

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: P799279

Luminaire Tested: **ARCH2-100-740-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

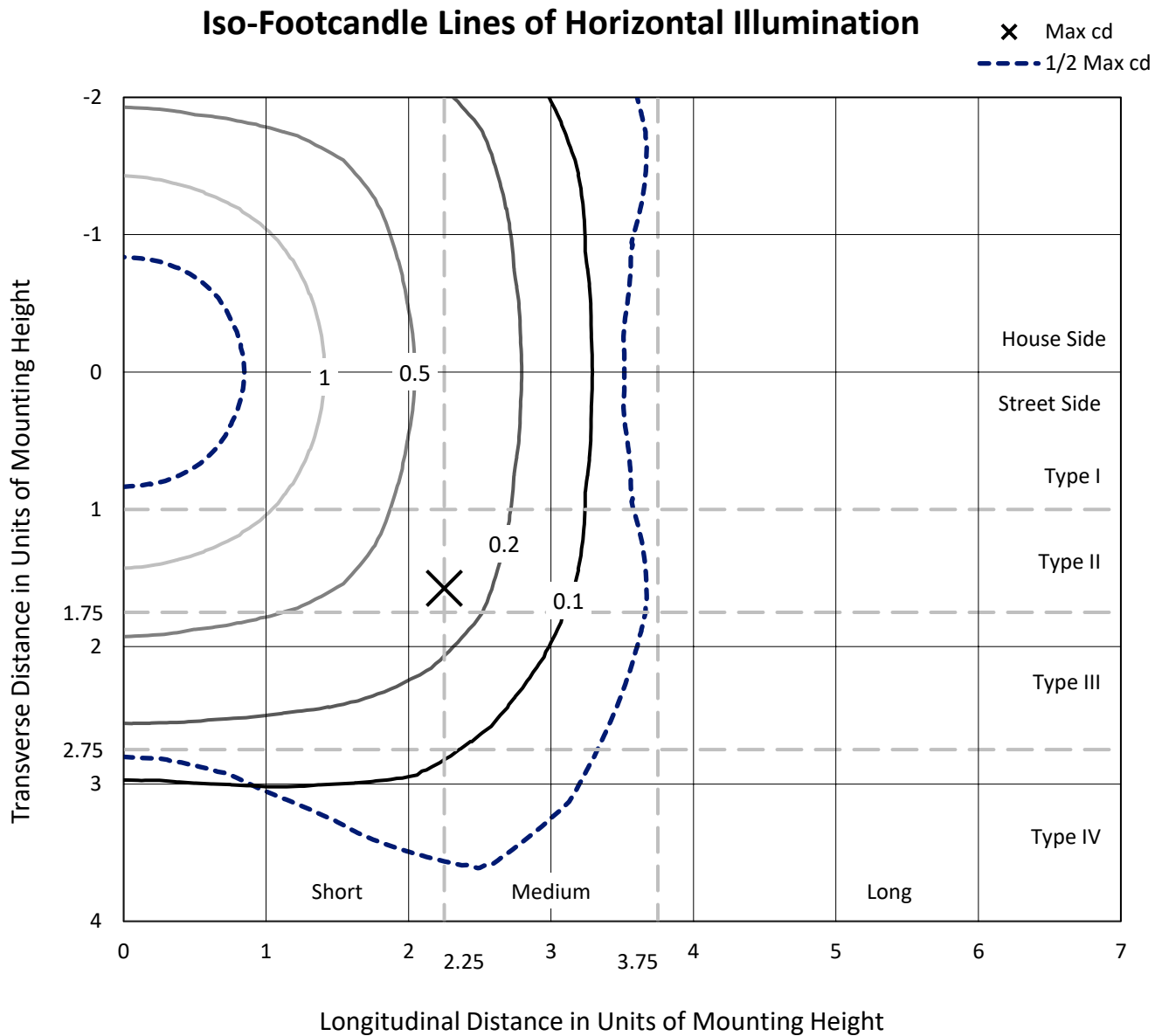
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13320 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 103.3
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

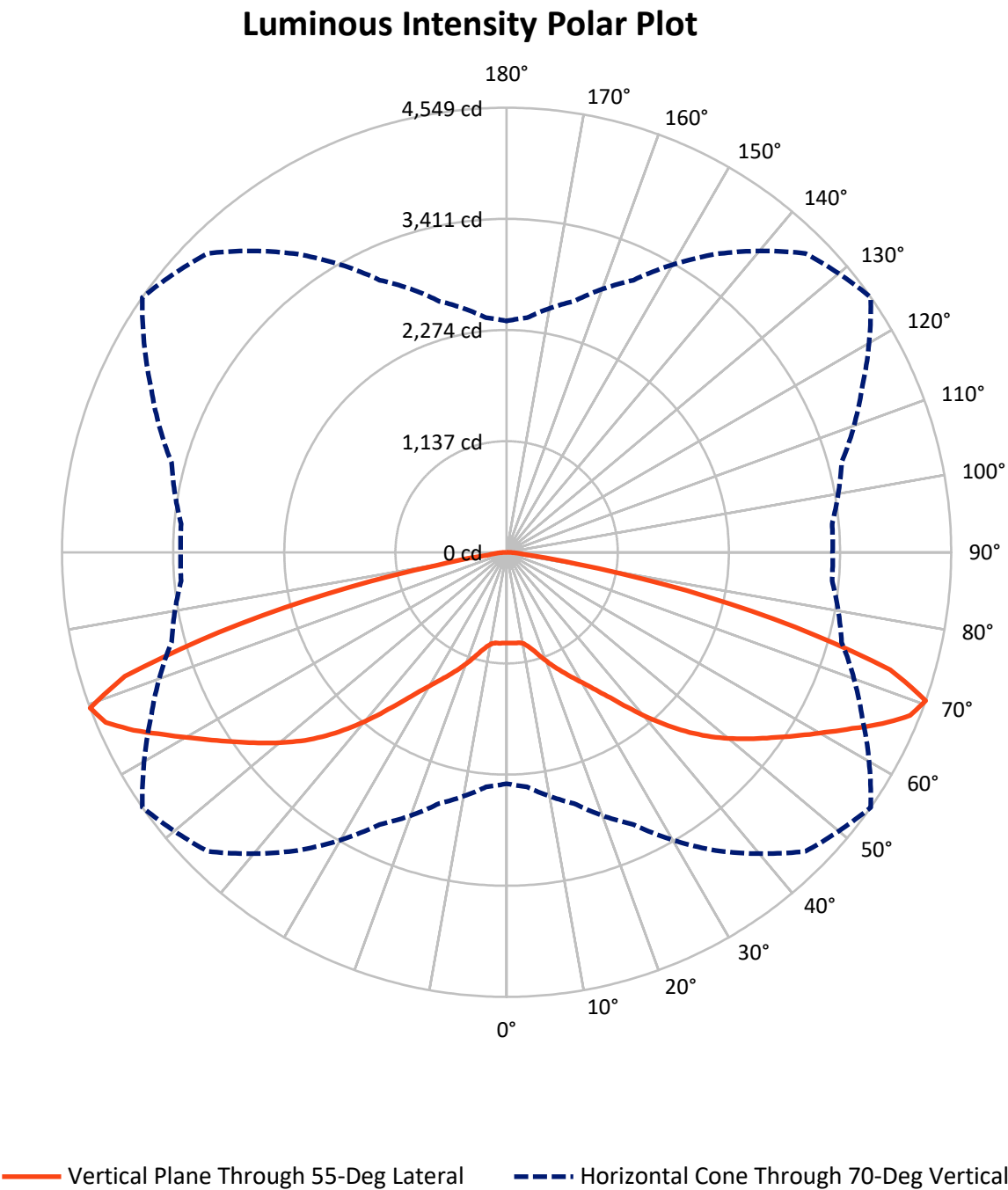


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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Medium - N/A

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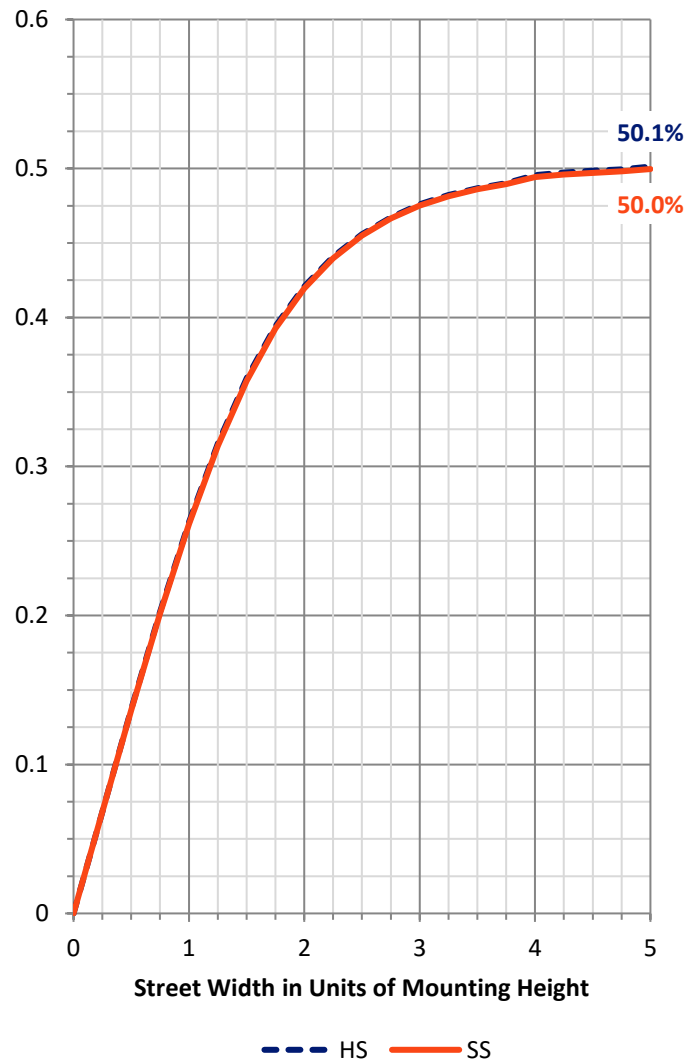
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6660.0	0.0	6660.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6660.0	0.0	6660.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13320.0	0.0	13320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.7
