

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: P709663

Luminaire Tested: **24ARS-L3C39-UNV-4000K-HI**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709663  
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-4000K-HI  
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

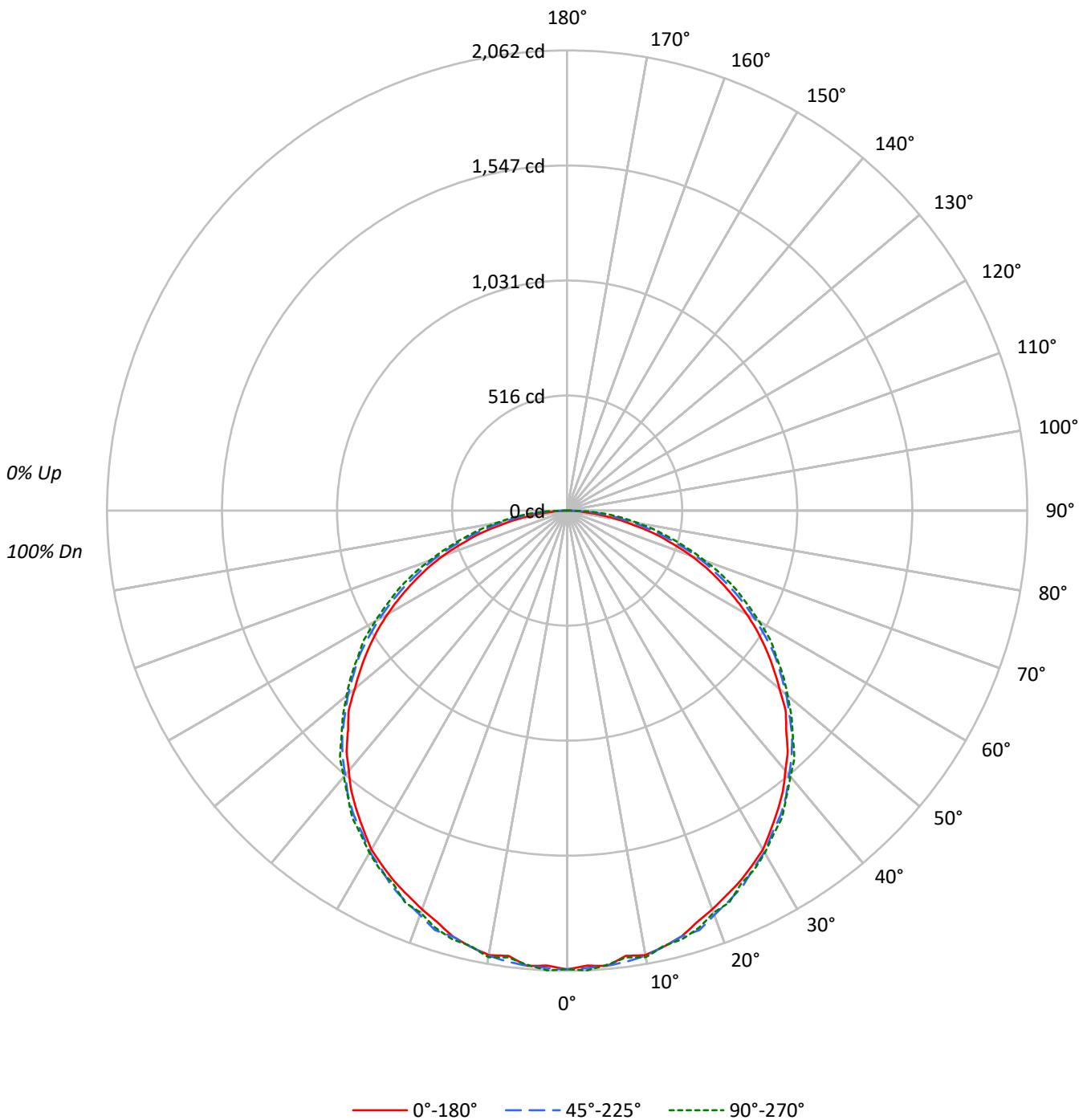
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6172.0 lumens  
Efficiency: N/A  
Efficacy: 140.6 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): 43.9  
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: 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°	3124	3124	3124
5°	3125	3123	3118
10°	3121	3125	3136
15°	3110	3110	3129
20°	3075	3119	3102
25°	3074	3117	3093
30°	3079	3101	3108
35°	3049	3093	3115
40°	3019	3069	3087
45°	2983	3063	3073
50°	2938	3028	3050
55°	2889	3014	3034
60°	2827	2955	3022
65°	2740	2884	2997
70°	2629	2815	2910
75°	2414	2665	2840
80°	2035	2508	2817
85°	1379	2497	3099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.7	3.2
10°-20°	559.7	9.1
20°-30°	853.4	13.8
30°-40°	1040.2	16.9
40°-50°	1094.1	17.7
50°-60°	1008.9	16.3
60°-70°	792.4	12.8
70°-80°	477.6	7.7
80°-90°	151.1	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°	1607.8	26.0
0°-40°	2648.0	42.9
0°-60°	4751.0	77.0
0°-90°	6172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6172.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2048	2050	2047	2057	2043	194
15°	1976	1993	1976	1991	1989	556
25°	1833	1852	1858	1847	1844	845
35°	1644	1659	1667	1671	1679	1028
45°	1388	1404	1425	1435	1430	1074
55°	1090	1119	1138	1147	1145	974
