

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: P836098

Luminaire Tested: **ARCH3-140-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836098
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: ARCH3-140-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19435 lumens
Efficiency: N/A
Efficacy: 136.4 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): 142.5
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



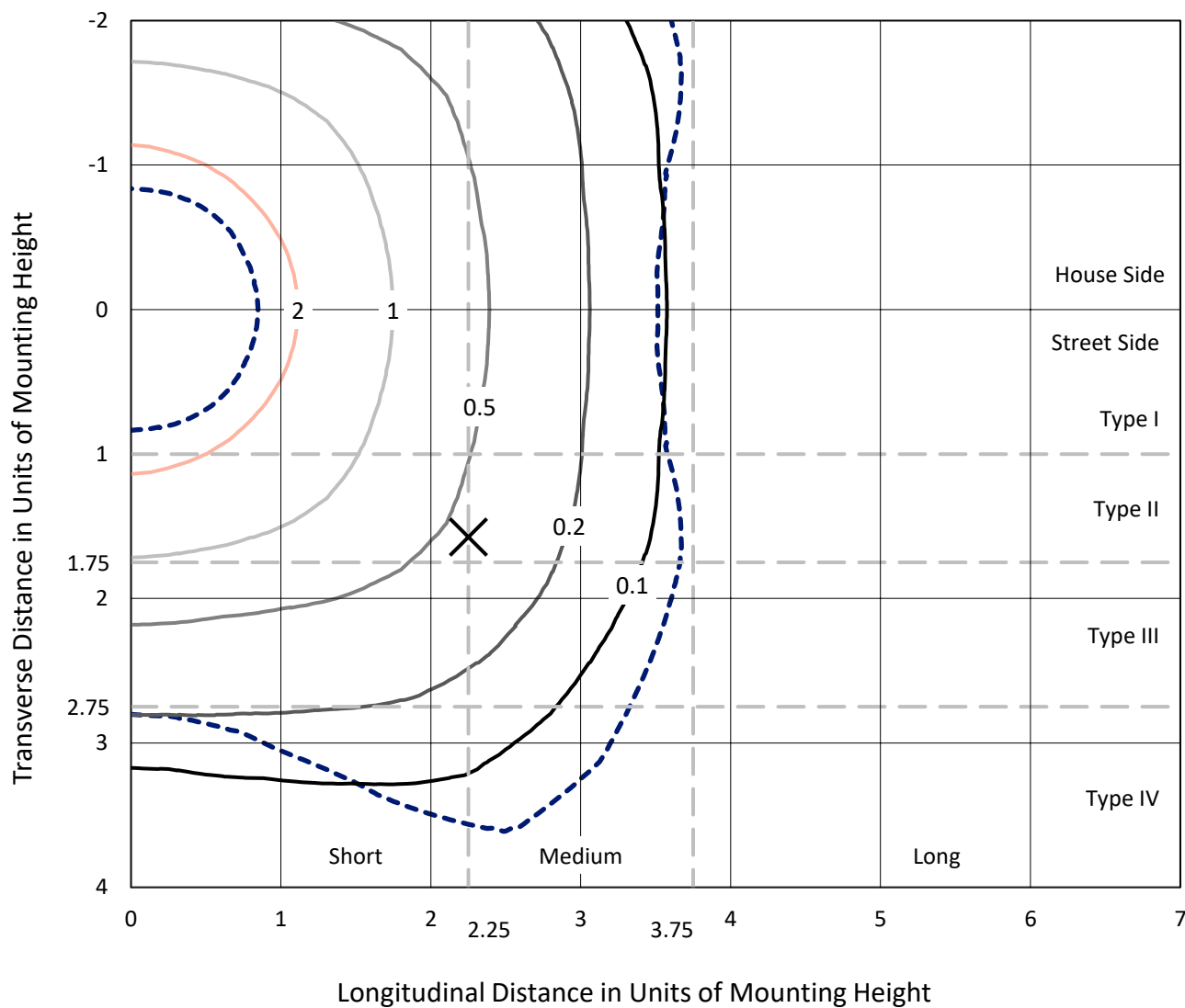
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

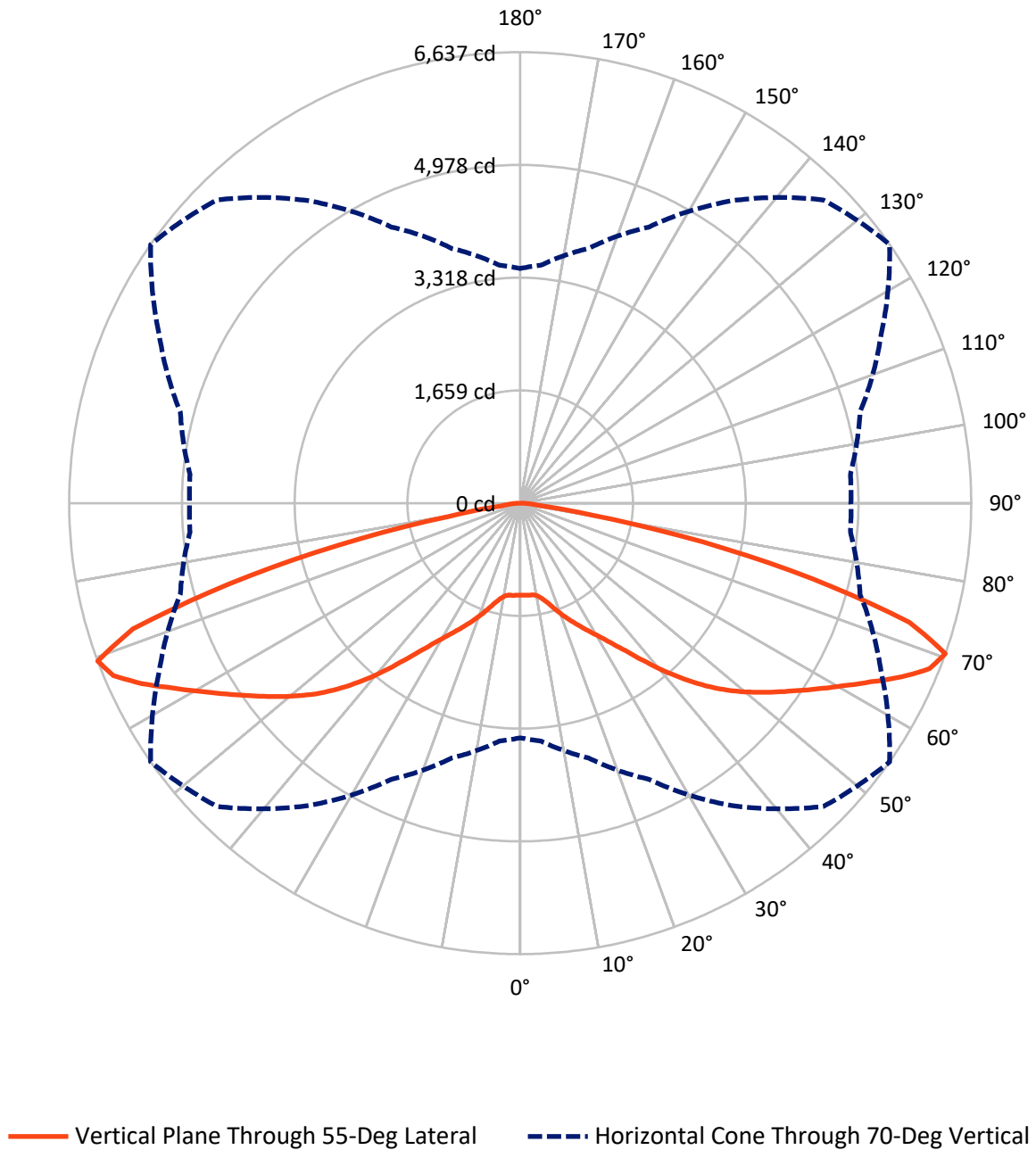


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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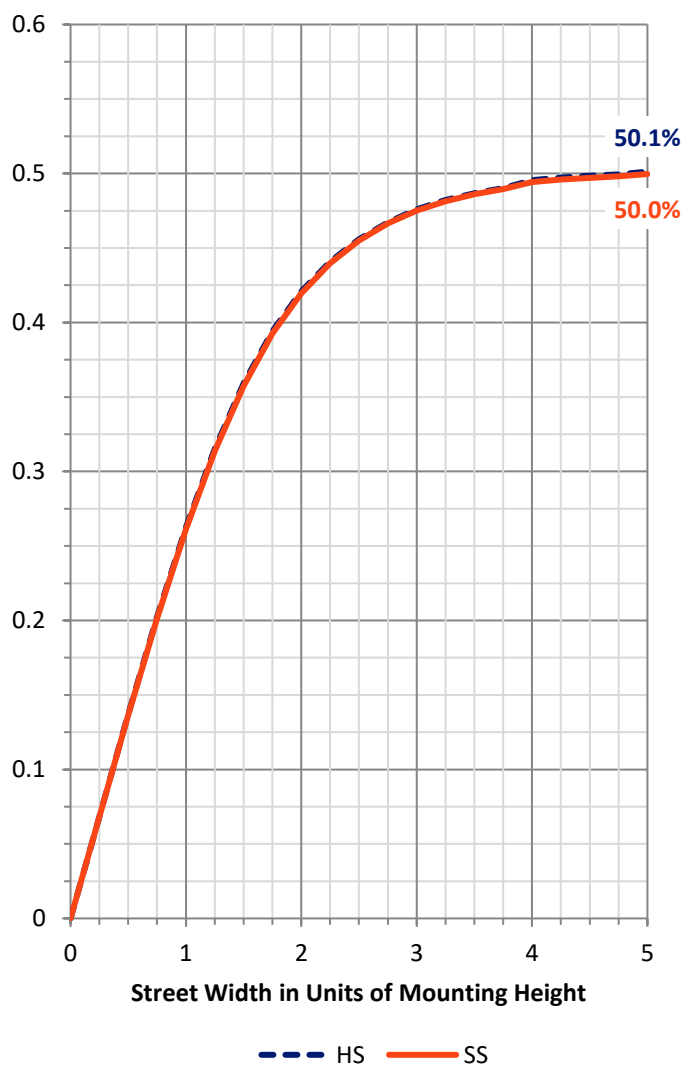
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9717.5	0.0	9717.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9717.5	0.0	9717.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19435.0	0.0	19435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	0.7
