

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: P709666

Luminaire Tested: **24ARS-L3C39-UNV-5000K-HI**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709666  
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-L3C39-UNV-5000K-HI  
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

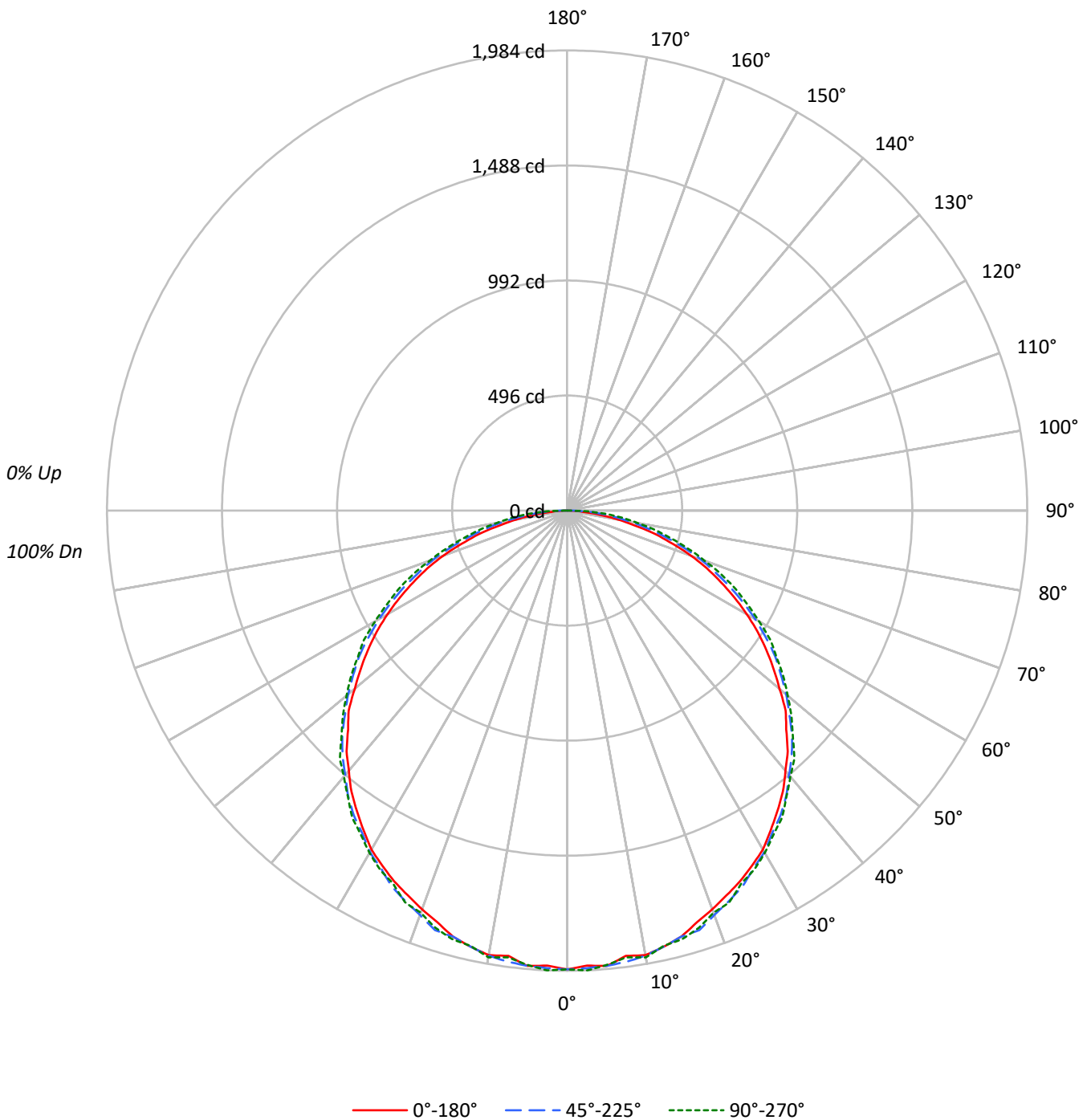
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5939.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 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): 45.3  
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: 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°	3006	3006	3006
5°	3007	3005	3000
10°	3003	3007	3018
15°	2993	2993	3011
20°	2959	3001	2985
25°	2958	2999	2976
30°	2962	2984	2991
35°	2934	2976	2997
40°	2905	2953	2971
45°	2870	2947	2957
50°	2827	2914	2935
55°	2779	2900	2919
60°	2721	2843	2908
65°	2636	2775	2884
70°	2529	2709	2800
75°	2323	2565	2733
80°	1958	2413	2711
85°	1327	2403	2980



