

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: P841018

Luminaire Tested: **ARCH4-120-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841018
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: ARCH4-120-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20161 lumens
Efficiency: N/A
Efficacy: 165.3 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): 122
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



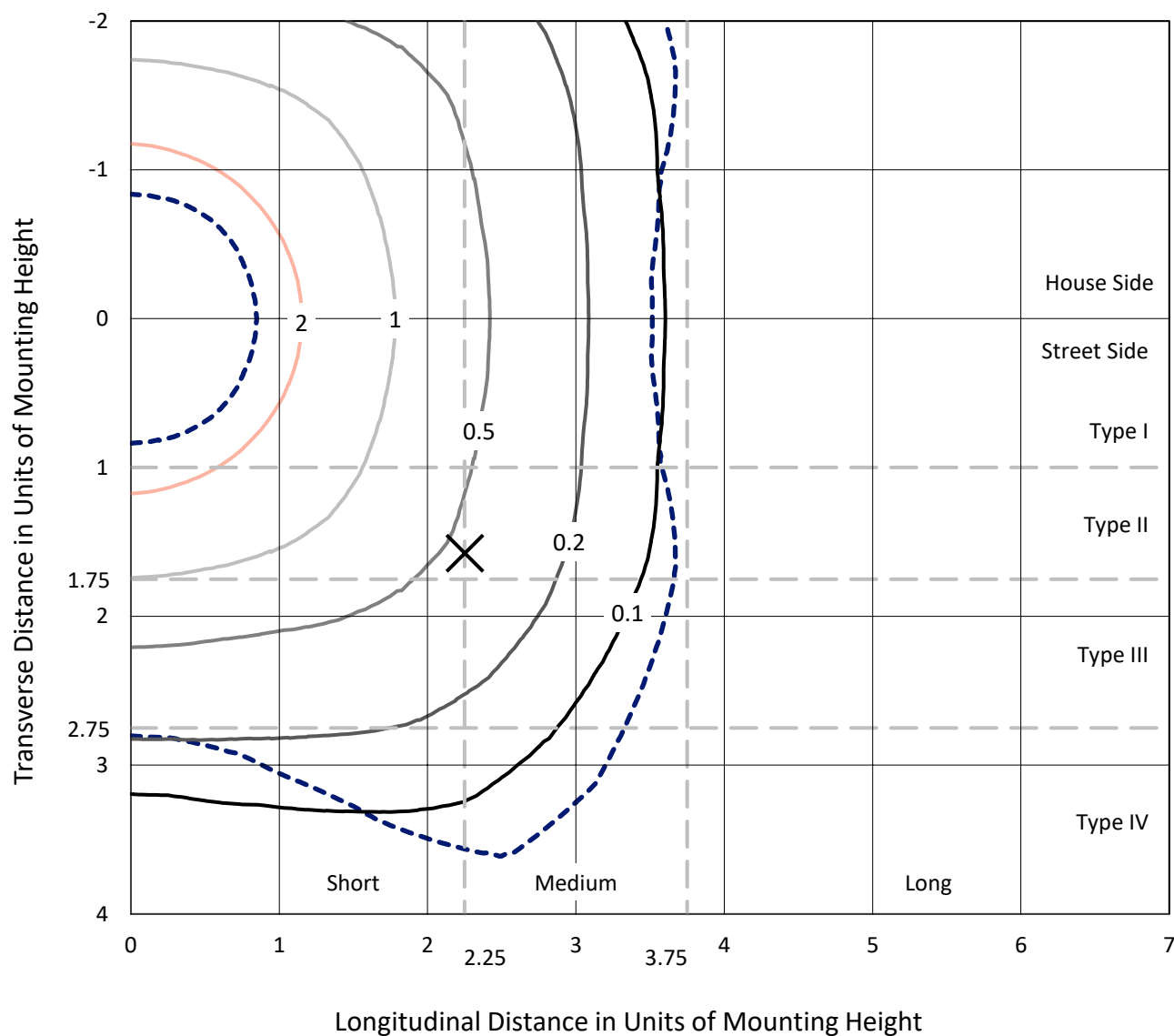
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

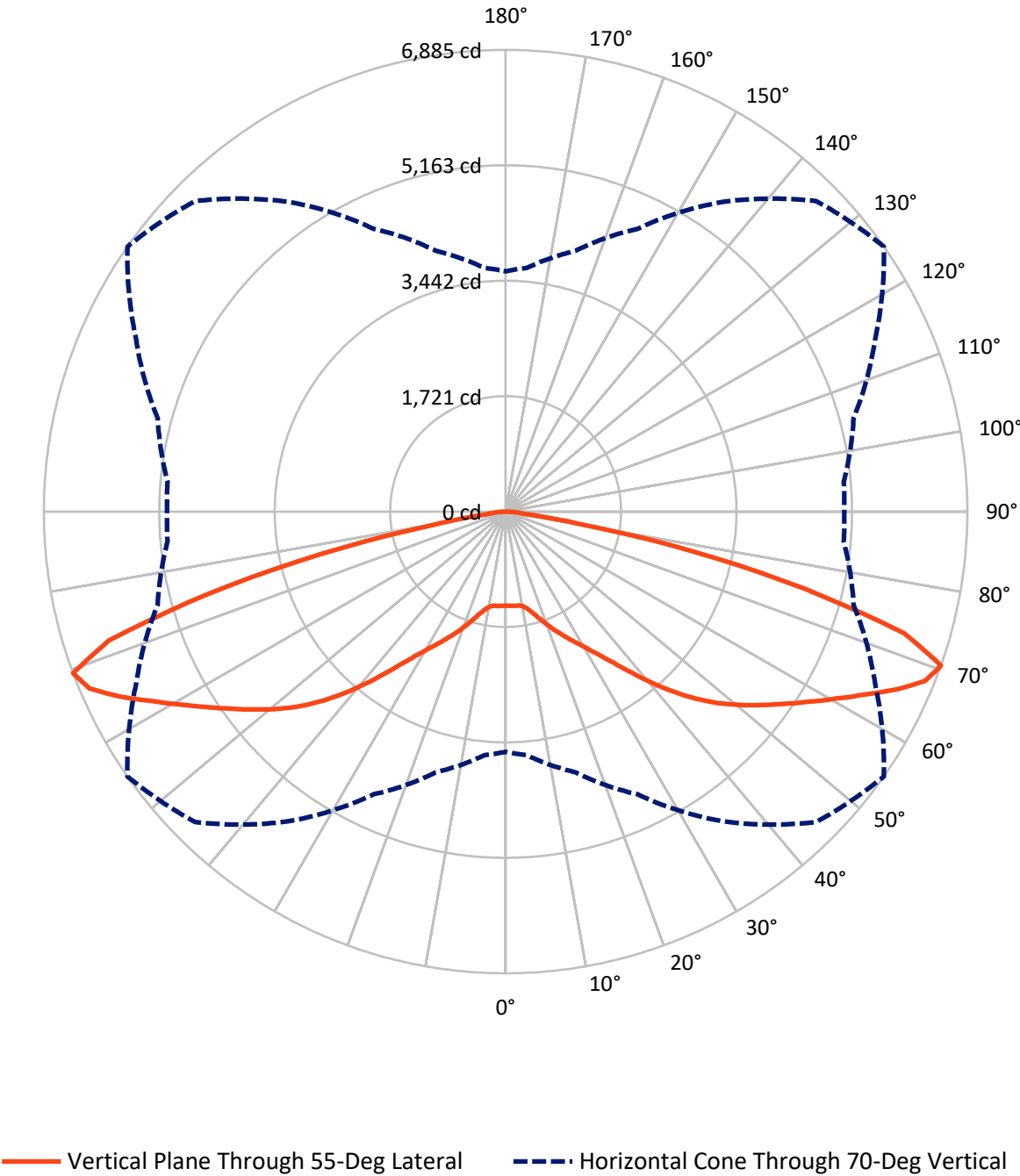
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	10080.5	0.0	10080.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10080.5	0.0	10080.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20161.0	0.0	20161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	0.7
10°-20°	461.8	2.3
20°-30°	959.5	4.8
30°-40°	1772.1	8.8
40°-50°	3113.2	15.4
50°-60°	4490.0	22.3
60°-70°	5495.3	27.3
70°-80°	3496.8	17.3
80°-90°	236.6	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°	20161.0	100.0
0°-180°	20161.0	100.0

Coefficient of Utilization