10°-20°	445.1	2.3
20°-30°	924.9	4.8
30°-40°	1708.3	8.8
40°-50°	3001.1	15.4
50°-60°	4328.3	22.3
60°-70°	5297.4	27.3
70°-80°	3370.9	17.3
80°-90°	228.1	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°	19435.0	100.0
0°-180°	19435.0	100.0

Coefficient of Utilization



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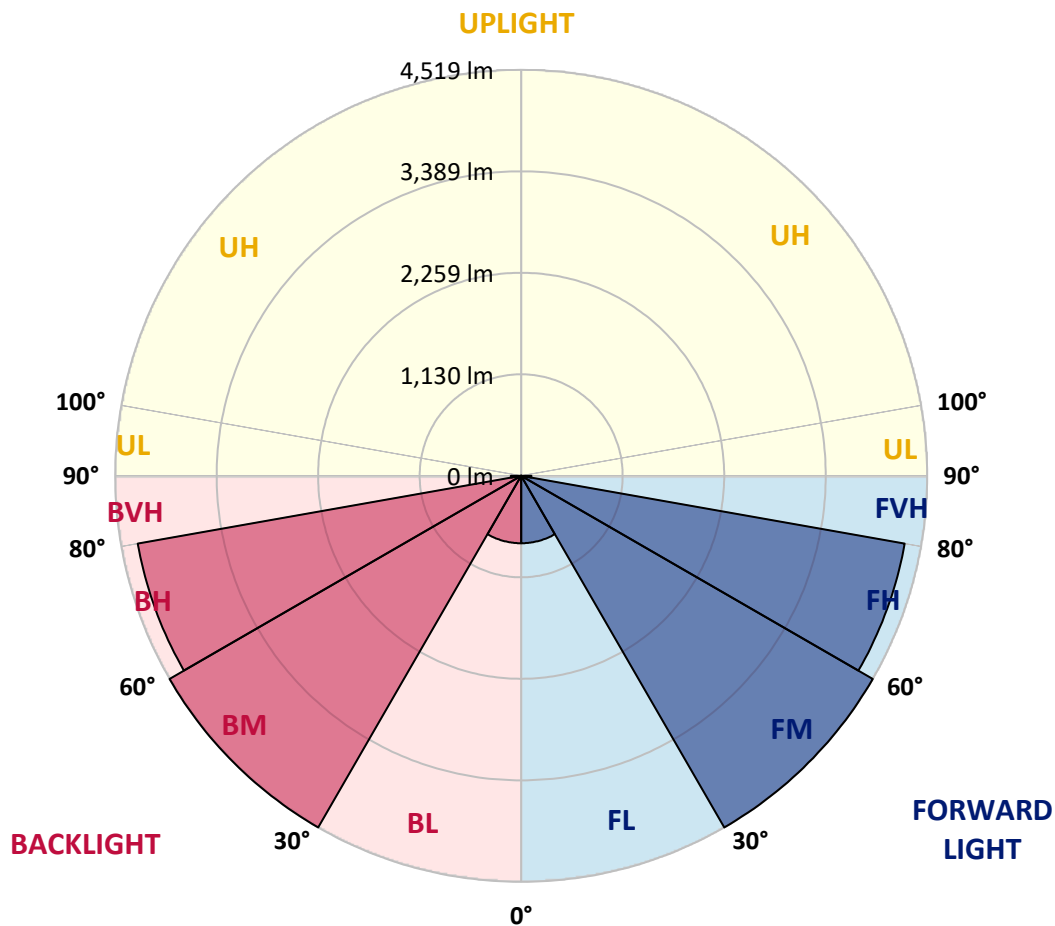
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.4	3.9			
FM	(30°-60°)	4518.9	23.3			
FH	(60°-80°)	4334.1	22.3			G2/5000
FVH	(80°-90°)	114.0	0.6			G2/225
BL	(0°-30°)	750.4	3.9	B2/1000		
BM	(30°-60°)	4518.9	23.3	B3/5000		
BH	(60°-80°)	4334.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	114.0	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°	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8
2.5°	1372.9	1372.9	1369.3	1369.3	1362.0	1358.4	1354.8	1354.8	1351.2	1351.2	1347.6
