

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: P840892

Luminaire Tested: **ARCH4-100-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840892
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: ARCH4-100-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18119 lumens
Efficiency: N/A
Efficacy: 175.7 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): 103.1
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

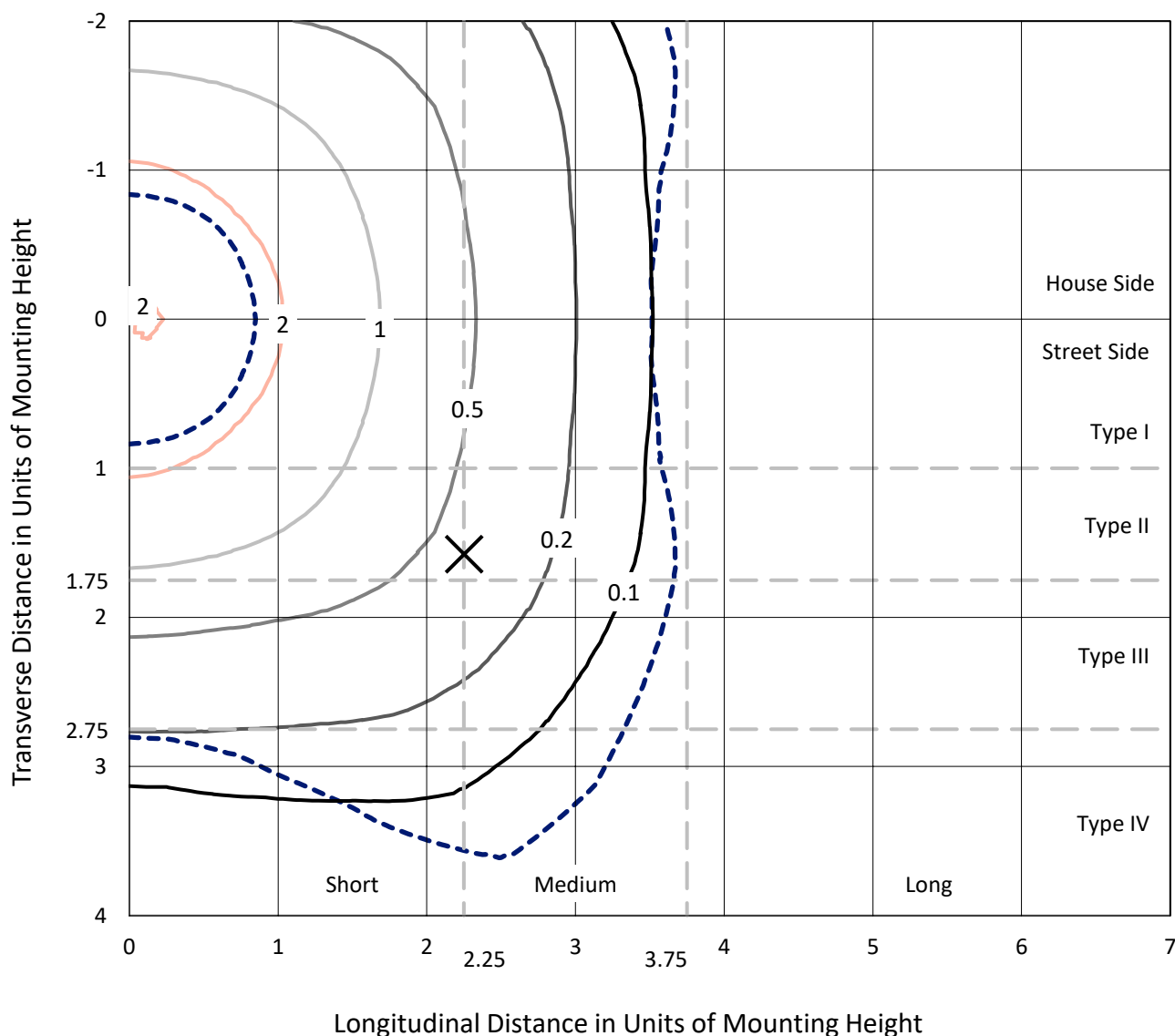


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Iso-Footcandle Lines of Horizontal Illumination

