

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: P709966

Luminaire Tested: **14ARS-L3C3-NUV-4000K-HI**

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709966  
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-4000K-HI  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

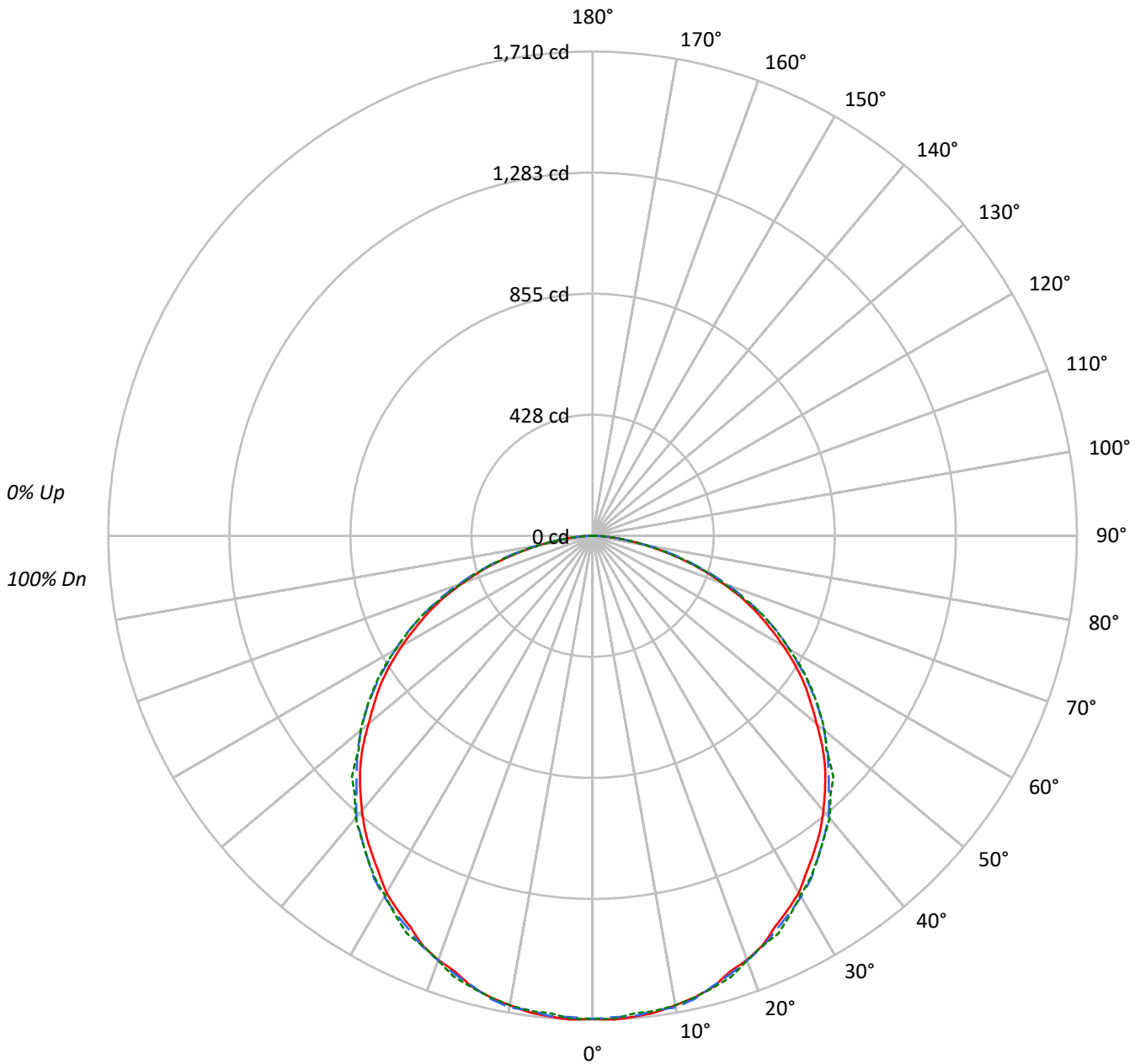
Lumens per Lamp: N/A  
Luminaire Lumens: 5036.0 lumens  
Efficiency: N/A  
Efficacy: 148.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 34  
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°	5581	5581	5581
5°	5600	5595	5562
10°	5595	5618	5593
15°	5585	5574	5593
20°	5550	5558	5556
25°	5502	5540	5599
30°	5501	5562	5542
35°	5444	5542	5542
40°	5413	5541	5561
45°	5372	5451	5561
50°	5259	5431	5443
55°	5208	5366	5388
60°	5087	5263	5248
65°	4944	5112	5141
70°	4643	4872	4710
75°	4208	4402	4295
80°	3556	3658	3556
85°	2429	2576	2688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	3.2
10°-20°	465.4	9.2
20°-30°	707.9	14.1
30°-40°	864.7	17.2
40°-50°	908.6	18.0
50°-60°	834.7	16.6
60°-70°	646.0	12.8
70°-80°	362.2	7.2
80°-90°	85.0	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°	1334.8	26.5
0°-40°	2199.5	43.7
0°-60°	3942.8	78.3
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1705	1686	1703	1699	1693	162
15°	1649	1649	1646	1654	1651	464
25°	1524	1528	1534	1542	1551	705
35°	1363	1370	1387	1391	1387	854
45°	1161	1167	1178	1185	1202	893
55°	913	928	941	938	944	813
65°	639	647	660	660	664	629
75°	333	346	348	337	340	353