65°	762	778	802	825	833	754
75°	411	422	454	477	484	430
85°	79	105	143	170	178	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2055.5	2055.5	2055.5	2055.5	2055.5
2.5°	2040.7	2048.1	2051.8	2056.5	2062.0
5°	2048.1	2050.0	2047.2	2057.4	2043.4
7.5°	2012.8	2044.4	2038.8	2040.7	2019.3
10°	2022.1	2019.3	2024.8	2031.4	2032.3
12.5°	2001.6	2006.2	2000.7	2017.4	1997.9
15°	1976.5	1993.2	1976.5	1991.4	1988.6
17.5°	1933.7	1939.3	1970.9	1956.9	1960.7
20°	1901.1	1925.3	1928.1	1926.3	1917.9
22.5°	1865.8	1884.4	1893.7	1903.0	1899.3
25°	1833.2	1851.8	1858.4	1847.2	1844.4
27.5°	1793.2	1801.6	1807.2	1826.7	1814.6
30°	1754.2	1754.2	1767.2	1774.6	1770.9
32.5°	1697.4	1716.0	1711.4	1719.8	1720.7
35°	1643.5	1659.3	1666.8	1671.4	1678.8
37.5°	1587.7	1598.9	1611.9	1617.5	1614.7
40°	1521.7	1531.0	1546.8	1557.9	1556.1
42.5°	1463.1	1477.9	1489.1	1498.4	1507.7
45°	1387.7	1403.5	1424.9	1435.2	1429.6
47.5°	1328.2	1333.8	1350.5	1360.7	1363.5
50°	1242.6	1274.2	1280.8	1301.2	1290.1
52.5°	1166.4	1195.2	1207.3	1222.2	1221.2
55°	1090.1	1118.9	1137.5	1146.8	1145.0
57.5°	1012.0	1035.2	1054.7	1067.8	1079.9
60°	930.1	950.6	972.0	988.7	994.3
62.5°	845.5	868.7	887.3	916.2	910.6
65°	761.8	778.5	801.8	825.0	833.4
67.5°	678.0	695.7	715.3	737.6	747.8
70°	591.5	606.4	633.4	648.3	654.8
72.5°	495.7	516.2	544.1	564.6	569.2
75°	411.1	422.3	453.9	477.1	483.7
77.5°	313.4	339.5	371.1	394.4	405.5
80°	232.5	254.8	286.5	312.5	321.8
82.5°	155.3	175.8	211.1	242.8	250.2
85°	79.1	105.1	143.2	170.2	177.7
87.5°	27.0	49.3	77.2	89.3	93.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)