

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: P836233

Luminaire Tested: **ARCH3-160-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19188 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 161
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



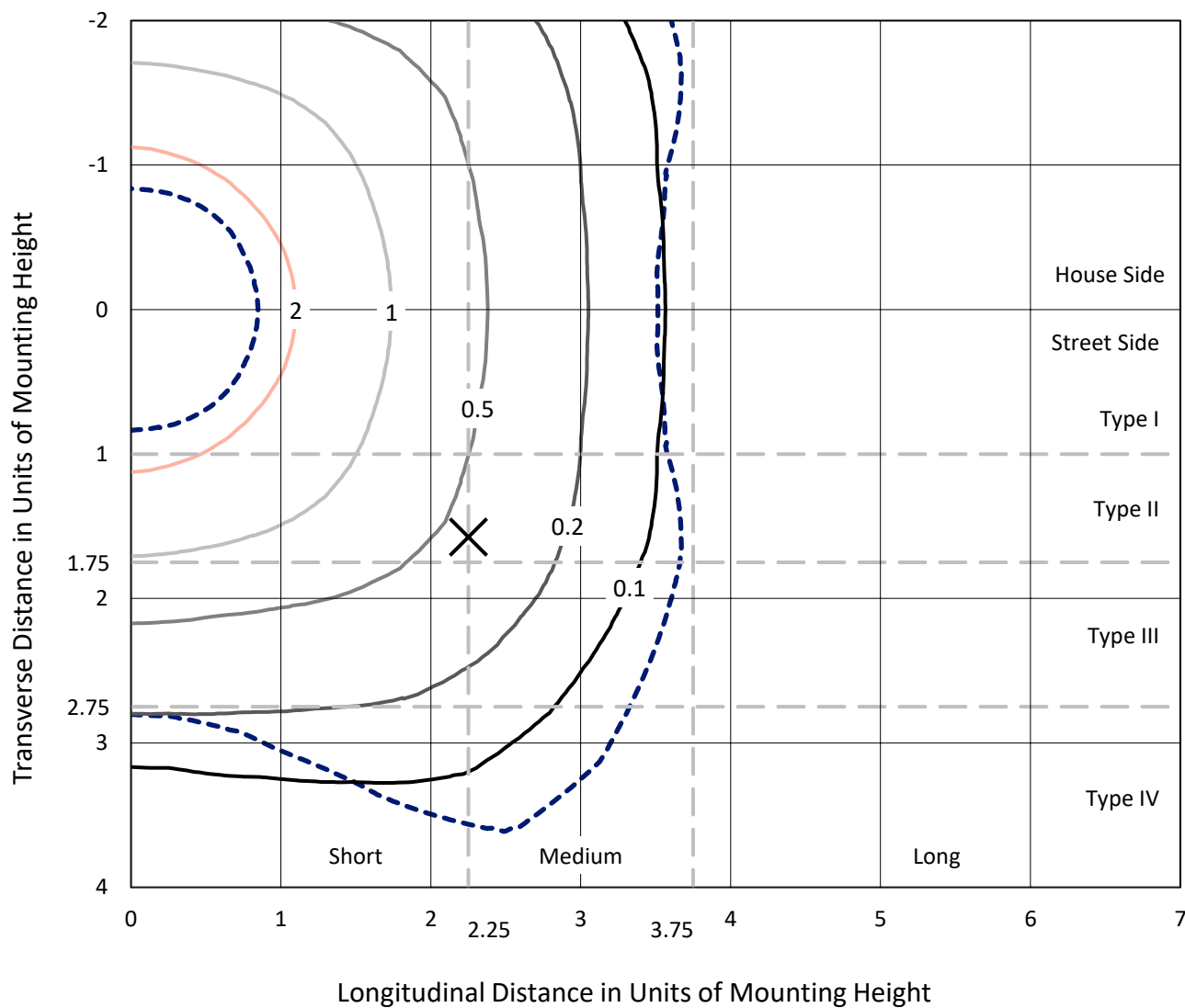
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Iso-Footcandle Lines of Horizontal Illumination

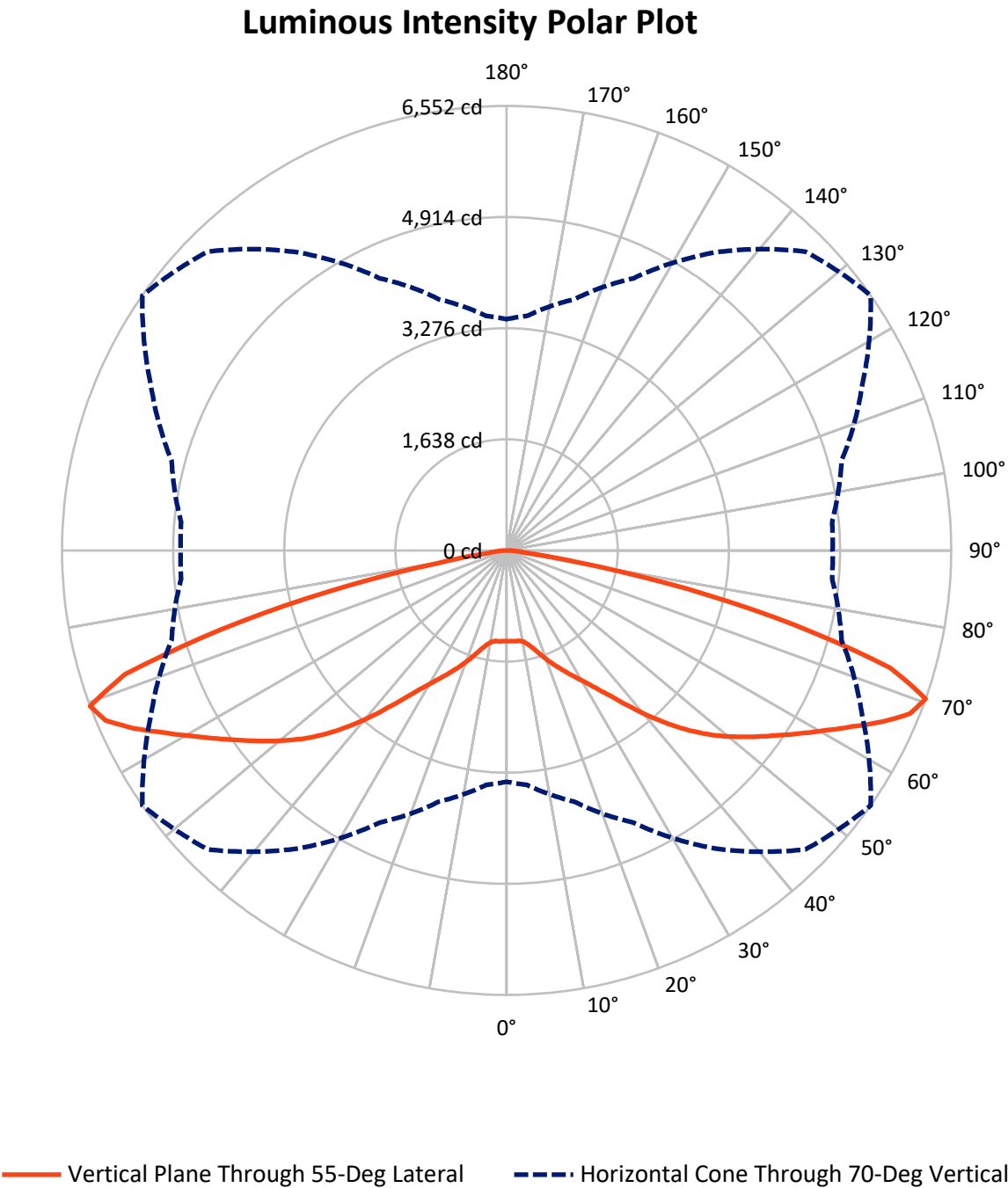
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Medium - N/A

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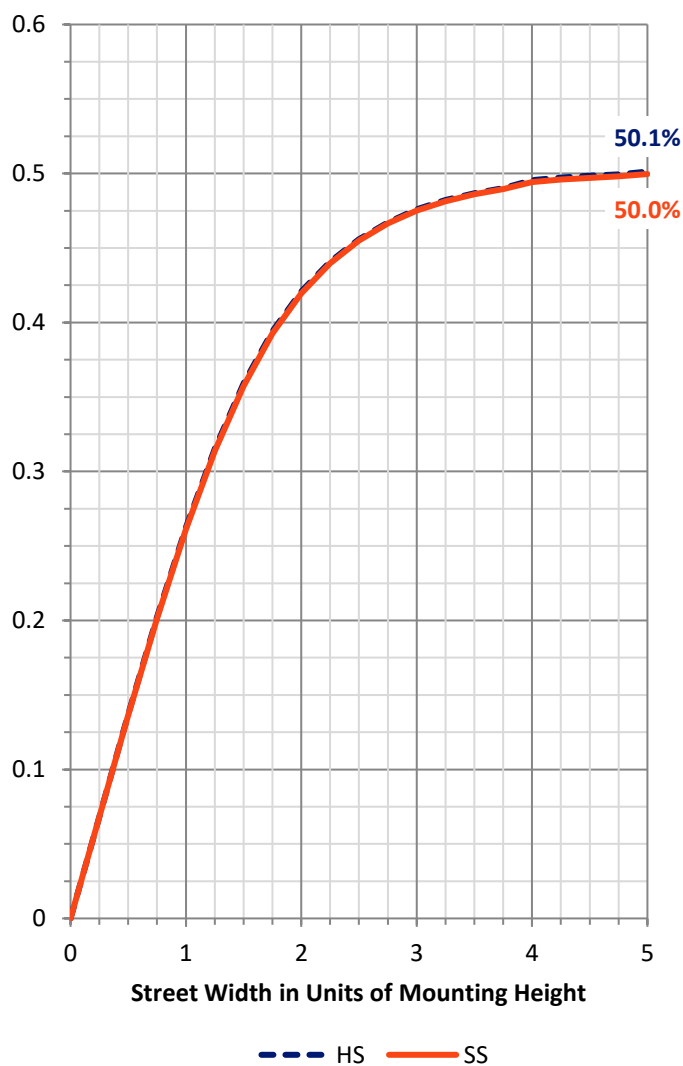
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9594.0	0.0	9594.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9594.0	0.0	9594.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19188.0	0.0	19188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	0.7
10°-20°	439.5	2.3