85°	65	66	69	69	72	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1705.6	1705.6	1705.6	1705.6	1705.6
2.5°	1710.2	1702.5	1701.7	1704.8	1707.1
5°	1704.8	1686.3	1703.2	1699.4	1693.2
7.5°	1697.9	1671.7	1690.1	1692.5	1692.5
10°	1684.0	1672.4	1690.9	1686.3	1683.2
12.5°	1669.4	1668.6	1674.7	1672.4	1669.4
15°	1648.6	1649.3	1645.5	1653.9	1650.9
17.5°	1613.9	1625.4	1622.4	1632.4	1632.4
20°	1593.9	1587.7	1596.2	1600.8	1595.4
22.5°	1566.9	1554.6	1570.7	1573.8	1566.9
25°	1523.8	1527.6	1534.5	1542.2	1550.7
27.5°	1490.6	1492.9	1503.7	1502.2	1509.9
30°	1456.0	1457.5	1472.1	1479.1	1466.7
32.5°	1406.7	1423.6	1435.9	1432.9	1432.1
35°	1362.8	1369.7	1387.4	1391.3	1387.4
37.5°	1318.8	1323.5	1341.2	1340.4	1342.7
40°	1267.2	1276.5	1297.3	1290.3	1301.9
42.5°	1214.8	1225.6	1234.1	1241.8	1242.6
45°	1160.9	1167.1	1177.9	1184.8	1201.7
47.5°	1100.1	1114.7	1125.5	1130.9	1120.1
50°	1033.0	1057.7	1066.9	1072.3	1069.2
52.5°	971.4	997.6	1005.3	1005.3	1007.6
55°	912.9	927.5	940.6	937.5	944.5
57.5°	846.6	862.8	871.3	875.1	878.2
60°	777.3	799.6	804.2	802.7	801.9
62.5°	705.6	725.7	734.9	728.8	734.1
65°	638.6	647.1	660.2	660.2	664.0
67.5°	567.7	577.0	585.5	583.9	577.8
70°	485.3	498.4	509.2	499.2	492.3
72.5°	412.9	423.7	425.2	417.5	418.3
75°	332.8	345.9	348.2	336.6	339.7
77.5°	257.3	271.2	273.5	261.1	261.1
80°	188.7	198.0	194.1	188.7	188.7
82.5°	122.5	128.6	124.8	127.9	124.8
85°	64.7	66.3	68.6	69.3	71.6
87.5°	21.6	23.9	23.1	20.8	19.3
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)