

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: P709646

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709646  
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-LOW  
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

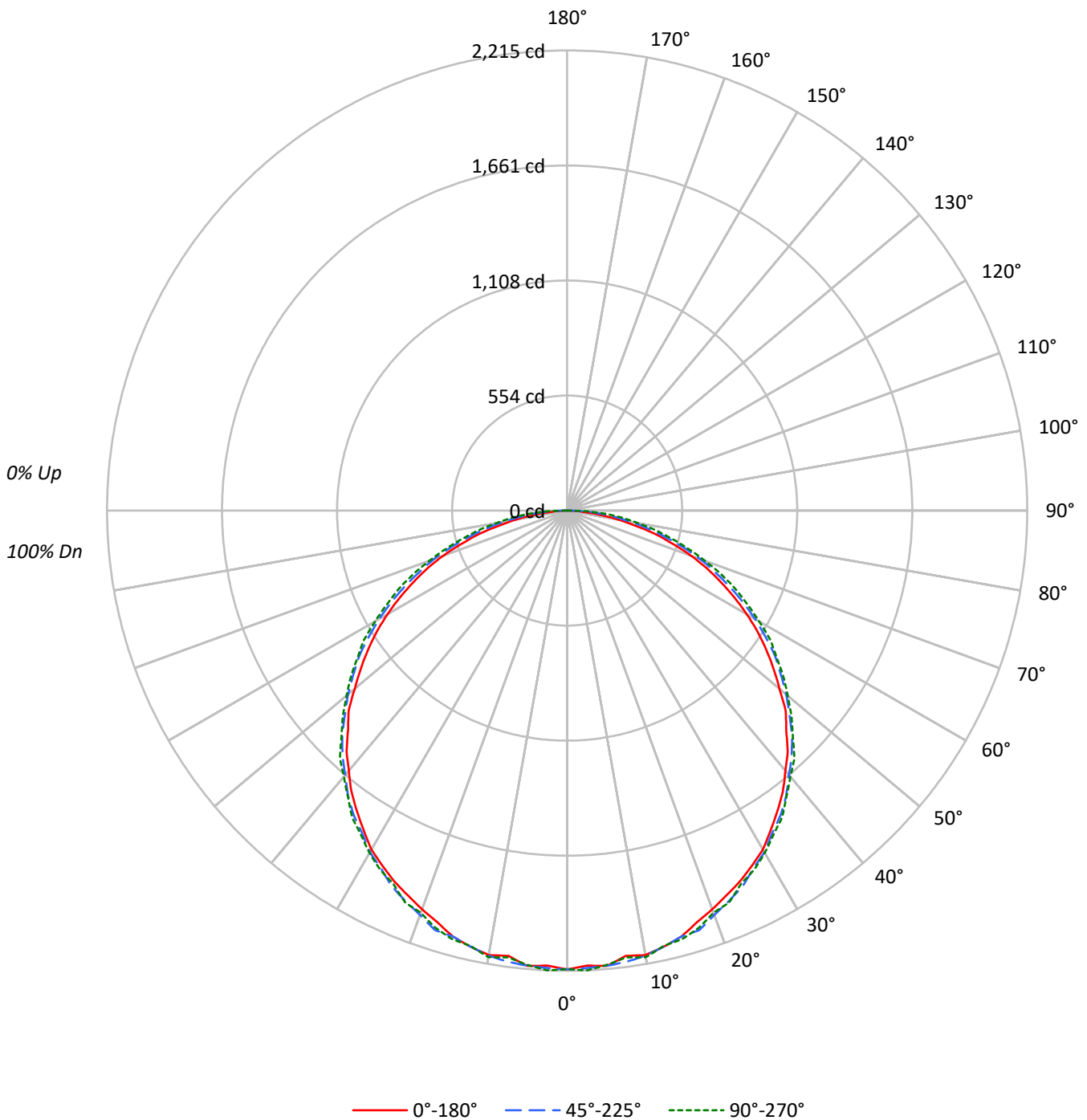
Lumens per Lamp: N/A  
Luminaire Lumens: 6630.0 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 46  
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°	3356	3356	3356
5°	3357	3355	3349
10°	3352	3357	3369
15°	3341	3341	3361
20°	3303	3350	3332
25°	3303	3348	3323
30°	3307	3332	3339
35°	3276	3322	3346
40°	3243	3297	3316
45°	3204	3290	3301
50°	3156	3253	3277
55°	3103	3238	3259
60°	3037	3174	3247
65°	2943	3097	3219
70°	2824	3024	3126
75°	2593	2863	3051
80°	2186	2693	3026
85°	1481	2684	3327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.1	3.2
10°-20°	601.3	9.1
20°-30°	916.7	13.8
30°-40°	1117.4	16.9
40°-50°	1175.3	17.7
50°-60°	1083.8	16.3
60°-70°	851.2	12.8
70°-80°	513.1	7.7
80°-90°	162.3	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°	1727.1	26.0
0°-40°	2844.4	42.9
0°-60°	5103.5	77.0
0°-90°	6630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2200	2202	2199	2210	2195	208
15°	2123	2141	2123	2139	2136	597
25°	1969	1989	1996	1984	1981	908
35°	1766	1782	1790	1795	1803	1105
45°	1491	1508	1531	1542	1536	1153
55°	1171	1202	1222	1232	1230	1046
65°	818	836	861	886	895	810
75°	442	454	488	513	520	462