20°-30°	913.2	4.8
30°-40°	1686.6	8.8
40°-50°	2963.0	15.4
50°-60°	4273.3	22.3
60°-70°	5230.1	27.3
70°-80°	3328.0	17.3
80°-90°	225.2	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°	19188.0	100.0
0°-180°	19188.0	100.0

Coefficient of Utilization



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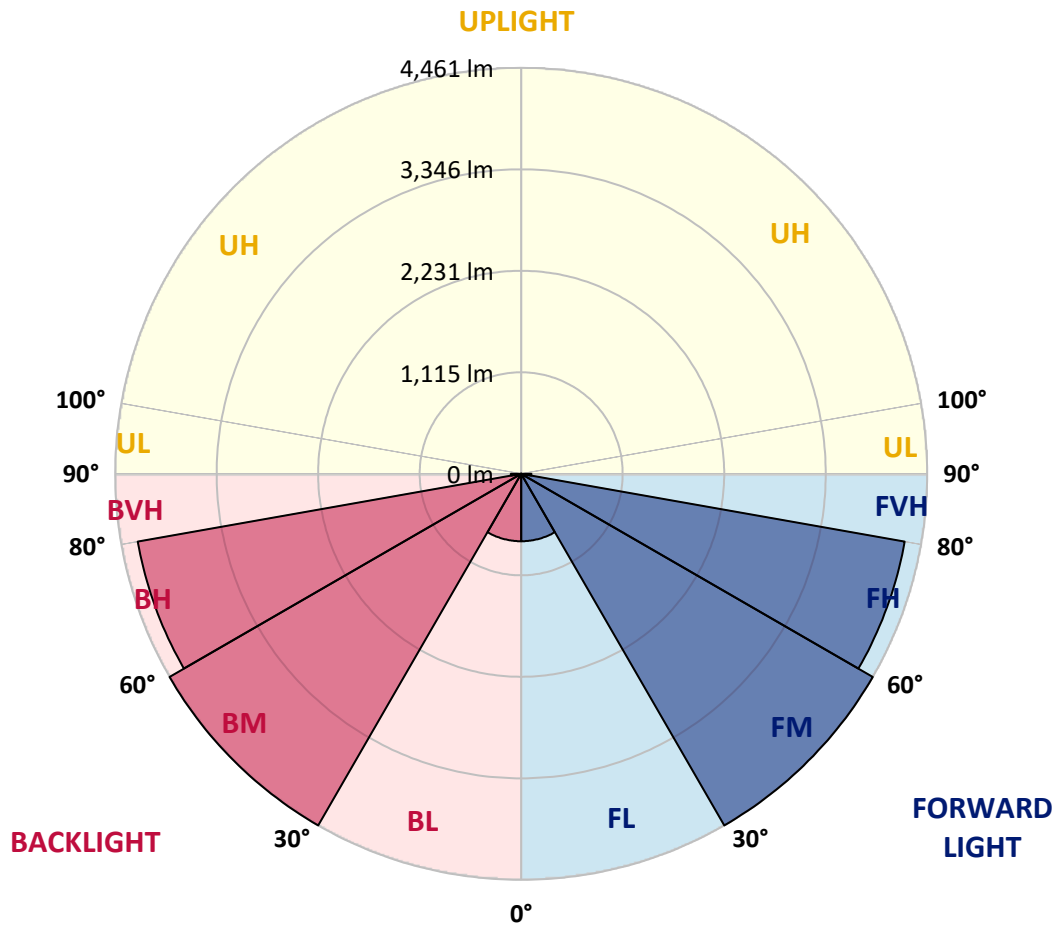
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.9	3.9			
FM	(30°-60°)	4461.5	23.3			
FH	(60°-80°)	4279.1	22.3			G2/5000
FVH	(80°-90°)	112.6	0.6			G2/225
BL	(0°-30°)	740.9	3.9	B2/1000		
BM	(30°-60°)	4461.5	23.3	B3/5000		
BH	(60°-80°)	4279.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	112.6	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°	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6	1337.6
2.5°	1355.4	1355.4	1351.9	1351.9	1344.7	1341.2	1337.6	1337.6	1334.0	1334.0	1330.5
5°	1362.6	1362.6	1362.6	1359.0	1355.4	1351.9	1344.7	1337.6	1334.0	1330.5	1326.9
