

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: P709985

Luminaire Tested: **24ARS-L3C3-NUV-4000K-LOW**

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/4/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24ARS-L3C3-NUV-4000K-LOW  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

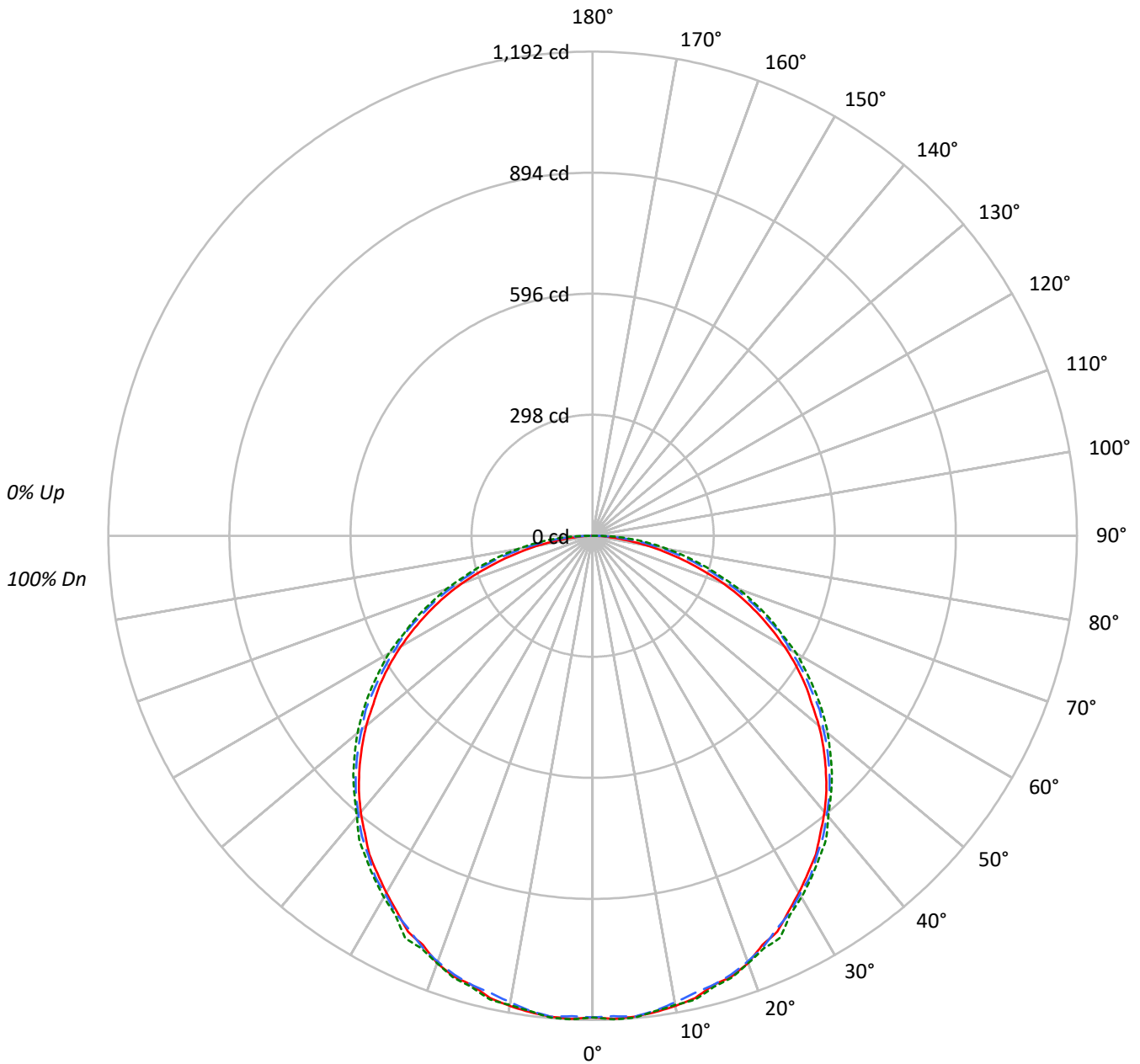
Lumens per Lamp: N/A  
Luminaire Lumens: 3581.0 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.1  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	88	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	61	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	45	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°	1802	1802	1802
5°	1813	1813	1816
10°	1814	1800	1810
15°	1802	1802	1810
20°	1810	1804	1811
25°	1803	1793	1832
30°	1781	1789	1804
35°	1777	1784	1802
40°	1761	1779	1791
45°	1744	1772	1791
50°	1720	1754	1786
55°	1692	1735	1773
60°	1655	1708	1762
65°	1601	1684	1728
70°	1518	1628	1700
75°	1359	1561	1657
80°	1147	1456	1638
85°	781	1442	1744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	3.1
10°-20°	324.7	9.1
20°-30°	495.7	13.8
30°-40°	602.8	16.8
40°-50°	635.0	17.7
50°-60°	585.6	16.4
60°-70°	461.1	12.9
70°-80°	276.6	7.7
80°-90°	86.6	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°	933.2	26.1
0°-40°	1536.0	42.9
0°-60°	2756.6	77.0
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1188	1182	1188	1193	1191	113
15°	1145	1145	1145	1163	1150	325
25°	1075	1067	1069	1089	1092	493
35°	958	950	962	972	971	598
