

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: P709648

Luminaire Tested: **24ARS-L3C3-HO-UNV-5000K-HI**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709648  
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-5000K-HI  
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

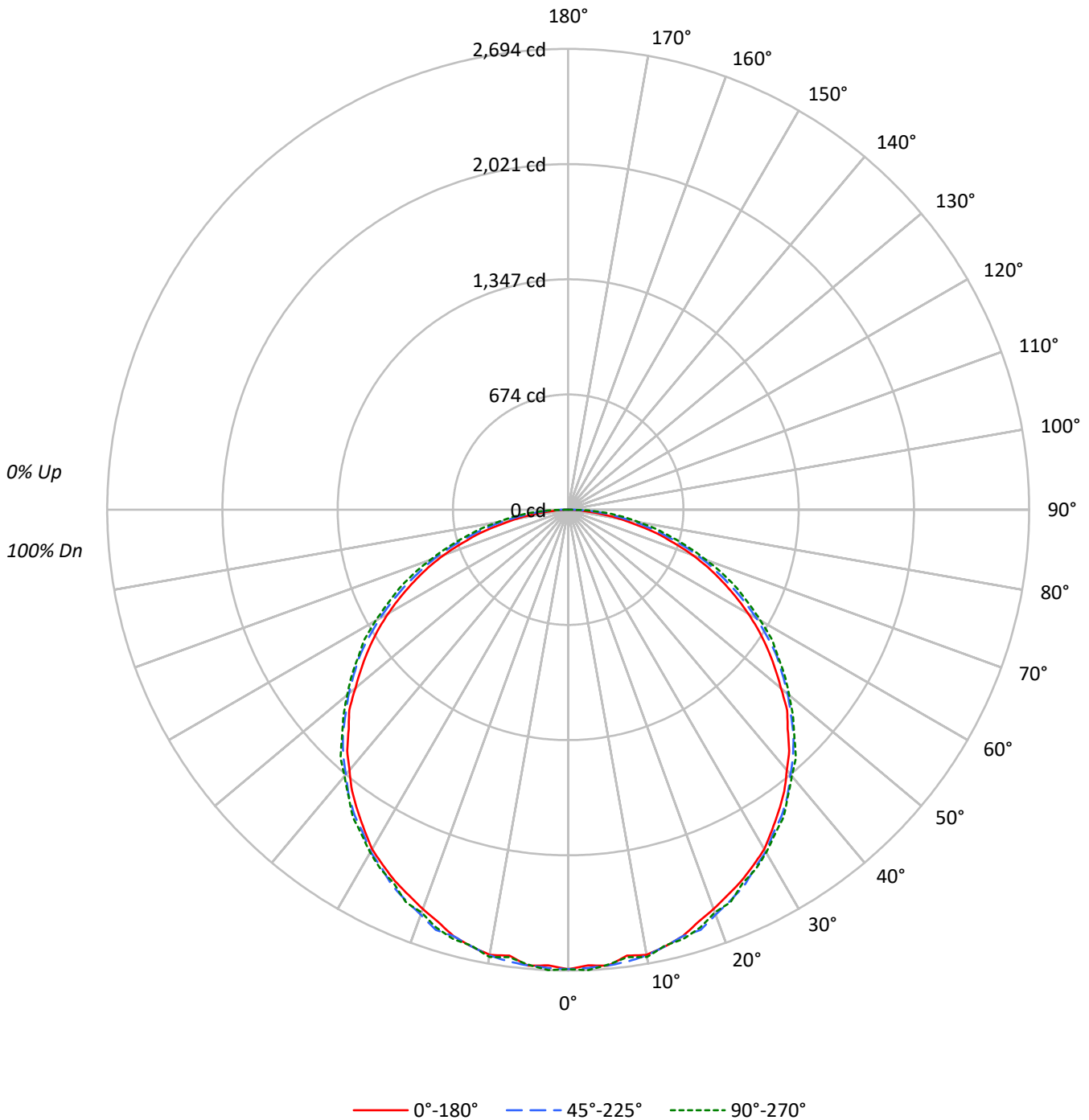
Lumens per Lamp: N/A  
Luminaire Lumens: 8064.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4082	4082	4082
5°	4083	4081	4073
10°	4077	4083	4098
15°	4063	4063	4088
20°	4018	4075	4053
25°	4017	4072	4041
30°	4022	4052	4061
35°	3984	4041	4070
40°	3945	4010	4034
45°	3897	4002	4015
50°	3839	3957	3985
55°	3774	3938	3964
60°	3694	3860	3949
65°	3579	3767	3916
70°	3435	3678	3802
75°	3154	3482	3711
80°	2659	3276	3680
85°	1801	3263	4048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.4	3.2
10°-20°	731.3	9.1
20°-30°	1115.0	13.8
30°-40°	1359.0	16.9
40°-50°	1429.5	17.7
50°-60°	1318.2	16.3
60°-70°	1035.2	12.8
70°-80°	624.0	7.7
80°-90°	197.4	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°	2100.6	26.0
0°-40°	3459.7	42.9
0°-60°	6207.4	77.0
0°-90°	8064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2686	2686	2686	2686	2686	
5°	2676	2678	2675	2688	2670	253
15°	2582	2604	2582	2602	2598	727
25°	2395	2420	2428	2413	2410	1104
35°	2147	2168	2178	2184	2194	1344
45°	1813	1834	1862	1875	1868	1403
55°	1424	1462	1486	1498	1496	1273
65°	995	1017	1048	1078	1089	985
75°	537	552	593	623	632	562
85°	103	137	187	222	232	134