5°	1380.1	1380.1	1380.1	1376.5	1372.9	1369.3	1362.0	1354.8	1351.2	1347.6	1344.0
7.5°	1383.7	1383.7	1380.1	1380.1	1376.5	1372.9	1362.0	1351.2	1347.6	1344.0	1344.0
10°	1412.6	1409.0	1405.4	1398.2	1398.2	1398.2	1383.7	1372.9	1369.3	1369.3	1369.3
12.5°	1481.3	1477.6	1470.4	1459.6	1459.6	1463.2	1441.5	1427.1	1427.1	1423.4	1423.4
15°	1582.4	1578.8	1571.6	1553.5	1549.9	1557.1	1524.6	1510.2	1510.2	1510.2	1506.5
17.5°	1694.4	1687.2	1676.3	1661.9	1661.9	1661.9	1629.4	1611.3	1600.5	1600.5	1596.9
20°	1788.3	1784.7	1784.7	1781.1	1792.0	1792.0	1748.6	1719.7	1694.4	1680.0	1676.3
22.5°	1871.4	1867.8	1875.0	1889.5	1911.2	1918.4	1867.8	1824.5	1784.7	1755.8	1748.6
25°	1983.4	1979.8	1976.2	1997.9	2034.0	2044.8	1990.7	1936.5	1896.7	1882.3	1875.0
27.5°	2102.7	2106.3	2109.9	2131.6	2160.5	2178.5	2124.3	2073.8	2041.2	2019.6	2012.3
30°	2236.3	2243.6	2254.4	2286.9	2308.6	2315.8	2268.8	2232.7	2203.8	2185.7	2174.9
