

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: P709970

Luminaire Tested: **14ARS-L3C3-NUV-5000K-LOW**

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709970  
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-5000K-LOW  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

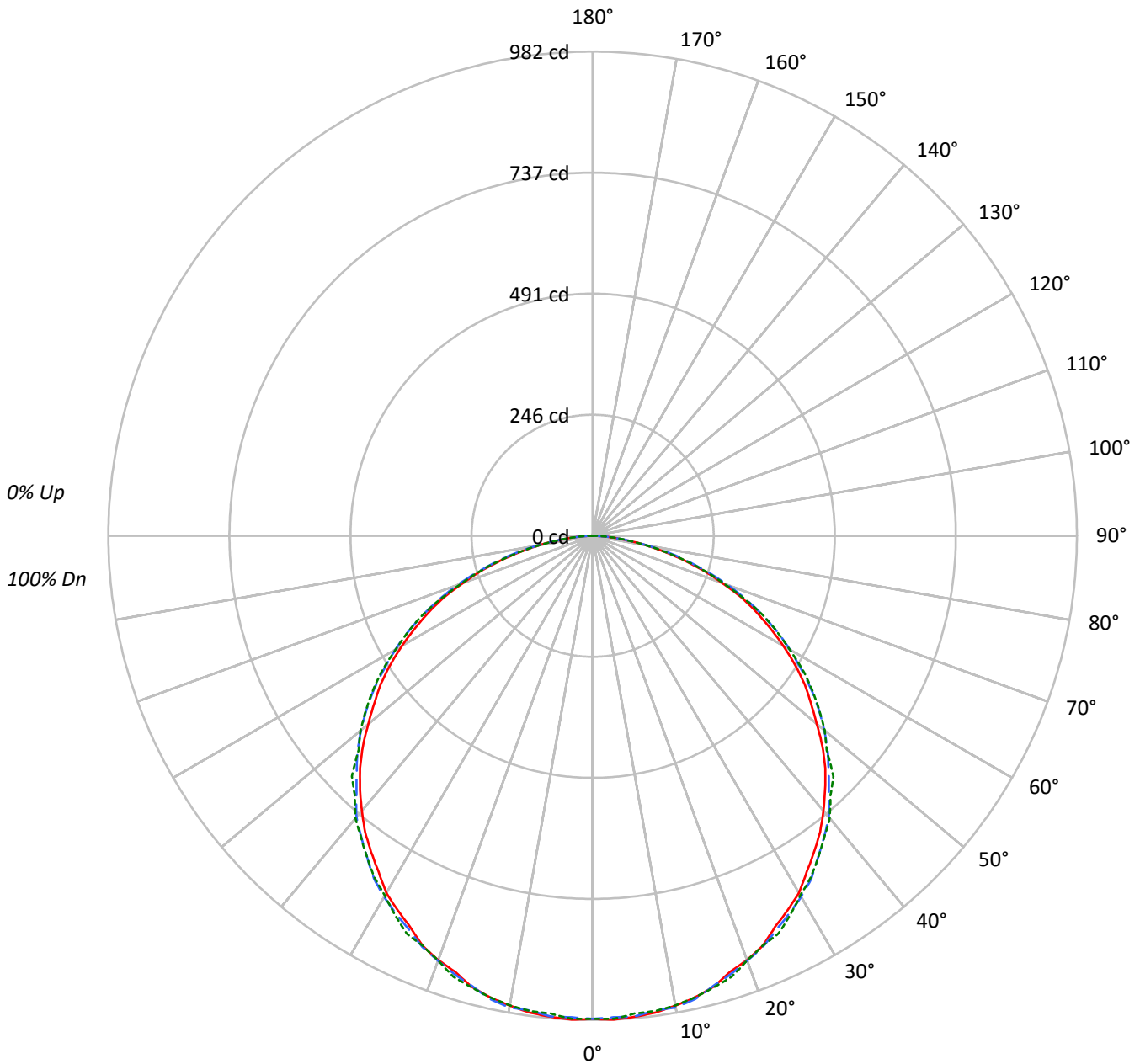
Lumens per Lamp: N/A  
Luminaire Lumens: 2893.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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°	3206	3206	3206
5°	3217	3214	3195
10°	3214	3228	3213
15°	3208	3202	3213
20°	3188	3193	3191
25°	3160	3183	3216
30°	3160	3195	3184
35°	3127	3184	3184
40°	3110	3183	3195
45°	3086	3131	3195
50°	3021	3120	3127
55°	2992	3082	3095
60°	2922	3024	3015
65°	2841	2937	2954
70°	2667	2798	2706
75°	2417	2529	2468
80°	2043	2101	2043
85°	1397	1479	1547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	3.2
10°-20°	267.4	9.2
20°-30°	406.7	14.1
30°-40°	496.7	17.2
40°-50°	522.0	18.0
50°-60°	479.5	16.6
60°-70°	371.1	12.8
70°-80°	208.1	7.2
80°-90°	48.8	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°	766.8	26.5
0°-40°	1263.5	43.7
0°-60°	2265.0	78.3
0°-90°	2893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	979	969	978	976	973	93
15°	947	948	945	950	948	267
25°	875	878	882	886	891	405
35°	783	787	797	799	797	490
45°	667	670	677	681	690	513
55°	524	533	540	539	543	467
65°	367	372	379	379	382	362
75°	191	199	200	193	195	203
85°	37	38	39	40	41	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	979.8	979.8	979.8	979.8	979.8
2.5°	982.4	978.0	977.6	979.3	980.7
5°	979.3	968.7	978.5	976.2	972.7
7.5°	975.4	960.3	970.9	972.3	972.3
10°	967.4	960.8	971.4	968.7	966.9
12.5°	959.0	958.5	962.1	960.8	959.0
15°	947.0	947.5	945.3	950.1	948.4
17.5°	927.1	933.8	932.0	937.7	937.7
20°	915.6	912.1	916.9	919.6	916.5
22.5°	900.1	893.0	902.3	904.1	900.1
25°	875.3	877.6	881.5	886.0	890.8
27.5°	856.3	857.6	863.8	863.0	867.4
30°	836.4	837.3	845.7	849.7	842.6
32.5°	808.1	817.8	824.9	823.1	822.7
35°	782.9	786.8	797.0	799.2	797.0
37.5°	757.6	760.3	770.5	770.0	771.3
40°	728.0	733.3	745.2	741.3	747.9
42.5°	697.9	704.1	708.9	713.4	713.8
45°	666.9	670.4	676.6	680.6	690.4
47.5°	631.9	640.4	646.5	649.6	643.5
50°	593.4	607.6	612.9	616.0	614.2
52.5°	558.0	573.1	577.5	577.5	578.8
55°	524.4	532.8	540.3	538.6	542.6
57.5°	486.4	495.6	500.5	502.7	504.5
60°	446.5	459.4	462.0	461.1	460.7
62.5°	405.4	416.9	422.2	418.6	421.7
65°	366.9	371.7	379.3	379.3	381.5
67.5°	326.2	331.5	336.3	335.4	331.9
70°	278.8	286.3	292.5	286.8	282.8
72.5°	237.2	243.4	244.3	239.9	240.3
75°	191.2	198.7	200.0	193.4	195.2
77.5°	147.8	155.8	157.1	150.0	150.0
80°	108.4	113.7	111.5	108.4	108.4
82.5°	70.4	73.9	71.7	73.5	71.7
85°	37.2	38.1	39.4	39.8	41.2
87.5°	12.4	13.7	13.3	11.9	11.1
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)