10°-20°	305.1	2.3
20°-30°	633.9	4.8
30°-40°	1170.8	8.8
40°-50°	2056.9	15.4
50°-60°	2966.5	22.3
60°-70°	3630.6	27.3
70°-80°	2310.3	17.3
80°-90°	156.3	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°	13320.0	100.0
0°-180°	13320.0	100.0

Coefficient of Utilization



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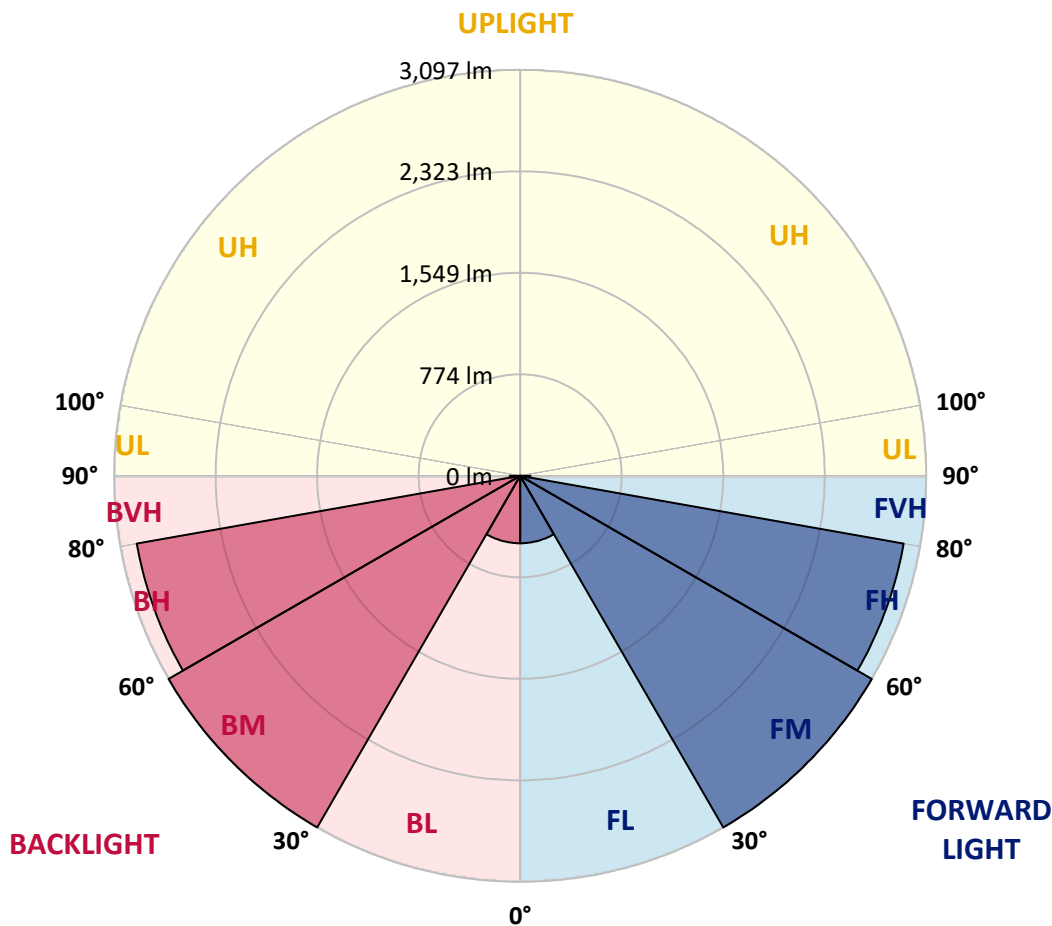
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.3	3.9			
FM	(30°-60°)	3097.1	23.3			
FH	(60°-80°)	2970.5	22.3			G2/5000
FVH	(80°-90°)	78.2	0.6			G1/100
BL	(0°-30°)	514.3	3.9	B2/1000		
BM	(30°-60°)	3097.1	23.3	B3/5000		
BH	(60°-80°)	2970.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	78.2	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°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	940.9	940.9	938.4	938.4	933.5	931.0	928.5	928.5	926.1	926.1	923.6
5°	945.9	945.9	945.9	943.4	940.9	938.4	933.5	928.5	926.1	923.6	921.1