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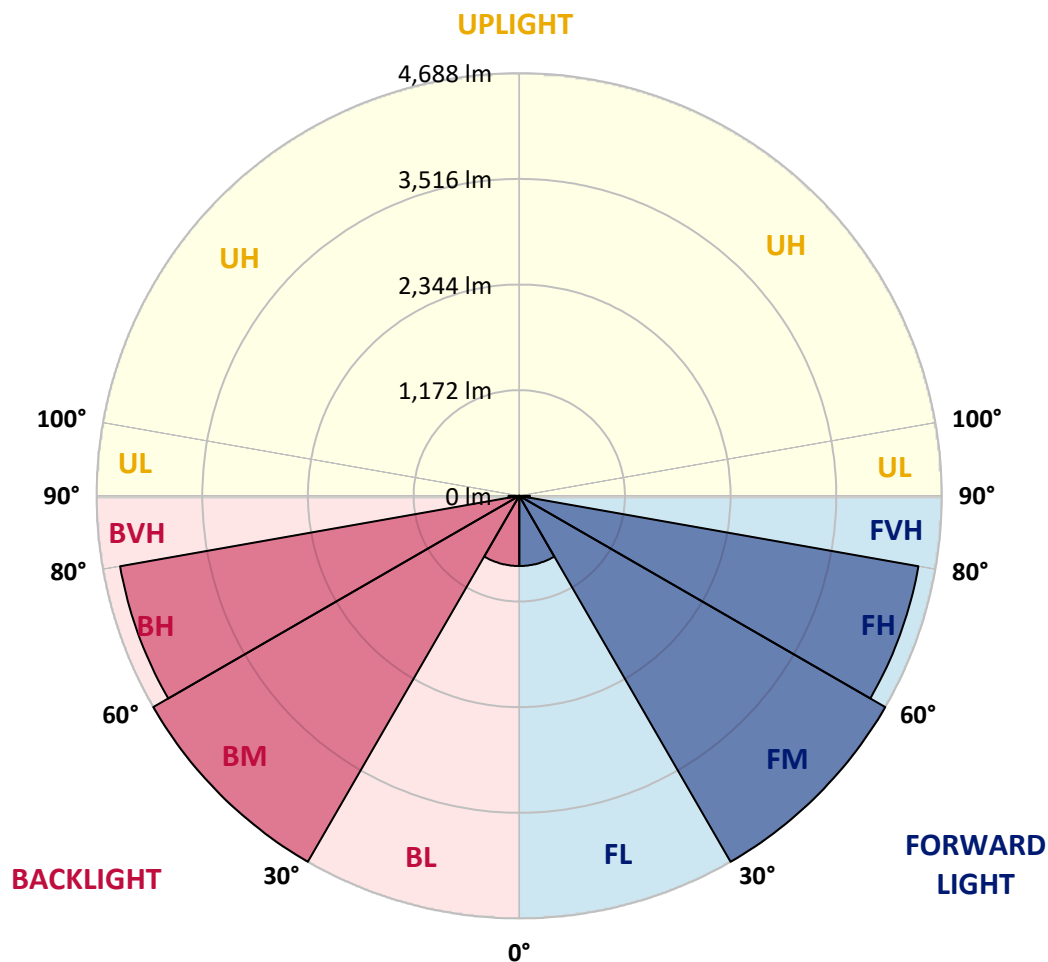
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.5	3.9			
FM	(30°-60°)	4687.7	23.3			
FH	(60°-80°)	4496.0	22.3			G2/5000
FVH	(80°-90°)	118.3	0.6			G2/225
BL	(0°-30°)	778.5	3.9	B2/1000		
BM	(30°-60°)	4687.7	23.3	B3/5000		
BH	(60°-80°)	4496.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	118.3	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°	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4
2.5°	1424.2	1424.2	1420.4	1420.4	1412.9	1409.2	1405.4	1405.4	1401.7	1401.7	1397.9
5°	1431.6	1431.6	1431.6	1427.9	1424.2	1420.4	1412.9	1405.4	1401.7	1397.9	1394.2
7.5°	1435.4	1435.4	1431.6	1431.6	1427.9	1424.2	1412.9	1401.7	1397.9	1394.2	1394.2
10°	1465.4	1461.6	1457.9	1450.4	1450.4	1450.4	1435.4	1424.2	1420.4	1420.4	1420.4
12.5°	1536.6	1532.8	1525.3	1514.1	1514.1	1517.8	1495.4	1480.4	1480.4	1476.6	1476.6
15°	1641.5	1637.8	1630.3	1611.5	1607.8	1615.3	1581.6	1566.6	1566.6	1566.6	1562.8
17.5°	1757.7	1750.2	1739.0	1724.0	1724.0	1724.0	1690.2	1671.5	1660.3	1660.3	1656.5
20°	1855.1	1851.4	1851.4	1847.6	1858.9	1858.9	1813.9	1783.9	1757.7	1742.7	1739.0
