

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: P709965

Luminaire Tested: **14ARS-L3C3-NUV-3500K-MID**

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/4/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ARS-L3C3-NUV-3500K-MID  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

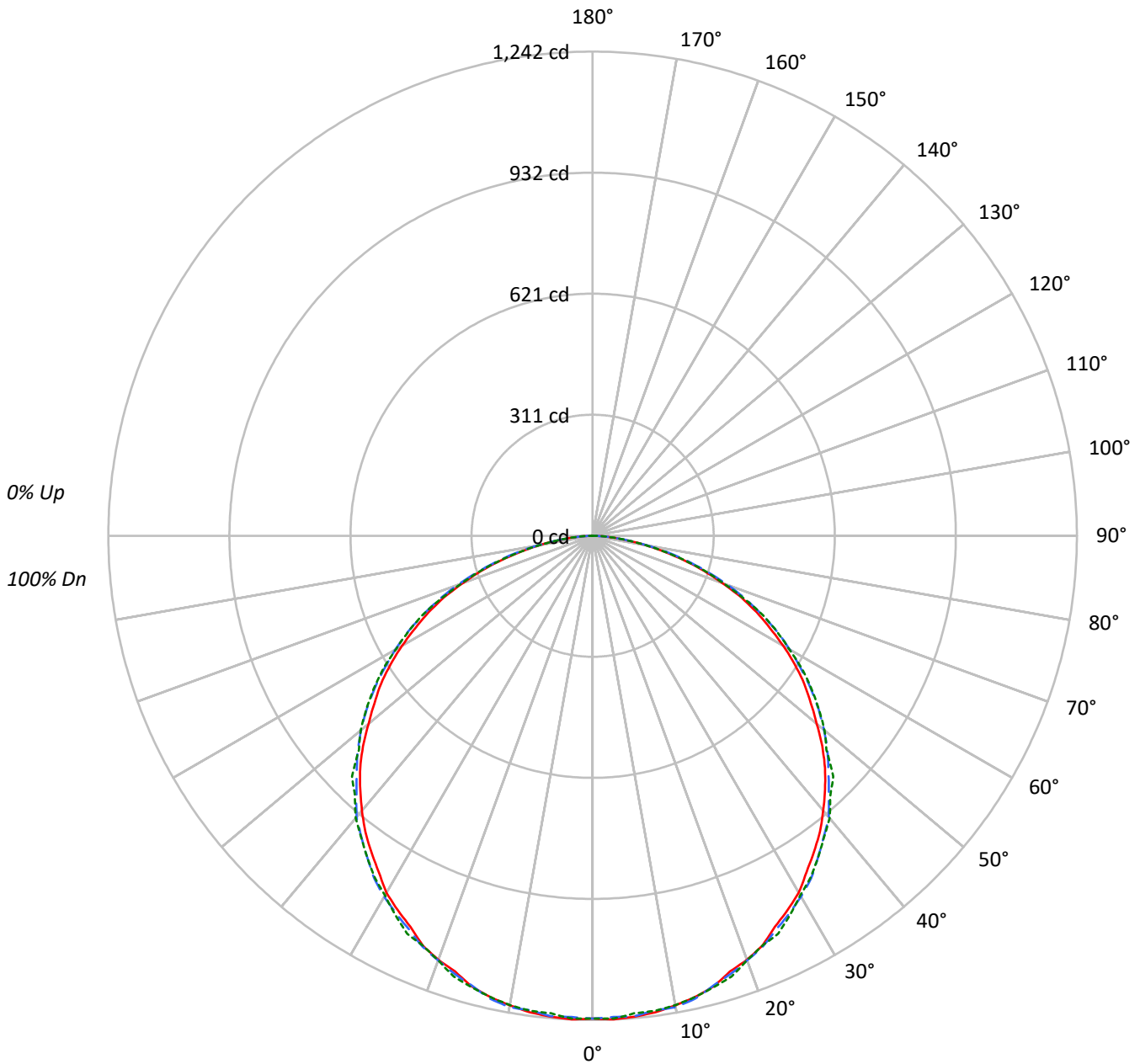
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3657.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.2  
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4053	4053	4053
5°	4066	4063	4039
10°	4063	4080	4061
15°	4055	4048	4061
20°	4030	4036	4034
25°	3995	4023	4066
30°	3995	4039	4024
35°	3953	4025	4025
40°	3931	4024	4038
45°	3901	3958	4039
50°	3819	3944	3953
55°	3782	3896	3912
60°	3694	3822	3811
65°	3590	3712	3734
70°	3372	3538	3420
75°	3056	3197	3119
80°	2583	2657	2583
85°	1765	1870	1952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.2
10°-20°	338.0	9.2
20°-30°	514.1	14.1
30°-40°	627.9	17.2
40°-50°	659.8	18.0
50°-60°	606.1	16.6
60°-70°	469.1	12.8
70°-80°	263.1	7.2
80°-90°	61.7	1.7
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°	969.3	26.5
0°-40°	1597.2	43.7
0°-60°	2863.1	78.3
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1238	1224	1237	1234	1230	118
15°	1197	1198	1195	1201	1199	337
25°	1106	1109	1114	1120	1126	512
35°	990	995	1008	1010	1008	620
45°	843	848	855	860	873	649
55°	663	674	683	681	686	591
65°	464	470	479	479	482	457
75°	242	251	253	244	247	257