7.5°	948.3	948.3	945.9	945.9	943.4	940.9	933.5	926.1	923.6	921.1	921.1
10°	968.1	965.7	963.2	958.2	958.2	958.2	948.3	940.9	938.4	938.4	938.4
12.5°	1015.2	1012.7	1007.8	1000.3	1000.3	1002.8	988.0	978.1	978.1	975.6	975.6
15°	1084.5	1082.0	1077.1	1064.7	1062.2	1067.2	1044.9	1035.0	1035.0	1035.0	1032.5
17.5°	1161.3	1156.3	1148.9	1139.0	1139.0	1139.0	1116.7	1104.3	1096.9	1096.9	1094.4
20°	1225.7	1223.2	1223.2	1220.7	1228.1	1228.1	1198.4	1178.6	1161.3	1151.4	1148.9
22.5°	1282.6	1280.1	1285.1	1295.0	1309.8	1314.8	1280.1	1250.4	1223.2	1203.4	1198.4
25°	1359.4	1356.9	1354.4	1369.3	1394.0	1401.5	1364.3	1327.2	1299.9	1290.0	1285.1
27.5°	1441.1	1443.6	1446.0	1460.9	1480.7	1493.1	1455.9	1421.3	1399.0	1384.1	1379.2
30°	1532.7	1537.6	1545.1	1567.4	1582.2	1587.2	1555.0	1530.2	1510.4	1498.0	1490.6
32.5°	1649.1	1659.0	1668.9	1688.7	1696.1	1691.2	1676.3	1659.0	1644.1	1626.8	1624.3
