

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: P709964

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

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709964  
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-LOW  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

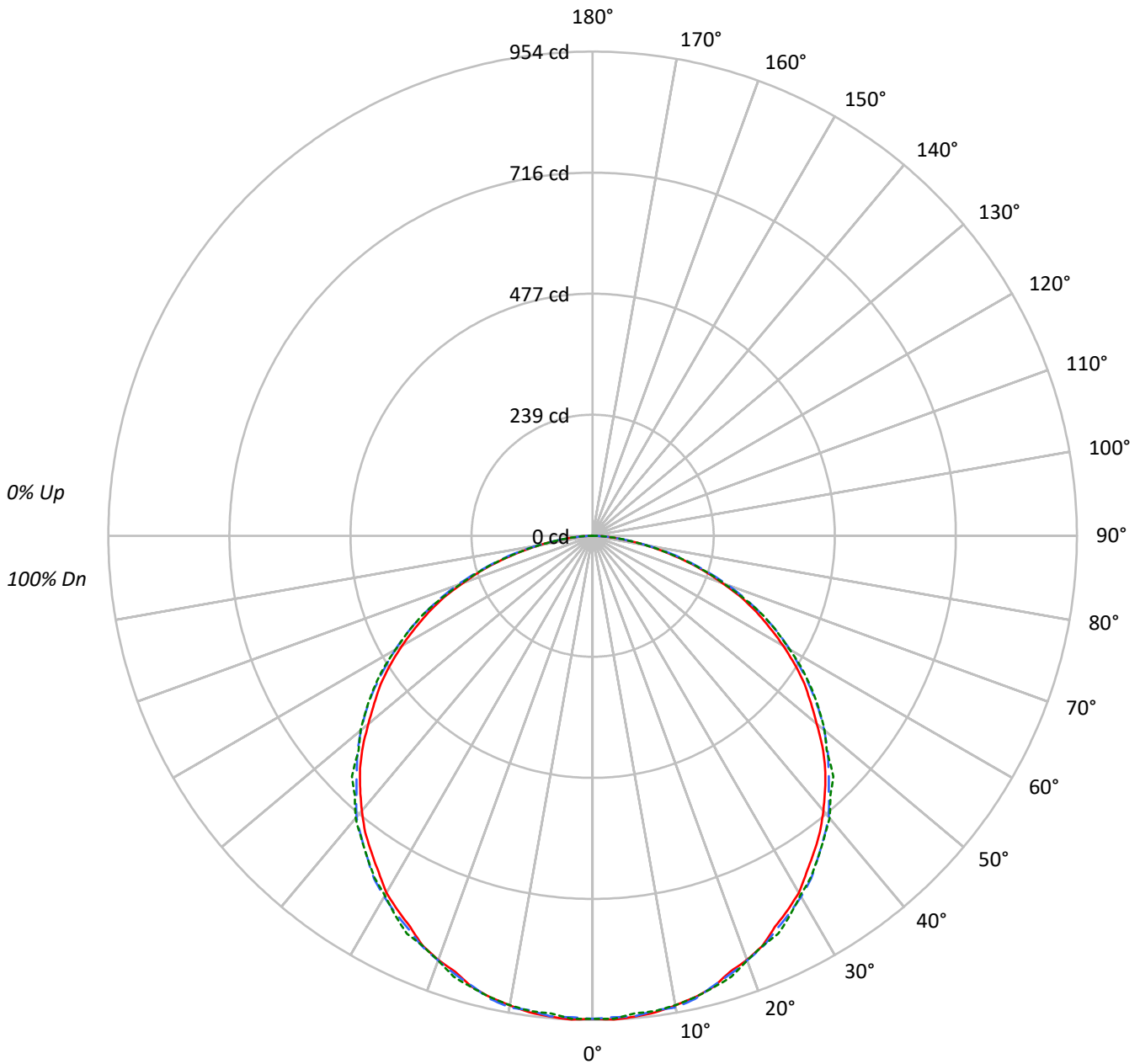
Lumens per Lamp: N/A  
Luminaire Lumens: 2810.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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°	3114	3114	3114
5°	3124	3122	3103
10°	3122	3135	3121
15°	3116	3110	3121
20°	3097	3101	3100
25°	3070	3091	3124
30°	3070	3104	3092
35°	3038	3092	3092
40°	3020	3092	3103
45°	2998	3041	3103
50°	2934	3030	3037
55°	2906	2994	3006
60°	2838	2937	2929
65°	2759	2852	2869
70°	2591	2718	2628
75°	2348	2457	2397
80°	1984	2041	1984
85°	1355	1438	1502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	3.2
10°-20°	259.7	9.2
20°-30°	395.0	14.1
30°-40°	482.5	17.2
40°-50°	507.0	18.0
50°-60°	465.7	16.6
60°-70°	360.5	12.8
70°-80°	202.1	7.2
80°-90°	47.4	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°	744.8	26.5
0°-40°	1227.3	43.7
0°-60°	2200.0	78.3
0°-90°	2810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	951	941	950	948	945	90
15°	920	920	918	923	921	259
25°	850	852	856	860	865	393
35°	760	764	774	776	774	476
45°	648	651	657	661	671	498
55°	509	518	525	523	527	454
65°	356	361	368	368	370	351
75°	186	193	194	188	190	197
85°	36	37	38	39	40	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	951.7	951.7	951.7	951.7	951.7
2.5°	954.2	950.0	949.5	951.2	952.5
5°	951.2	940.9	950.4	948.2	944.8
7.5°	947.4	932.8	943.1	944.4	944.4
10°	939.6	933.2	943.5	940.9	939.2
12.5°	931.5	931.0	934.5	933.2	931.5
15°	919.9	920.3	918.1	922.9	921.2
17.5°	900.5	907.0	905.2	910.8	910.8
20°	889.3	885.9	890.6	893.2	890.2
22.5°	874.3	867.4	876.4	878.2	874.3
25°	850.2	852.4	856.2	860.5	865.3
27.5°	831.7	833.0	839.1	838.2	842.5
30°	812.4	813.3	821.4	825.3	818.4
32.5°	784.9	794.3	801.2	799.5	799.1
35°	760.4	764.3	774.1	776.3	774.1
37.5°	735.9	738.5	748.4	747.9	749.2
40°	707.1	712.2	723.9	720.0	726.4
42.5°	677.9	683.9	688.6	692.9	693.3
45°	647.8	651.2	657.2	661.1	670.6
47.5°	613.8	622.0	628.0	631.0	625.0
50°	576.4	590.2	595.3	598.3	596.6
52.5°	542.0	556.6	560.9	560.9	562.2
55°	509.4	517.5	524.8	523.1	527.0
57.5°	472.4	481.4	486.2	488.3	490.0
60°	433.7	446.2	448.8	447.9	447.5
62.5°	393.7	404.9	410.1	406.6	409.6
65°	356.3	361.1	368.4	368.4	370.5
67.5°	316.8	322.0	326.7	325.8	322.4
70°	270.8	278.1	284.1	278.5	274.7
72.5°	230.4	236.4	237.3	233.0	233.4
75°	185.7	193.0	194.3	187.8	189.6
77.5°	143.6	151.3	152.6	145.7	145.7
80°	105.3	110.5	108.3	105.3	105.3
82.5°	68.3	71.8	69.6	71.4	69.6
85°	36.1	37.0	38.3	38.7	40.0
87.5°	12.0	13.3	12.9	11.6	10.7
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)