45°	812	812	824	836	833	626
55°	639	648	655	667	669	570
65°	445	459	468	480	481	440
75°	231	249	266	276	282	246
85°	45	61	83	100	100	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1190.6	1185.2	1183.8	1187.7	1191.6
5°	1188.2	1182.3	1188.2	1193.1	1190.6
7.5°	1182.8	1177.8	1179.3	1181.3	1180.3
10°	1175.4	1169.0	1166.5	1177.8	1172.9
12.5°	1165.5	1156.2	1153.7	1170.9	1169.5
15°	1145.3	1145.3	1145.3	1162.6	1150.3
17.5°	1137.5	1129.1	1133.0	1145.3	1140.4
20°	1119.2	1109.9	1115.3	1122.7	1119.7
22.5°	1090.7	1093.6	1096.6	1108.4	1100.0
25°	1075.4	1067.1	1069.0	1089.2	1092.2
27.5°	1042.9	1045.9	1048.3	1058.7	1051.8
30°	1014.9	1015.8	1019.3	1031.6	1027.7
32.5°	985.8	985.8	995.7	1007.0	1000.6
35°	957.7	950.3	961.7	971.5	971.0
37.5°	921.3	921.3	932.6	940.0	943.5
40°	887.8	888.8	896.7	904.6	902.6
42.5°	851.4	854.3	862.7	870.1	867.6
45°	811.5	812.5	824.3	836.1	833.2
47.5°	770.6	774.1	783.9	795.2	793.8
50°	727.3	730.7	741.6	753.9	755.4
52.5°	680.0	688.9	704.1	712.0	713.5
55°	638.7	648.5	654.9	666.7	669.2
57.5°	593.4	598.3	610.1	619.9	622.9
60°	544.6	549.0	561.8	576.1	579.6
62.5°	494.9	503.2	520.5	529.8	525.4
65°	445.1	458.9	468.3	479.6	480.6
67.5°	394.9	405.3	418.5	431.4	429.9
70°	341.7	350.1	366.4	377.2	382.6
72.5°	285.1	296.9	315.1	327.9	328.4
75°	231.4	248.7	265.9	276.2	282.2
77.5°	180.7	195.5	215.2	230.0	233.4
80°	131.0	145.8	166.4	180.2	187.1
82.5°	83.7	99.5	122.1	138.9	141.8
85°	44.8	60.6	82.7	99.5	100.0
87.5°	14.8	29.1	43.3	51.7	54.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)