

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: P835882

Luminaire Tested: **ARCH3-110-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835882
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: ARCH3-110-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16153 lumens
Efficiency: N/A
Efficacy: 144.4 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): 111.9
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



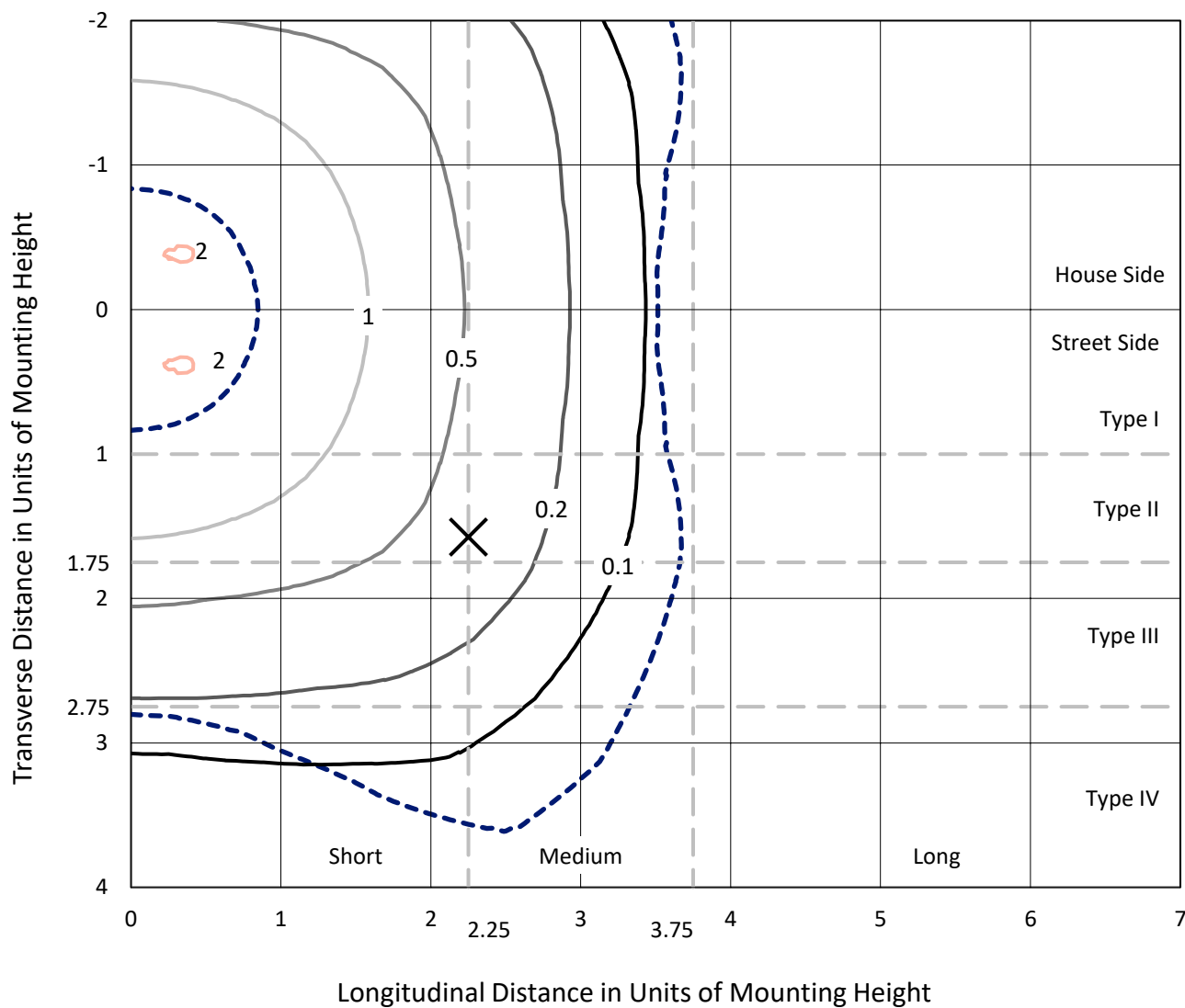
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Iso-Footcandle Lines of Horizontal Illumination

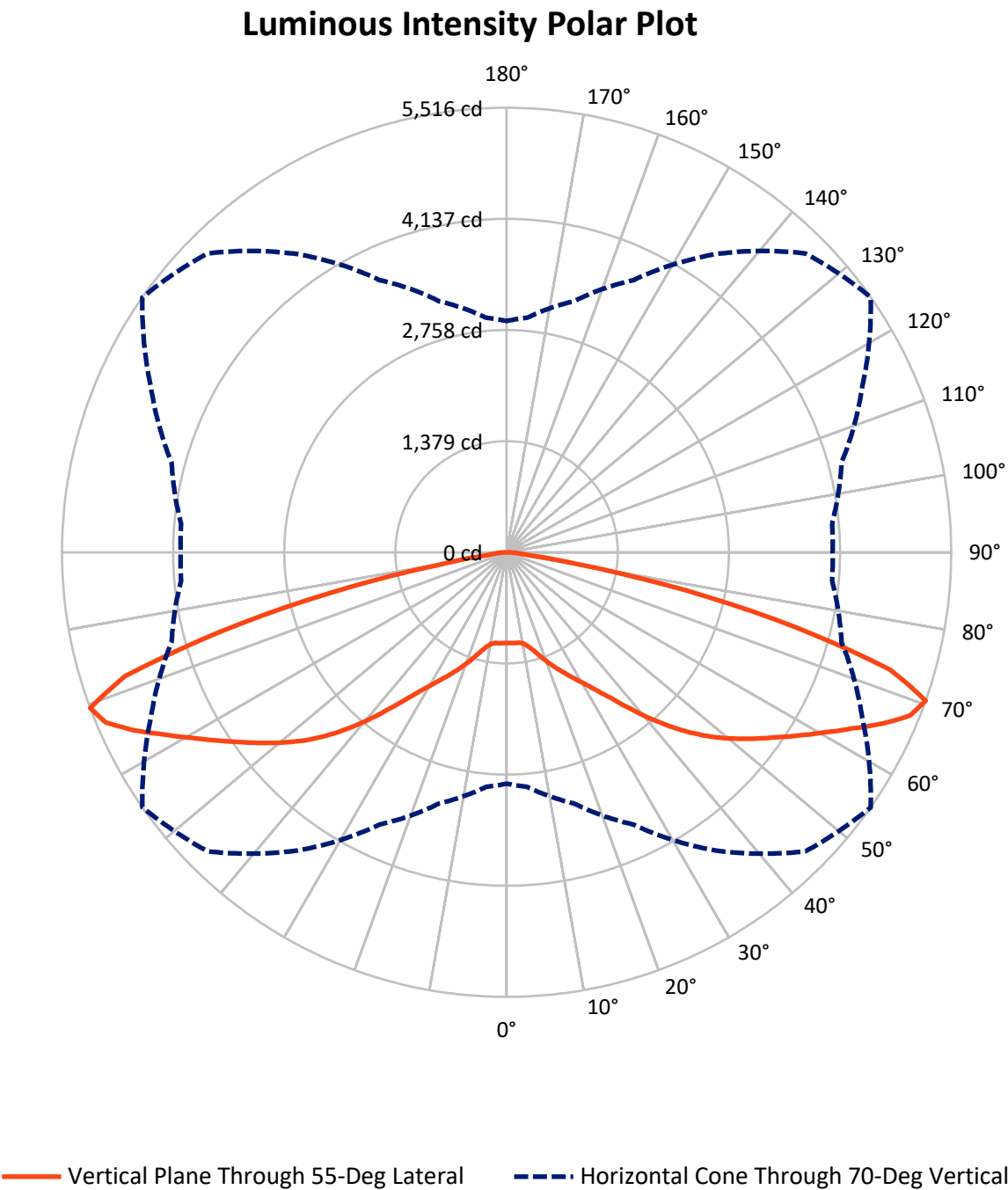
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Medium - N/A

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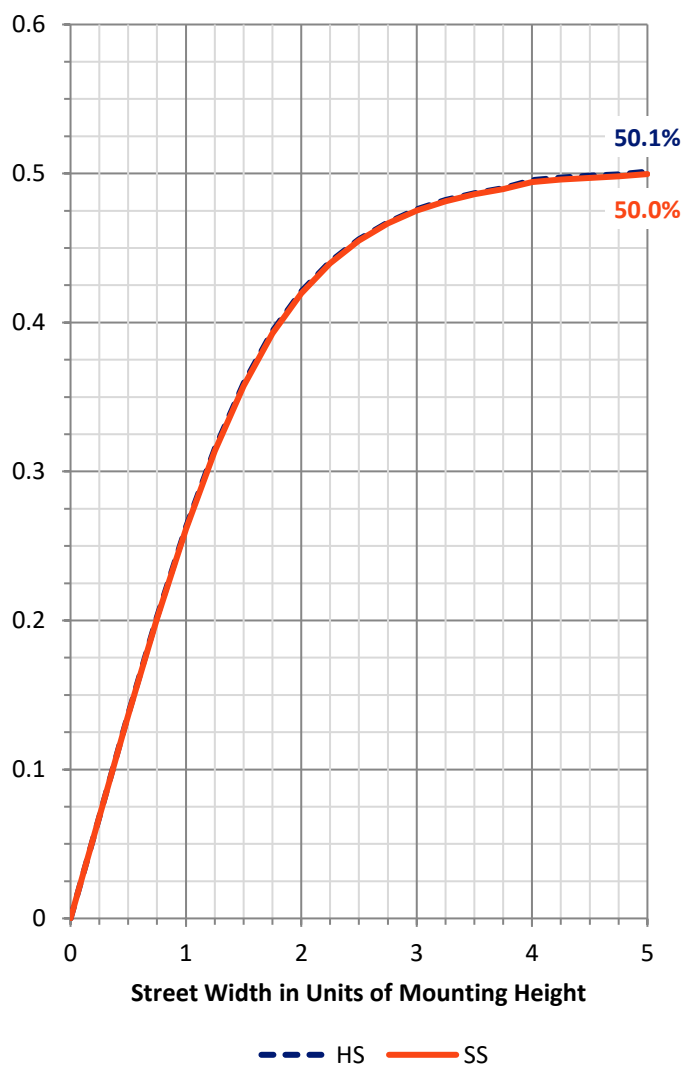
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8076.5	0.0	8076.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8076.5	0.0	8076.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16153.0	0.0	16153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	0.7
