

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: P709645

Luminaire Tested: **24ARS-L3C3-HO-UNV-4000K-HI**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709645  
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-HO-UNV-4000K-HI  
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

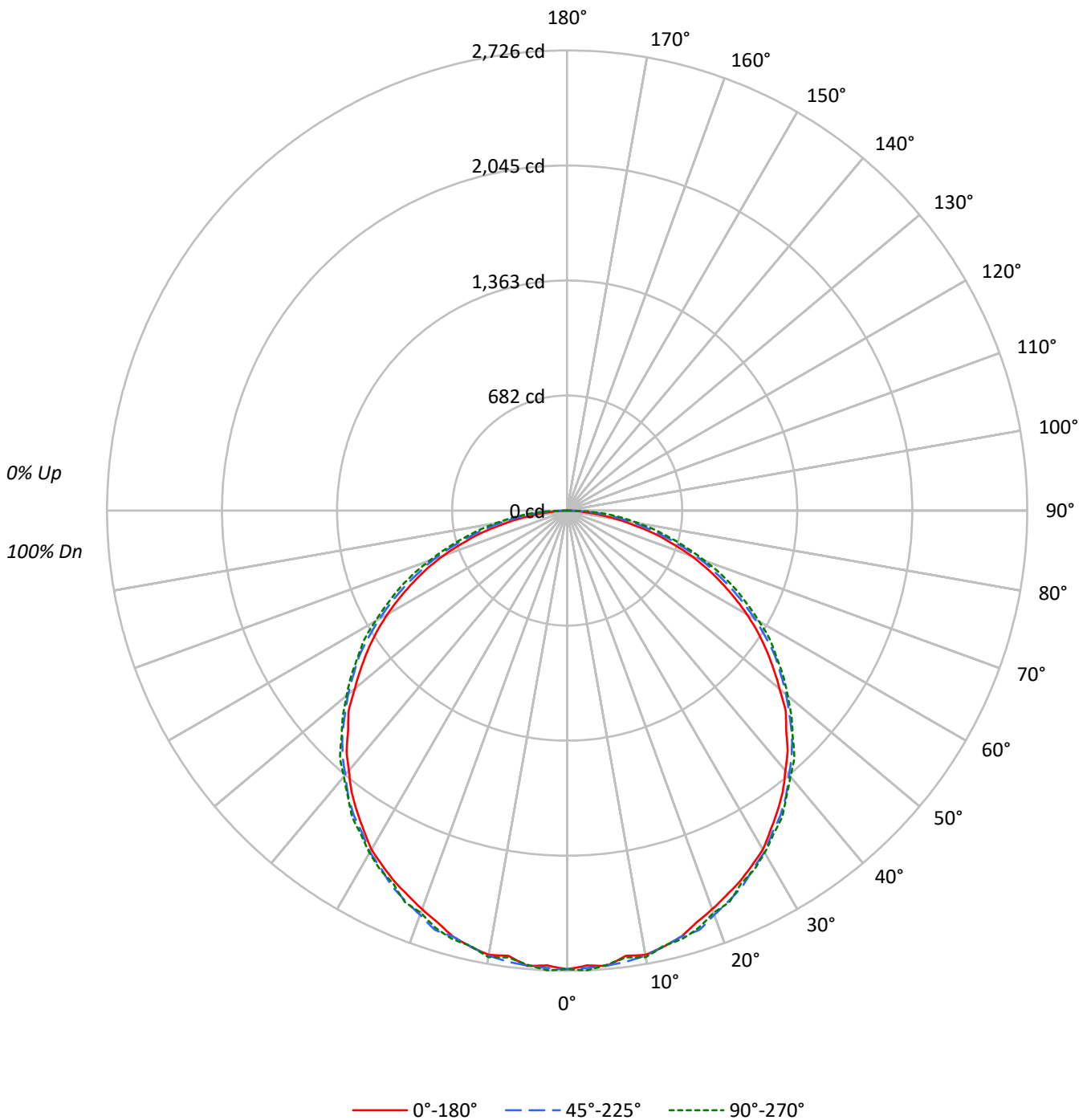
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8158.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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): 58.4  
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°	4130	4130	4130
5°	4130	4128	4121
10°	4125	4131	4146
15°	4111	4111	4136
20°	4064	4122	4100
25°	4064	4119	4088
30°	4069	4099	4108
35°	4031	4088	4117
40°	3991	4056	4081
45°	3943	4048	4062
50°	3884	4003	4032
55°	3818	3984	4010
60°	3737	3905	3995
65°	3621	3811	3961
70°	3475	3720	3846
75°	3191	3523	3754
80°	2690	3315	3723
85°	1822	3301	4095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.3	3.2
10°-20°	739.8	9.1
20°-30°	1128.0	13.8
30°-40°	1374.9	16.9
40°-50°	1446.1	17.7
50°-60°	1333.6	16.3
60°-70°	1047.3	12.8
70°-80°	631.3	7.7
80°-90°	199.7	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°	2125.1	26.0
0°-40°	3500.0	42.9
0°-60°	6279.7	77.0
0°-90°	8158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2707	2710	2706	2719	2701	256
15°	2612	2635	2612	2632	2628	735
25°	2423	2448	2456	2442	2438	1117
35°	2172	2193	2203	2209	2219	1359
45°	1834	1855	1883	1897	1890	1419
55°	1441	1479	1504	1516	1513	1288
65°	1007	1029	1060	1090	1102	996
