

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: P709589

Luminaire Tested: **14ARS-L3C3-HO-UNV-3500K-LOW**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ARS-L3C3-HO-UNV-3500K-LOW  
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

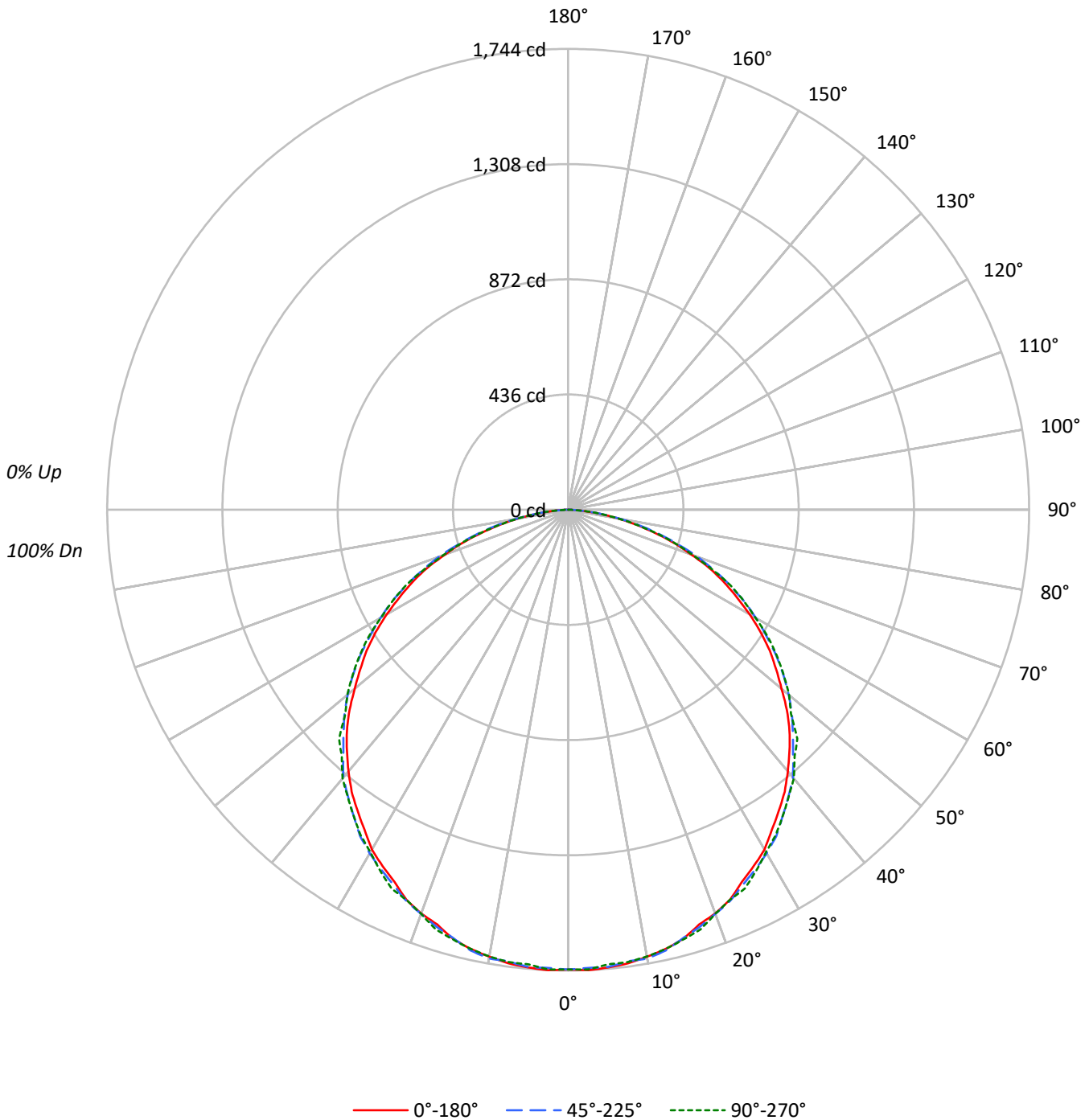
Lumens per Lamp: N/A  
Luminaire Lumens: 5137.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.9  
Input Voltage (V): NR  
Input Current (Ain): 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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	5693	5693	5693
5°	5712	5707	5673
10°	5708	5731	5705
15°	5697	5686	5705
20°	5661	5670	5667
25°	5612	5651	5711
30°	5612	5674	5653
35°	5553	5653	5653
40°	5521	5653	5673
45°	5480	5560	5673
50°	5365	5540	5552
55°	5312	5474	5496
60°	5189	5369	5353
65°	5044	5214	5245
70°	4737	4969	4804
75°	4292	4491	4381
80°	3627	3731	3627
85°	2478	2624	2744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	3.2
10°-20°	474.8	9.2
20°-30°	722.1	14.1
30°-40°	882.0	17.2
40°-50°	926.8	18.0
50°-60°	851.4	16.6
60°-70°	659.0	12.8
70°-80°	369.5	7.2
80°-90°	86.7	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°	1361.6	26.5
0°-40°	2243.6	43.7
0°-60°	4021.9	78.3
0°-90°	5137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1739	1720	1737	1734	1727	165
15°	1682	1682	1678	1687	1684	474
25°	1554	1558	1565	1573	1582	719
35°	1390	1397	1415	1419	1415	871
45°	1184	1190	1202	1209	1226	911
55°	931	946	960	956	963	830
65°	651	660	673	673	677	642