32.5°	2406.1	2420.6	2435.0	2463.9	2474.8	2467.5	2445.9	2420.6	2398.9	2373.6	2370.0
35°	2659.0	2673.5	2669.9	2680.7	2684.3	2677.1	2666.3	2651.8	2641.0	2608.4	2604.8
37.5°	2977.0	2991.4	2969.7	2958.9	2933.6	2937.2	2933.6	2944.4	2948.1	2915.5	2911.9
40°	3298.5	3312.9	3284.0	3255.1	3229.8	3219.0	3237.1	3273.2	3273.2	3251.5	3251.5
42.5°	3641.7	3652.5	3605.6	3569.5	3536.9	3529.7	3540.6	3583.9	3594.7	3591.1	3591.1
45°	3984.9	3977.7	3916.3	3880.2	3851.3	3833.2	3836.8	3869.3	3891.0	3901.8	3901.8
47.5°	4248.7	4237.8	4187.2	4158.3	4140.3	4115.0	4115.0	4133.1	4143.9	4147.5	4147.5
50°	4458.2	4447.4	4396.8	4393.2	4393.2	4382.3	4371.5	4367.9	4360.7	4364.3	4364.3
52.5°	4638.8	4624.4	4588.3	4595.5	4628.0	4635.2	4620.8	4591.9	4563.0	4552.1	4555.8
55°	4833.9	4812.3	4783.4	4805.0	4870.1	4899.0	4877.3	4819.5	4768.9	4736.4	4736.4
57.5°	4989.3	4964.0	4964.0	5025.4	5144.6	5202.4	5155.5	5047.1	4960.4	4924.3	4927.9
60°	4880.9	4859.2	4945.9	5216.9	5440.9	5538.4	5459.0	5267.5	5126.6	5083.2	5090.4