22.5°	1941.3	1937.6	1945.1	1960.1	1982.6	1990.1	1937.6	1892.6	1851.4	1821.4	1813.9
25°	2057.5	2053.8	2050.0	2072.5	2110.0	2121.2	2065.0	2008.8	1967.6	1952.6	1945.1
27.5°	2181.2	2184.9	2188.7	2211.2	2241.2	2259.9	2203.7	2151.2	2117.5	2095.0	2087.5
30°	2319.9	2327.4	2338.6	2372.3	2394.8	2402.3	2353.6	2316.1	2286.1	2267.4	2256.2
32.5°	2496.0	2511.0	2526.0	2556.0	2567.2	2559.7	2537.2	2511.0	2488.5	2462.3	2458.5
35°	2758.4	2773.3	2769.6	2780.8	2784.6	2777.1	2765.9	2750.9	2739.6	2705.9	2702.1
37.5°	3088.2	3103.1	3080.7	3069.4	3043.2	3046.9	3043.2	3054.4	3058.2	3024.4	3020.7
40°	3421.7	3436.7	3406.7	3376.7	3350.5	3339.3	3358.0	3395.5	3395.5	3373.0	3373.0
42.5°	3777.7	3789.0	3740.3	3702.8	3669.1	3661.6	3672.8	3717.8	3729.0	3725.3	3725.3
45°	4133.8	4126.3	4062.6	4025.1	3995.1	3976.4	3980.1	4013.9	4036.3	4047.6	4047.6
47.5°	4407.4	4396.1	4343.7	4313.7	4294.9	4268.7	4268.7	4287.4	4298.7	4302.4	4302.4
50°	4624.7	4613.5	4561.0	4557.3	4557.3	4546.0	4534.8	4531.0	4523.6	4527.3	4527.3
52.5°	4812.1	4797.1	4759.7	4767.2	4800.9	4808.4	4793.4	4763.4	4733.4	4722.2	4725.9
