

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: METALUX

Report Number: P709651

Luminaire Tested: **24ARS-L3C3-UNV-3500K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ARS-L3C3-UNV-3500K-HI
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

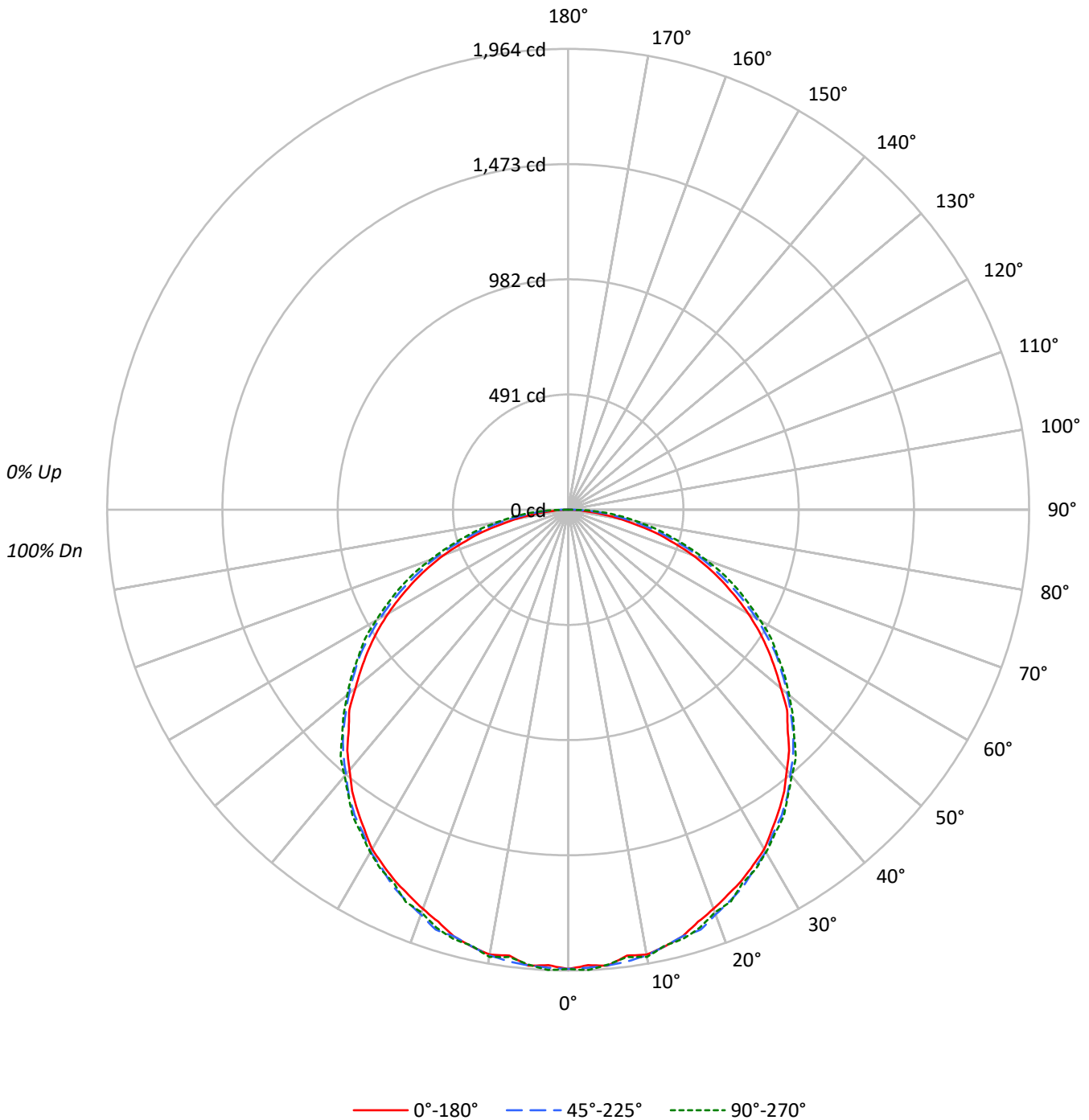
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5877.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2975	2975	2975
5°	2975	2974	2969
10°	2972	2976	2986
15°	2961	2961	2979
20°	2928	2970	2954
25°	2927	2967	2945
30°	2931	2953	2959
35°	2904	2945	2966
40°	2875	2922	2940
45°	2840	2916	2926
50°	2798	2884	2905
55°	2751	2870	2889
60°	2692	2813	2878
65°	2608	2745	2854
70°	2503	2680	2771
75°	2299	2538	2704
80°	1938	2388	2682
85°	1313	2379	2951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	3.2
10°-20°	533.0	9.1
20°-30°	812.6	13.8
30°-40°	990.5	16.9
40°-50°	1041.8	17.7
50°-60°	960.7	16.3
60°-70°	754.5	12.8
70°-80°	454.8	7.7
80°-90°	143.8	2.4
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°-30°	1530.9	26.0
0°-40°	2521.4	42.9
0°-60°	4523.9	77.0
0°-90°	5877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1950	1952	1949	1959	1946	184
15°	1882	1898	1882	1896	1894	530
25°	1746	1763	1770	1759	1756	805
35°	1565	1580	1587	1592	1599	979
45°	1321	1336	1357	1367	1361	1022
55°	1038	1065	1083	1092	1090	928
65°	725	741	763	786	794	718
75°	392	402	432	454	460	410
85°	75	100	136	162	169	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.3	1957.3	1957.3	1957.3	1957.3