85°	85	113	154	183	191	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2208.1	2208.1	2208.1	2208.1	2208.1
2.5°	2192.1	2200.1	2204.1	2209.1	2215.1
5°	2200.1	2202.1	2199.1	2210.1	2195.1
7.5°	2162.1	2196.1	2190.1	2192.1	2169.1
10°	2172.1	2169.1	2175.1	2182.1	2183.1
12.5°	2150.1	2155.1	2149.1	2167.1	2146.1
15°	2123.1	2141.1	2123.1	2139.1	2136.1
17.5°	2077.2	2083.2	2117.1	2102.2	2106.2
20°	2042.2	2068.2	2071.2	2069.2	2060.2
22.5°	2004.2	2024.2	2034.2	2044.2	2040.2
25°	1969.3	1989.3	1996.3	1984.3	1981.3
27.5°	1926.3	1935.3	1941.3	1962.3	1949.3
30°	1884.4	1884.4	1898.3	1906.3	1902.3
32.5°	1823.4	1843.4	1838.4	1847.4	1848.4
35°	1765.5	1782.4	1790.4	1795.4	1803.4
37.5°	1705.5	1717.5	1731.5	1737.5	1734.5
40°	1634.6	1644.6	1661.5	1673.5	1671.5
42.5°	1571.6	1587.6	1599.6	1609.6	1619.6
45°	1490.7	1507.7	1530.7	1541.7	1535.7
47.5°	1426.8	1432.7	1450.7	1461.7	1464.7
50°	1334.8	1368.8	1375.8	1397.8	1385.8
52.5°	1252.9	1283.9	1296.9	1312.9	1311.9
55°	1171.0	1201.9	1221.9	1231.9	1229.9
57.5°	1087.1	1112.0	1133.0	1147.0	1160.0
60°	999.1	1021.1	1044.1	1062.1	1068.1
62.5°	908.2	933.2	953.2	984.1	978.1
65°	818.3	836.3	861.2	886.2	895.2
67.5°	728.4	747.3	768.3	792.3	803.3
70°	635.4	651.4	680.4	696.4	703.4
72.5°	532.5	554.5	584.5	606.5	611.5
75°	441.6	453.6	487.6	512.6	519.5
77.5°	336.7	364.7	398.7	423.6	435.6
80°	249.8	273.8	307.7	335.7	345.7
82.5°	166.9	188.8	226.8	260.8	268.8
85°	84.9	112.9	153.9	182.8	190.8
87.5°	29.0	53.0	82.9	95.9	99.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)