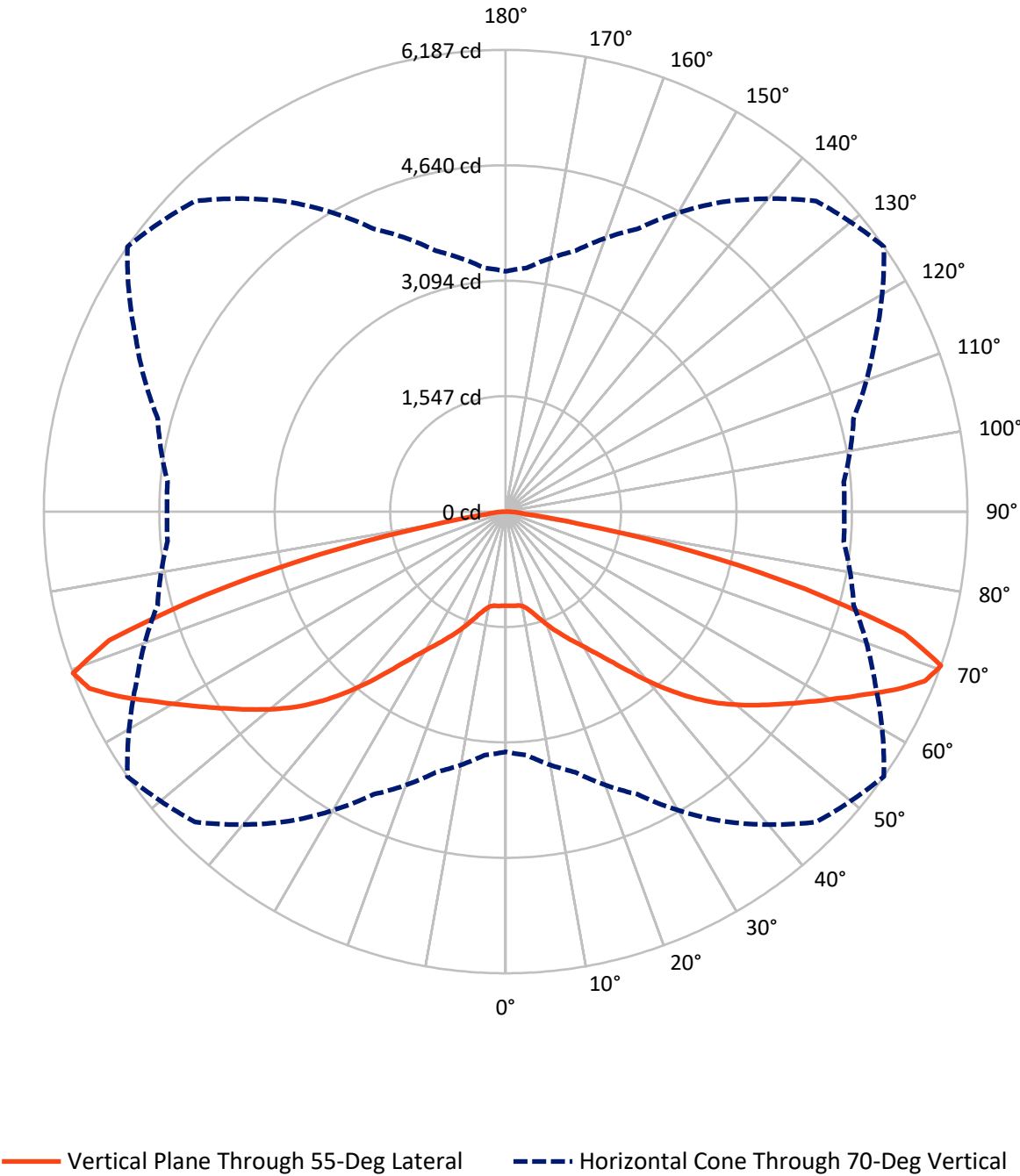
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	9059.5	0.0	9059.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9059.5	0.0	9059.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18119.0	0.0	18119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	0.7
10°-20°	415.0	2.3
20°-30°	862.3	4.8
30°-40°	1592.6	8.8
40°-50°	2797.9	15.4
50°-60°	4035.3	22.3
60°-70°	4938.7	27.3
70°-80°	3142.6	17.3
80°-90°	212.6	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°	18119.0	100.0
0°-180°	18119.0	100.0