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	3.2
10°-20°	538.6	9.1
20°-30°	821.2	13.8
30°-40°	1000.9	16.9
40°-50°	1052.8	17.7
50°-60°	970.8	16.3
60°-70°	762.5	12.8
70°-80°	459.6	7.7
80°-90°	145.4	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°	1547.1	26.0
0°-40°	2548.0	42.9
0°-60°	4571.6	77.0
0°-90°	5939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5939.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1971	1973	1970	1980	1966	186
15°	1902	1918	1902	1916	1914	535
25°	1764	1782	1788	1778	1775	813
35°	1582	1597	1604	1608	1616	990
45°	1335	1350	1371	1381	1376	1033
55°	1049	1077	1095	1104	1102	937
65°	733	749	772	794	802	725
75°	396	406	437	459	465	414
85°	76	101	138	164	171	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1977.9	1977.9	1977.9	1977.9	1977.9
2.5°	1963.6	1970.8	1974.4	1978.8	1984.2
5°	1970.8	1972.6	1969.9	1979.7	1966.3
7.5°	1936.8	1967.2	1961.8	1963.6	1943.0
10°	1945.7	1943.0	1948.4	1954.7	1955.6
12.5°	1926.0	1930.5	1925.1	1941.2	1922.4
15°	1901.9	1918.0	1901.9	1916.2	1913.5
17.5°	1860.7	1866.1	1896.5	1883.1	1886.6
20°	1829.4	1852.6	1855.3	1853.5	1845.5
22.5°	1795.4	1813.3	1822.2	1831.2	1827.6
25°	1764.0	1781.9	1788.2	1777.5	1774.8
27.5°	1725.5	1733.6	1739.0	1757.8	1746.1
30°	1688.0	1688.0	1700.5	1707.6	1704.1
32.5°	1633.4	1651.3	1646.8	1654.8	1655.7
35°	1581.5	1596.7	1603.8	1608.3	1615.5
37.5°	1527.8	1538.5	1551.0	1556.4	1553.7
40°	1464.2	1473.2	1488.4	1499.1	1497.3
42.5°	1407.8	1422.1	1432.9	1441.8	1450.8
45°	1335.3	1350.5	1371.1	1381.0	1375.6
47.5°	1278.1	1283.4	1299.5	1309.4	1312.1
50°	1195.7	1226.1	1232.4	1252.1	1241.4
52.5°	1122.3	1150.1	1161.7	1176.0	1175.1
55°	1048.9	1076.7	1094.6	1103.5	1101.7
57.5°	973.8	996.1	1014.9	1027.5	1039.1
60°	895.0	914.7	935.3	951.4	956.7
62.5°	813.6	835.9	853.8	881.6	876.2
65°	733.0	749.1	771.5	793.9	801.9
67.5°	652.5	669.5	688.3	709.7	719.6
70°	569.2	583.5	609.5	623.8	630.1
72.5°	477.0	496.7	523.6	543.3	547.7
75°	395.6	406.3	436.8	459.1	465.4
77.5°	301.6	326.7	357.1	379.5	390.2
80°	223.7	245.2	275.7	300.7	309.7
82.5°	149.5	169.2	203.2	233.6	240.8
85°	76.1	101.1	137.8	163.8	170.9
87.5°	26.0	47.4	74.3	85.9	89.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)