7.5°	1366.1	1366.1	1362.6	1362.6	1359.0	1355.4	1344.7	1334.0	1330.5	1326.9	1326.9
10°	1394.7	1391.1	1387.5	1380.4	1380.4	1380.4	1366.1	1355.4	1351.9	1351.9	1351.9
12.5°	1462.4	1458.9	1451.7	1441.0	1441.0	1444.6	1423.2	1408.9	1408.9	1405.4	1405.4
15°	1562.3	1558.7	1551.6	1533.8	1530.2	1537.3	1505.2	1491.0	1491.0	1491.0	1487.4
17.5°	1672.9	1665.7	1655.0	1640.8	1640.8	1640.8	1608.7	1590.8	1580.1	1580.1	1576.6
20°	1765.6	1762.0	1762.0	1758.5	1769.2	1769.2	1726.4	1697.8	1672.9	1658.6	1655.0
22.5°	1847.7	1844.1	1851.2	1865.5	1886.9	1894.0	1844.1	1801.3	1762.0	1733.5	1726.4
25°	1958.2	1954.7	1951.1	1972.5	2008.2	2018.9	1965.4	1911.9	1872.6	1858.4	1851.2
27.5°	2075.9	2079.5	2083.1	2104.5	2133.0	2150.8	2097.3	2047.4	2015.3	1993.9	1986.8
30°	2207.9	2215.0	2225.7	2257.8	2279.2	2286.4	2240.0	2204.3	2175.8	2158.0	2147.3
32.5°	2375.6	2389.8	2404.1	2432.6	2443.3	2436.2	2414.8	2389.8	2368.4	2343.4	2339.9