10°-20°	370.0	2.3
20°-30°	768.7	4.8
30°-40°	1419.8	8.8
40°-50°	2494.3	15.4
50°-60°	3597.4	22.3
60°-70°	4402.8	27.3
70°-80°	2801.6	17.3
80°-90°	189.6	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°	16153.0	100.0
0°-180°	16153.0	100.0

Coefficient of Utilization



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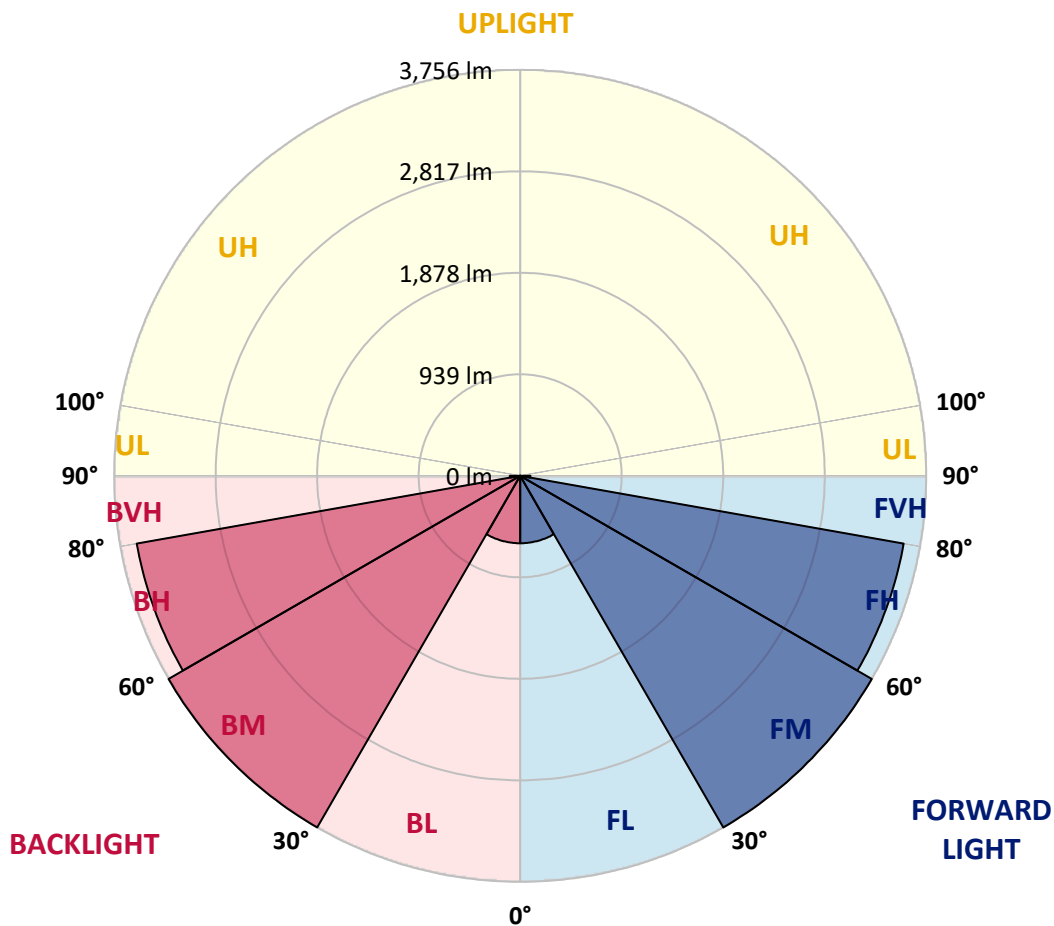
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.7	3.9			
FM	(30°-60°)	3755.8	23.3			
FH	(60°-80°)	3602.2	22.3			G2/5000
FVH	(80°-90°)	94.8	0.6			G1/100
BL	(0°-30°)	623.7	3.9	B2/1000		
BM	(30°-60°)	3755.8	23.3	B3/5000		
BH	(60°-80°)	3602.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	94.8	0.6			G1/100
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°	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0
2.5°	1141.0	1141.0	1138.0	1138.0	1132.0	1129.0	1126.0	1126.0	1123.0	1123.0	1120.0