62.5°	4667.7	4653.3	4761.7	5180.8	5708.2	5910.6	5791.3	5516.8	5307.2	5256.6	5256.6
65°	4353.4	4349.8	4501.6	5018.2	5769.7	6268.2	6167.1	5787.7	5516.8	5448.1	5462.6
67.5°	4028.3	4028.3	4165.6	4740.0	5697.4	6420.0	6499.4	6033.4	5617.9	5448.1	5451.7
70°	3453.8	3515.3	3880.2	4483.5	5433.7	6311.6	6636.7	5860.0	5177.2	4877.3	4866.5
72.5°	2276.1	2355.6	3081.7	4035.5	5173.5	5917.8	5990.0	5148.3	4299.2	3948.8	3930.7
75°	1372.9	1441.5	1997.9	3150.4	4548.5	4765.3	4447.4	4035.5	3211.8	2937.2	2937.2
77.5°	404.6	451.6	921.3	1997.9	3146.8	3132.3	2742.1	2377.2	1900.3	1614.9	1636.6
80°	238.4	245.7	299.9	910.4	1304.2	1372.9	1058.6	661.1	661.1	491.3	476.9
82.5°	184.3	184.3	191.5	227.6	314.3	350.4	267.3	227.6	260.1	220.4	209.5
85°	130.1	130.1	130.1	133.7	137.3	140.9	148.1	151.7	166.2	137.3	130.1
87.5°	39.7	43.4	47.0	54.2	65.0	68.6	72.3	65.0	65.0	61.4	57.8
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)