35°	2625.2	2639.5	2635.9	2646.6	2650.2	2643.1	2632.4	2618.1	2607.4	2575.3	2571.7
37.5°	2939.1	2953.4	2932.0	2921.3	2896.3	2899.9	2896.3	2907.0	2910.6	2878.5	2874.9
40°	3256.6	3270.8	3242.3	3213.8	3188.8	3178.1	3195.9	3231.6	3231.6	3210.2	3210.2
42.5°	3595.4	3606.1	3559.8	3524.1	3492.0	3484.9	3495.6	3538.4	3549.1	3545.5	3545.5
45°	3934.3	3927.1	3866.5	3830.8	3802.3	3784.5	3788.0	3820.1	3841.5	3852.2	3852.2
47.5°	4194.7	4184.0	4134.0	4105.5	4087.7	4062.7	4062.7	4080.5	4091.2	4094.8	4094.8
50°	4401.5	4390.8	4340.9	4337.3	4337.3	4326.6	4315.9	4312.4	4305.2	4308.8	4308.8
52.5°	4579.9	4565.6	4530.0	4537.1	4569.2	4576.3	4562.1	4533.5	4505.0	4494.3	4497.9
55°	4772.5	4751.1	4722.6	4744.0	4808.2	4836.7	4815.3	4758.2	4708.3	4676.2	4676.2
57.5°	4925.9	4900.9	4900.9	4961.5	5079.3	5136.3	5090.0	4982.9	4897.3	4861.7	4865.2
60°	4818.9	4797.5	4883.1	5150.6	5371.7	5468.0	5389.6	5200.5	5061.4	5018.6	5025.8