2.5°	1943.1	1950.2	1953.7	1958.2	1963.5
5°	1950.2	1952.0	1949.3	1959.1	1945.8
7.5°	1916.5	1946.7	1941.3	1943.1	1922.7
10°	1925.4	1922.7	1928.1	1934.3	1935.1
12.5°	1905.9	1910.4	1905.0	1921.0	1902.4
15°	1882.0	1898.0	1882.0	1896.2	1893.5
17.5°	1841.3	1846.6	1876.7	1863.4	1867.0
20°	1810.3	1833.3	1836.0	1834.2	1826.2
22.5°	1776.6	1794.3	1803.2	1812.0	1808.5
25°	1745.6	1763.3	1769.5	1758.9	1756.2
27.5°	1707.5	1715.5	1720.8	1739.4	1727.9
30°	1670.3	1670.3	1682.7	1689.8	1686.3
32.5°	1616.3	1634.0	1629.6	1637.6	1638.5
35°	1564.9	1580.0	1587.1	1591.5	1598.6
37.5°	1511.8	1522.4	1534.8	1540.1	1537.5
40°	1448.9	1457.8	1472.8	1483.5	1481.7
42.5°	1393.1	1407.3	1417.9	1426.8	1435.6
45°	1321.4	1336.4	1356.8	1366.6	1361.2
47.5°	1264.7	1270.0	1286.0	1295.7	1298.4
50°	1183.2	1213.3	1219.5	1239.0	1228.4
52.5°	1110.6	1138.1	1149.6	1163.7	1162.9
55°	1038.0	1065.4	1083.2	1092.0	1090.2
57.5°	963.6	985.7	1004.3	1016.7	1028.2
60°	885.7	905.1	925.5	941.4	946.8
62.5°	805.1	827.2	844.9	872.4	867.1
65°	725.3	741.3	763.4	785.6	793.5
67.5°	645.6	662.5	681.1	702.3	712.1
70°	563.3	577.4	603.1	617.3	623.5
72.5°	472.1	491.5	518.1	537.6	542.0
75°	391.5	402.1	432.2	454.3	460.5
77.5°	298.5	323.3	353.4	375.5	386.1
80°	221.4	242.7	272.8	297.6	306.4
82.5°	147.9	167.4	201.0	231.2	238.2
85°	75.3	100.1	136.4	162.1	169.2
87.5°	25.7	46.9	73.5	85.0	88.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)