5°	1147.0	1147.0	1147.0	1144.0	1141.0	1138.0	1132.0	1126.0	1123.0	1120.0	1117.0
7.5°	1150.0	1150.0	1147.0	1147.0	1144.0	1141.0	1132.0	1123.0	1120.0	1117.0	1117.0
10°	1174.1	1171.1	1168.1	1162.0	1162.0	1162.0	1150.0	1141.0	1138.0	1138.0	1138.0
12.5°	1231.1	1228.1	1222.1	1213.1	1213.1	1216.1	1198.1	1186.1	1186.1	1183.1	1183.1
15°	1315.2	1312.2	1306.2	1291.2	1288.2	1294.2	1267.1	1255.1	1255.1	1255.1	1252.1
17.5°	1408.3	1402.3	1393.3	1381.2	1381.2	1381.2	1354.2	1339.2	1330.2	1330.2	1327.2
20°	1486.3	1483.3	1483.3	1480.3	1489.3	1489.3	1453.3	1429.3	1408.3	1396.3	1393.3
22.5°	1555.4	1552.4	1558.4	1570.4	1588.4	1594.4	1552.4	1516.4	1483.3	1459.3	1453.3
25°	1648.5	1645.5	1642.5	1660.5	1690.5	1699.5	1654.5	1609.5	1576.4	1564.4	1558.4
27.5°	1747.6	1750.6	1753.6	1771.6	1795.6	1810.6	1765.6	1723.6	1696.5	1678.5	1672.5
30°	1858.7	1864.7	1873.7	1900.7	1918.7	1924.7	1885.7	1855.7	1831.7	1816.6	1807.6