Coefficient of Utilization



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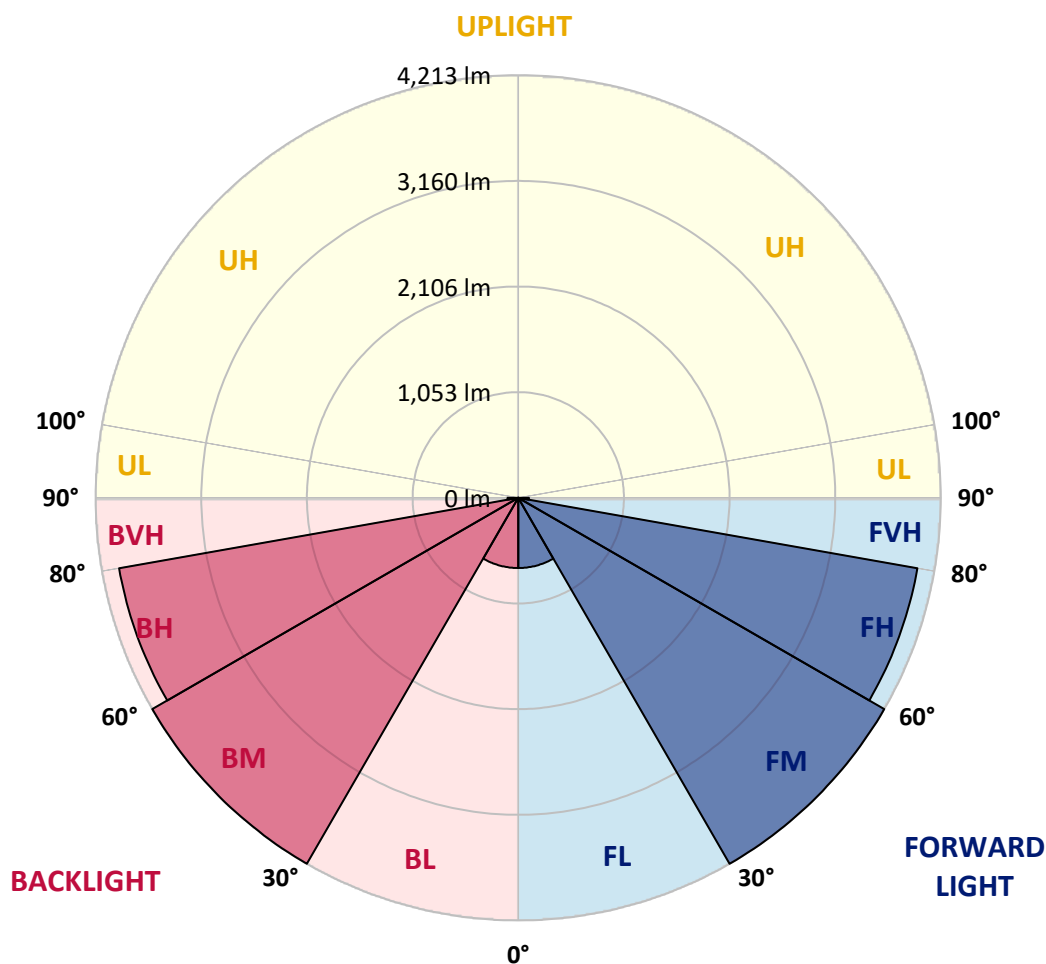
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.6	3.9			
FM	(30°-60°)	4212.9	23.3			
FH	(60°-80°)	4040.7	22.3			G2/5000
FVH	(80°-90°)	106.3	0.6			G2/225
BL	(0°-30°)	699.6	3.9	B2/1000		
BM	(30°-60°)	4212.9	23.3	B3/5000		
BH	(60°-80°)	4040.7	22.3	B4/5000		G2/5000
BVH	(80°-90°)	106.3	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°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1279.9	1279.9	1276.5	1276.5	1269.8	1266.4	1263.1	1263.1	1259.7	1259.7	1256.3
5°	1286.6	1286.6	1286.6	1283.3	1279.9	1276.5	1269.8	1263.1	1259.7	1256.3	1253.0
7.5°	1290.0	1290.0	1286.6	1286.6	1283.3	1279.9	1269.8	1259.7	1256.3	1253.0	1253.0
10°	1317.0	1313.6	1310.2	1303.5	1303.5	1303.5	1290.0	1279.9	1276.5	1276.5	1276.5
12.5°	1381.0	1377.6	1370.8	1360.7	1360.7	1364.1	1343.9	1330.4	1330.4	1327.1	1327.1
15°	1475.3	1471.9	1465.2	1448.3	1444.9	1451.7	1421.4	1407.9	1407.9	1407.9	1404.5
17.5°	1579.7	1572.9	1562.8	1549.4	1549.4	1549.4	1519.0	1502.2	1492.1	1492.1	1488.7
20°	1667.2	1663.9	1663.9	1660.5	1670.6	1670.6	1630.2	1603.3	1579.7	1566.2	1562.8
22.5°	1744.7	1741.3	1748.1	1761.6	1781.8	1788.5	1741.3	1700.9	1663.9	1636.9	1630.2
25°	1849.1	1845.8	1842.4	1862.6	1896.3	1906.4	1855.9	1805.3	1768.3	1754.8	1748.1
27.5°	1960.3	1963.6	1967.0	1987.2	2014.2	2031.0	1980.5	1933.3	1903.0	1882.8	1876.1
30°	2084.9	2091.6	2101.7	2132.1	2152.3	2159.0	2115.2	2081.5	2054.6	2037.7	2027.6
32.5°	2243.2	2256.7	2270.1	2297.1	2307.2	2300.5	2280.3	2256.7	2236.5	2212.9	2209.5
35°	2479.0	2492.4	2489.1	2499.2	2502.6	2495.8	2485.7	2472.2	2462.1	2431.8	2428.5