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2685.7	2685.7	2685.7	2685.7	2685.7
2.5°	2666.2	2675.9	2680.8	2686.9	2694.2
5°	2675.9	2678.4	2674.7	2688.1	2669.9
7.5°	2629.8	2671.1	2663.8	2666.2	2638.3
10°	2641.9	2638.3	2645.6	2654.1	2655.3
12.5°	2615.2	2621.2	2614.0	2635.8	2610.3
15°	2582.4	2604.2	2582.4	2601.8	2598.2
17.5°	2526.5	2533.7	2575.1	2556.8	2561.7
20°	2483.9	2515.5	2519.2	2516.7	2505.8
22.5°	2437.7	2462.1	2474.2	2486.4	2481.5
25°	2395.2	2419.5	2428.0	2413.4	2409.8
27.5°	2343.0	2353.9	2361.2	2386.7	2370.9
30°	2291.9	2291.9	2308.9	2318.7	2313.8
32.5°	2217.8	2242.1	2236.0	2247.0	2248.2
35°	2147.3	2168.0	2177.7	2183.8	2193.5
37.5°	2074.4	2089.0	2106.0	2113.3	2109.6
40°	1988.1	2000.3	2020.9	2035.5	2033.1
42.5°	1911.6	1931.0	1945.6	1957.7	1969.9
45°	1813.1	1833.8	1861.7	1875.1	1867.8
47.5°	1735.3	1742.6	1764.5	1777.9	1781.5
50°	1623.5	1664.9	1673.4	1700.1	1685.5
52.5°	1523.9	1561.6	1577.4	1596.8	1595.6
55°	1424.2	1461.9	1486.2	1498.4	1495.9
57.5°	1322.2	1352.5	1378.1	1395.1	1410.9
60°	1215.2	1242.0	1269.9	1291.8	1299.1
62.5°	1104.6	1135.0	1159.3	1197.0	1189.7
65°	995.3	1017.1	1047.5	1077.9	1088.8
67.5°	885.9	909.0	934.5	963.7	977.0
70°	772.9	792.3	827.6	847.0	855.5
72.5°	647.7	674.5	710.9	737.6	743.7
75°	537.1	551.7	593.0	623.4	631.9
77.5°	409.5	443.6	484.9	515.3	529.8
80°	303.8	333.0	374.3	408.3	420.5
82.5°	202.9	229.7	275.9	317.2	326.9
85°	103.3	137.3	187.1	222.4	232.1
87.5°	35.2	64.4	100.9	116.7	121.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)