32.5°	1999.8	2011.8	2023.8	2047.8	2056.9	2050.9	2032.8	2011.8	1993.8	1972.8	1969.8
35°	2210.0	2222.0	2219.0	2228.0	2231.0	2225.0	2216.0	2204.0	2195.0	2168.0	2165.0
37.5°	2474.2	2486.2	2468.2	2459.2	2438.2	2441.2	2438.2	2447.2	2450.2	2423.2	2420.2
40°	2741.5	2753.5	2729.5	2705.4	2684.4	2675.4	2690.4	2720.5	2720.5	2702.4	2702.4
42.5°	3026.7	3035.7	2996.7	2966.7	2939.7	2933.6	2942.7	2978.7	2987.7	2984.7	2984.7
45°	3312.0	3306.0	3254.9	3224.9	3200.9	3185.9	3188.9	3215.9	3233.9	3242.9	3242.9
47.5°	3531.2	3522.2	3480.1	3456.1	3441.1	3420.1	3420.1	3435.1	3444.1	3447.1	3447.1
50°	3705.3	3696.3	3654.3	3651.3	3651.3	3642.3	3633.3	3630.3	3624.3	3627.3	3627.3
52.5°	3855.5	3843.5	3813.4	3819.4	3846.5	3852.5	3840.5	3816.4	3792.4	3783.4	3786.4
55°	4017.6	3999.6	3975.6	3993.6	4047.7	4071.7	4053.7	4005.6	3963.6	3936.6	3936.6
57.5°	4146.7	4125.7	4125.7	4176.8	4275.9	4323.9	4284.9	4194.8	4122.7	4092.7	4095.7
60°	4056.7	4038.6	4110.7	4335.9	4522.1	4603.2	4537.1	4378.0	4260.8	4224.8	4230.8