37.5°	2775.4	2788.8	2768.6	2758.5	2735.0	2738.3	2735.0	2745.1	2748.4	2718.1	2714.7
40°	3075.1	3088.6	3061.7	3034.7	3011.1	3001.0	3017.9	3051.6	3051.6	3031.4	3031.4
42.5°	3395.1	3405.2	3361.4	3327.8	3297.4	3290.7	3300.8	3341.2	3351.3	3348.0	3348.0
45°	3715.1	3708.4	3651.1	3617.4	3590.5	3573.6	3577.0	3607.3	3627.5	3637.6	3637.6
47.5°	3961.0	3950.9	3903.7	3876.8	3859.9	3836.4	3836.4	3853.2	3863.3	3866.7	3866.7
50°	4156.3	4146.2	4099.1	4095.7	4095.7	4085.6	4075.5	4072.1	4065.4	4068.8	4068.8
52.5°	4324.7	4311.3	4277.6	4284.3	4314.6	4321.4	4307.9	4280.9	4254.0	4243.9	4247.3
55°	4506.6	4486.4	4459.5	4479.7	4540.3	4567.2	4547.0	4493.1	4446.0	4415.7	4415.7
57.5°	4651.4	4627.9	4627.9	4685.1	4796.3	4850.2	4806.4	4705.3	4624.5	4590.8	4594.2
60°	4550.4	4530.2	4611.0	4863.6	5072.5	5163.4	5089.3	4910.8	4779.4	4739.0	4745.8
62.5°	4351.7	4338.2	4439.3	4830.0	5321.7	5510.3	5399.2	5143.2	4947.8	4900.7	4900.7
65°	4058.6	4055.3	4196.7	4678.4	5379.0	5843.8	5749.5	5395.8	5143.2	5079.2	5092.7
67.5°	3755.5	3755.5	3883.5	4419.0	5311.6	5985.2	6059.3	5624.9	5237.5	5079.2	5082.6
70°	3220.0	3277.2	3617.4	4179.9	5065.7	5884.2	6187.3	5463.2	4826.6	4547.0	4536.9
72.5°	2121.9	2196.0	2873.1	3762.3	4823.2	5517.1	5584.4	4799.6	4008.1	3681.4	3664.6
75°	1279.9	1343.9	1862.6	2937.0	4240.5	4442.6	4146.2	3762.3	2994.3	2738.3	2738.3
77.5°	377.2	421.0	858.9	1862.6	2933.7	2920.2	2556.4	2216.3	1771.7	1505.6	1525.8
80°	222.3	229.0	279.6	848.8	1215.9	1279.9	986.9	616.4	616.4	458.1	444.6
82.5°	171.8	171.8	178.5	212.2	293.0	326.7	249.2	212.2	242.5	205.5	195.4
85°	121.3	121.3	121.3	124.6	128.0	131.4	138.1	141.5	154.9	128.0	121.3
87.5°	37.0	40.4	43.8	50.5	60.6	64.0	67.4	60.6	60.6	57.3	53.9
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)