62.5°	4608.4	4594.2	4701.2	5114.9	5635.7	5835.4	5717.7	5446.6	5239.8	5189.8	5189.8
65°	4298.1	4294.5	4444.3	4954.4	5696.3	6188.6	6088.7	5714.2	5446.6	5378.9	5393.1
67.5°	3977.1	3977.1	4112.6	4679.8	5625.0	6338.4	6416.8	5956.7	5546.5	5378.9	5382.4
70°	3409.9	3470.6	3830.8	4426.5	5364.6	6231.4	6552.4	5785.5	5111.4	4815.3	4804.6
72.5°	2247.1	2325.6	3042.6	3984.2	5107.8	5842.6	5913.9	5082.8	4244.6	3898.6	3880.8
75°	1355.4	1423.2	1972.5	3110.3	4490.7	4704.7	4390.8	3984.2	3171.0	2899.9	2899.9
77.5°	399.5	445.9	909.6	1972.5	3106.8	3092.5	2707.3	2347.0	1876.2	1594.4	1615.8
80°	235.4	242.5	296.1	898.9	1287.6	1355.4	1045.1	652.7	652.7	485.1	470.8
82.5°	181.9	181.9	189.0	224.7	310.3	346.0	264.0	224.7	256.8	217.6	206.9
85°	128.4	128.4	128.4	132.0	135.5	139.1	146.2	149.8	164.1	135.5	128.4
87.5°	39.2	42.8	46.4	53.5	64.2	67.8	71.3	64.2	64.2	60.6	57.1
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)