7149.3	7237.8	6718.8	6256.2	6067.1	6071.1
70°	3846.2	3914.6	4321.0	4992.9	6051.0	7028.6	7390.7	6525.7	5765.3	5431.4	5419.3
72.5°	2534.7	2623.2	3431.8	4494.0	5761.3	6590.1	6670.6	5733.1	4787.7	4397.4	4377.3
75°	1528.8	1605.3	2224.9	3508.3	5065.3	5306.7	4952.6	4494.0	3576.7	3270.9	3270.9
77.5°	450.6	502.9	1025.9	2224.9	3504.3	3488.2	3053.7	2647.3	2116.2	1798.4	1822.5
80°	265.5	273.6	333.9	1013.9	1452.4	1528.8	1178.8	736.3	736.3	547.2	531.1
82.5°	205.2	205.2	213.2	253.5	350.0	390.3	297.7	253.5	289.7	245.4	233.3
85°	144.8	144.8	144.8	148.9	152.9	156.9	165.0	169.0	185.1	152.9	144.8
87.5°	44.3	48.3	52.3	60.3	72.4	76.4	80.5	72.4	72.4	68.4	64.4
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)