85°	47	48	50	50	52	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1238.5	1238.5	1238.5	1238.5	1238.5
2.5°	1241.9	1236.3	1235.7	1238.0	1239.6
5°	1238.0	1224.5	1236.8	1234.1	1229.6
7.5°	1232.9	1213.9	1227.3	1229.0	1229.0
10°	1222.9	1214.5	1227.9	1224.5	1222.3
12.5°	1212.2	1211.7	1216.2	1214.5	1212.2
15°	1197.1	1197.7	1194.9	1201.0	1198.8
17.5°	1172.0	1180.3	1178.1	1185.4	1185.4
20°	1157.4	1152.9	1159.1	1162.4	1158.5
22.5°	1137.8	1128.9	1140.6	1142.9	1137.8
25°	1106.5	1109.3	1114.3	1119.9	1126.1
27.5°	1082.5	1084.1	1092.0	1090.8	1096.4
30°	1057.3	1058.4	1069.0	1074.1	1065.1
32.5°	1021.5	1033.8	1042.7	1040.5	1039.9
35°	989.6	994.6	1007.5	1010.3	1007.5
37.5°	957.7	961.1	973.9	973.4	975.0
40°	920.2	926.9	942.0	937.0	945.4
42.5°	882.2	890.0	896.2	901.8	902.3
45°	843.0	847.5	855.3	860.4	872.7
47.5°	798.8	809.5	817.3	821.2	813.4
50°	750.2	768.1	774.8	778.7	776.5
52.5°	705.4	724.4	730.0	730.0	731.7
55°	662.9	673.5	683.0	680.8	685.8
57.5°	614.8	626.5	632.7	635.5	637.7
60°	564.4	580.7	584.0	582.9	582.3
62.5°	512.4	527.0	533.7	529.2	533.1
65°	463.7	469.9	479.4	479.4	482.2
67.5°	412.3	419.0	425.1	424.0	419.6
70°	352.4	361.9	369.8	362.5	357.5
72.5°	299.8	307.7	308.8	303.2	303.8
75°	241.7	251.2	252.9	244.5	246.7
77.5°	186.8	196.9	198.6	189.6	189.6
80°	137.1	143.8	141.0	137.1	137.1
82.5°	88.9	93.4	90.6	92.9	90.6
85°	47.0	48.1	49.8	50.3	52.0
87.5°	15.7	17.3	16.8	15.1	14.0
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)