75°	543	558	600	631	639	569
85°	104	139	189	225	235	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2717.0	2717.0	2717.0	2717.0	2717.0
2.5°	2697.3	2707.1	2712.0	2718.2	2725.6
5°	2707.1	2709.6	2705.9	2719.4	2701.0
7.5°	2660.4	2702.2	2694.8	2697.3	2669.0
10°	2672.7	2669.0	2676.4	2685.0	2686.2
12.5°	2645.7	2651.8	2644.4	2666.6	2640.7
15°	2612.5	2634.6	2612.5	2632.1	2628.4
17.5°	2555.9	2563.3	2605.1	2586.6	2591.6
20°	2512.9	2544.8	2548.5	2546.1	2535.0
22.5°	2466.2	2490.8	2503.0	2515.3	2510.4
25°	2423.1	2447.7	2456.3	2441.6	2437.9
27.5°	2370.3	2381.3	2388.7	2414.5	2398.5
30°	2318.6	2318.6	2335.8	2345.7	2340.8
32.5°	2243.6	2268.2	2262.1	2273.1	2274.4
35°	2172.3	2193.2	2203.1	2209.2	2219.1
37.5°	2098.6	2113.3	2130.5	2137.9	2134.2
40°	2011.3	2023.6	2044.5	2059.2	2056.8
42.5°	1933.8	1953.5	1968.3	1980.6	1992.8
45°	1834.3	1855.2	1883.4	1897.0	1889.6
47.5°	1755.6	1762.9	1785.1	1798.6	1802.3
50°	1642.5	1684.3	1692.9	1719.9	1705.2
52.5°	1541.7	1579.8	1595.8	1615.4	1614.2
55°	1440.8	1479.0	1503.5	1515.8	1513.4
57.5°	1337.6	1368.3	1394.1	1411.3	1427.3
60°	1229.4	1256.4	1284.7	1306.8	1314.2
62.5°	1117.5	1148.3	1172.8	1211.0	1203.6
65°	1006.9	1029.0	1059.7	1090.5	1101.5
67.5°	896.2	919.6	945.4	974.9	988.4
70°	781.9	801.6	837.2	856.9	865.5
72.5°	655.3	682.3	719.2	746.2	752.4
75°	543.4	558.1	599.9	630.7	639.3
77.5°	414.3	448.7	490.5	521.3	536.0
80°	307.3	336.9	378.7	413.1	425.4
82.5°	205.3	232.4	279.1	320.9	330.7
85°	104.5	138.9	189.3	225.0	234.8
87.5°	35.7	65.2	102.0	118.0	122.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)