35°	1822.4	1832.3	1829.8	1837.3	1839.7	1834.8	1827.3	1817.4	1810.0	1787.7	1785.3
37.5°	2040.3	2050.2	2035.3	2027.9	2010.6	2013.1	2010.6	2018.0	2020.5	1998.2	1995.7
40°	2260.7	2270.6	2250.8	2230.9	2213.6	2206.2	2218.6	2243.3	2243.3	2228.5	2228.5
42.5°	2495.9	2503.3	2471.1	2446.4	2424.1	2419.1	2426.6	2456.3	2463.7	2461.2	2461.2
45°	2731.1	2726.2	2684.1	2659.3	2639.5	2627.1	2629.6	2651.9	2666.7	2674.2	2674.2
47.5°	2911.9	2904.4	2869.8	2850.0	2837.6	2820.3	2820.3	2832.6	2840.1	2842.5	2842.5
50°	3055.5	3048.1	3013.4	3010.9	3010.9	3003.5	2996.1	2993.6	2988.6	2991.1	2991.1
52.5°	3179.3	3169.4	3144.6	3149.6	3171.9	3176.8	3166.9	3147.1	3127.3	3119.9	3122.3
55°	3313.0	3298.1	3278.3	3293.2	3337.8	3357.6	3342.7	3303.1	3268.4	3246.1	3246.1
57.5°	3419.5	3402.1	3402.1	3444.2	3525.9	3565.6	3533.4	3459.1	3399.7	3374.9	3377.4
60°	3345.2	3330.3	3389.8	3575.5	3729.0	3795.8	3741.4	3610.1	3513.6	3483.8	3488.8