62.5°	3879.5	3867.5	3957.6	4305.9	4744.3	4912.4	4813.3	4585.1	4411.0	4368.9	4368.9
65°	3618.3	3615.3	3741.4	4170.8	4795.3	5209.7	5125.6	4810.3	4585.1	4528.1	4540.1
67.5°	3348.0	3348.0	3462.1	3939.6	4735.3	5335.8	5401.9	5014.5	4669.2	4528.1	4531.1
70°	2870.6	2921.6	3224.9	3726.4	4516.1	5245.7	5516.0	4870.4	4302.9	4053.7	4044.7
72.5°	1891.7	1957.8	2561.3	3354.0	4299.9	4918.4	4978.5	4278.9	3573.2	3282.0	3266.9
75°	1141.0	1198.1	1660.5	2618.4	3780.4	3960.6	3696.3	3354.0	2669.4	2441.2	2441.2
77.5°	336.3	375.3	765.7	1660.5	2615.4	2603.4	2279.1	1975.8	1579.4	1342.2	1360.2
80°	198.2	204.2	249.2	756.7	1084.0	1141.0	879.8	549.5	549.5	408.4	396.4
82.5°	153.1	153.1	159.1	189.2	261.2	291.3	222.2	189.2	216.2	183.2	174.2
85°	108.1	108.1	108.1	111.1	114.1	117.1	123.1	126.1	138.1	114.1	108.1
87.5°	33.0	36.0	39.0	45.0	54.0	57.1	60.1	54.0	54.0	51.0	48.0
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)