75°	340	353	355	343	346	360
85°	66	68	70	71	73	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1739.8	1739.8	1739.8	1739.8	1739.8
2.5°	1744.5	1736.6	1735.8	1739.0	1741.3
5°	1739.0	1720.1	1737.4	1733.5	1727.2
7.5°	1731.9	1705.2	1724.0	1726.4	1726.4
10°	1717.8	1706.0	1724.8	1720.1	1717.0
12.5°	1702.8	1702.0	1708.3	1706.0	1702.8
15°	1681.6	1682.4	1678.5	1687.1	1684.0
17.5°	1646.3	1658.0	1654.9	1665.1	1665.1
20°	1625.8	1619.5	1628.2	1632.9	1627.4
22.5°	1598.3	1585.7	1602.2	1605.4	1598.3
25°	1554.3	1558.2	1565.3	1573.2	1581.8
27.5°	1520.5	1522.9	1533.9	1532.3	1540.2
30°	1485.2	1486.7	1501.7	1508.7	1496.2
32.5°	1434.9	1452.2	1464.7	1461.6	1460.8
35°	1390.1	1397.2	1415.2	1419.2	1415.2
37.5°	1345.3	1350.0	1368.1	1367.3	1369.7
40°	1292.6	1302.1	1323.3	1316.2	1328.0
42.5°	1239.2	1250.2	1258.9	1266.7	1267.5
45°	1184.2	1190.5	1201.5	1208.6	1225.8
47.5°	1122.1	1137.1	1148.1	1153.6	1142.6
50°	1053.8	1078.9	1088.3	1093.8	1090.7
52.5°	990.9	1017.6	1025.5	1025.5	1027.8
55°	931.2	946.1	959.5	956.3	963.4
57.5°	863.6	880.1	888.7	892.7	895.8
60°	792.9	815.7	820.4	818.8	818.0
62.5°	719.8	740.2	749.7	743.4	748.9
65°	651.4	660.1	673.4	673.4	677.4
67.5°	579.1	588.6	597.2	595.6	589.4
70°	495.1	508.4	519.4	509.2	502.1
72.5°	421.2	432.2	433.8	425.9	426.7
75°	339.5	352.8	355.2	343.4	346.5
77.5°	262.5	276.6	279.0	266.4	266.4
80°	192.5	202.0	198.0	192.5	192.5
82.5°	124.9	131.2	127.3	130.4	127.3
85°	66.0	67.6	69.9	70.7	73.1
87.5°	22.0	24.4	23.6	21.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)