62.5°	3199.1	3189.2	3263.5	3550.7	3912.2	4050.9	3969.2	3781.0	3637.4	3602.7	3602.7
65°	2983.7	2981.2	3085.2	3439.3	3954.3	4296.0	4226.7	3966.7	3781.0	3733.9	3743.8
67.5°	2760.8	2760.8	2854.9	3248.6	3904.8	4400.0	4454.5	4135.1	3850.3	3733.9	3736.4
70°	2367.1	2409.2	2659.3	3072.8	3724.0	4325.7	4548.6	4016.2	3548.2	3342.7	3335.3
72.5°	1559.9	1614.4	2112.1	2765.8	3545.7	4055.8	4105.3	3528.4	2946.5	2706.4	2694.0
75°	940.9	988.0	1369.3	2159.1	3117.4	3265.9	3048.1	2765.8	2201.2	2013.1	2013.1
77.5°	277.3	309.5	631.4	1369.3	2156.7	2146.8	1879.3	1629.3	1302.4	1106.8	1121.7
80°	163.4	168.4	205.5	624.0	893.9	940.9	725.5	453.1	453.1	336.7	326.8
82.5°	126.3	126.3	131.2	156.0	215.4	240.2	183.2	156.0	178.3	151.0	143.6
85°	89.1	89.1	89.1	91.6	94.1	96.6	101.5	104.0	113.9	94.1	89.1
87.5°	27.2	29.7	32.2	37.1	44.6	47.0	49.5	44.6	44.6	42.1	39.6
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)