55°	5014.5	4992.0	4962.0	4984.5	5052.0	5082.0	5059.5	4999.5	4947.0	4913.3	4913.3
57.5°	5175.7	5149.4	5149.4	5213.1	5336.8	5396.8	5348.1	5235.6	5145.7	5108.2	5112.0
60°	5063.2	5040.7	5130.7	5411.8	5644.1	5745.3	5662.9	5464.2	5318.1	5273.1	5280.6
62.5°	4842.1	4827.1	4939.6	5374.3	5921.5	6131.3	6007.7	5722.8	5505.5	5453.0	5453.0
65°	4516.1	4512.3	4669.7	5205.6	5985.2	6502.4	6397.4	6003.9	5722.8	5651.6	5666.6
67.5°	4178.8	4178.8	4321.2	4917.1	5910.2	6659.8	6742.2	6258.8	5827.8	5651.6	5655.4
70°	3582.9	3646.6	4025.1	4651.0	5636.6	6547.3	6884.6	6078.9	5370.5	5059.5	5048.2
72.5°	2361.1	2443.5	3196.8	4186.3	5366.8	6138.8	6213.8	5340.6	4459.8	4096.3	4077.6
75°	1424.2	1495.4	2072.5	3268.1	4718.4	4943.3	4613.5	4186.3	3331.8	3046.9	3046.9
77.5°	419.7	468.5	955.7	2072.5	3264.3	3249.3	2844.6	2466.0	1971.3	1675.3	1697.7
80°	247.4	254.8	311.1	944.4	1352.9	1424.2	1098.1	685.8	685.8	509.7	494.7
82.5°	191.1	191.1	198.6	236.1	326.1	363.5	277.3	236.1	269.8	228.6	217.4
85°	134.9	134.9	134.9	138.7	142.4	146.2	153.7	157.4	172.4	142.4	134.9
87.5°	41.2	45.0	48.7	56.2	67.5	71.2	75.0	67.5	67.5	63.7	60.0
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)