

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: P721819

Luminaire Tested: **22ARS-L3C3-HO-UNV-3500K-LOW**

Issue Date: 10/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P721819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ARS-L3C3-HO-UNV-3500K-LOW  
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

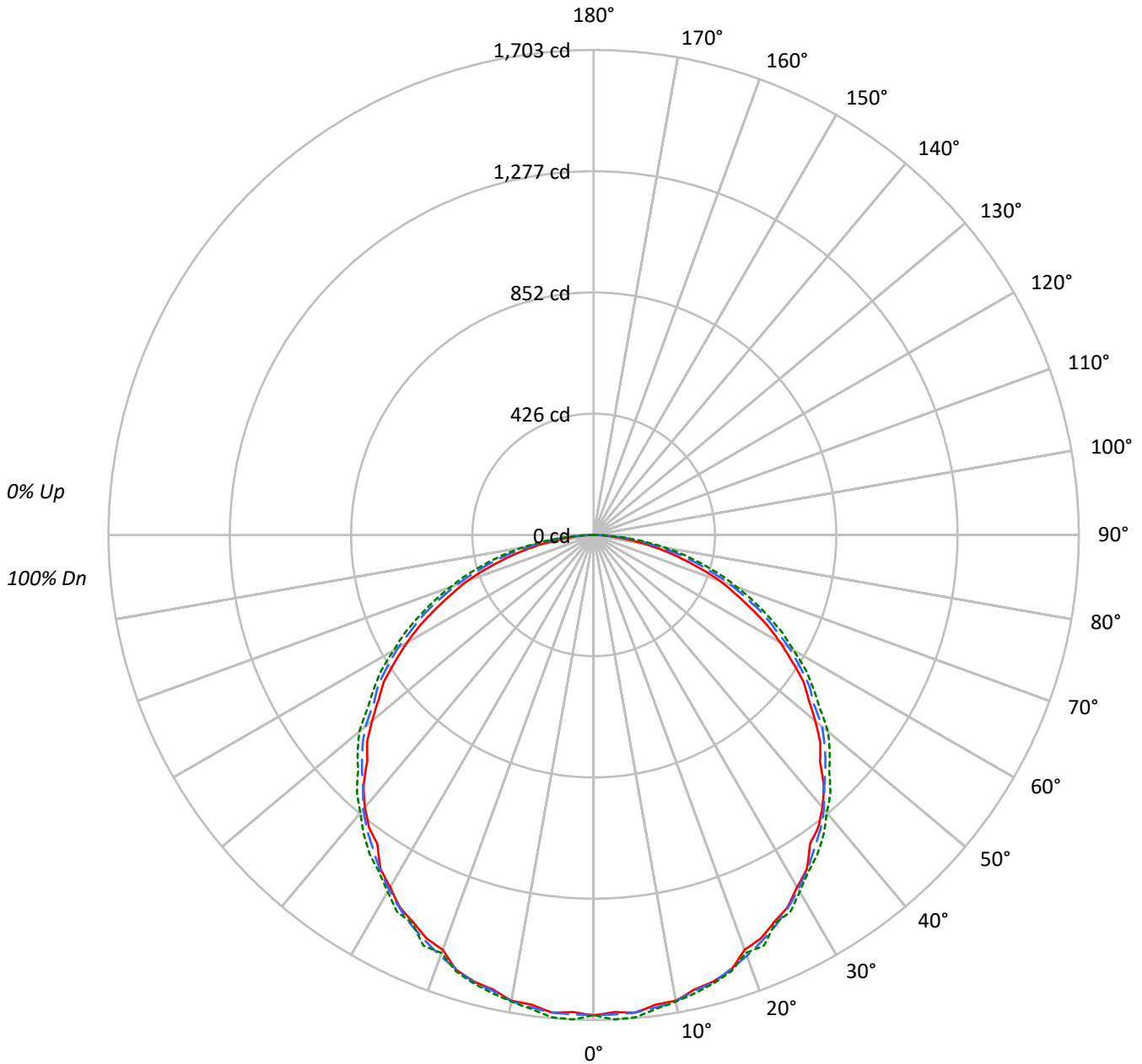
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5001.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.4  
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

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

	0°	45°	90°
0°	4678	4678	4678
5°	4687	4687	4733
10°	4677	4682	4687
15°	4661	4671	4680
20°	4576	4643	4609
25°	4590	4630	4605
30°	4574	4600	4631
35°	4483	4566	4637
40°	4523	4553	4612
45°	4409	4511	4588
50°	4380	4513	4632
55°	4350	4468	4554
60°	4196	4394	4494
65°	3993	4302	4441
70°	3825	4155	4340
75°	3416	3922	4218
80°	2910	3586	4027
85°	1967	3157	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	3.2
10°-20°	458.7	9.2
20°-30°	697.4	13.9
30°-40°	845.7	16.9
40°-50°	888.9	17.8
50°-60°	819.5	16.4
60°-70°	641.3	12.8
70°-80°	383.1	7.7
80°-90°	106.5	2.1
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°	1316.1	26.3
0°-40°	2161.8	43.2
0°-60°	3870.1	77.4
0°-90°	5001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1672	1684	1693	1700	159
15°	1623	1617	1627	1632	1630	457
25°	1500	1508	1513	1529	1505	692
35°	1324	1344	1348	1358	1370	838
45°	1124	1135	1150	1166	1170	875
55°	900	901	924	935	942	797
65°	608	630	656	667	677	605
75°	319	340	366	387	394	340
85°	62	76	99	107	104	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1686.8	1686.8	1686.8	1686.8	1686.8
2.5°	1677.1	1686.8	1685.2	1696.6	1703.1
5°	1683.6	1672.2	1683.6	1693.3	1699.8
7.5°	1664.1	1667.3	1673.8	1677.1	1678.7
10°	1660.8	1654.3	1662.4	1672.2	1664.1
12.5°	1634.8	1631.5	1639.7	1662.4	1647.8
15°	1623.4	1616.9	1626.6	1631.5	1629.9
17.5°	1602.2	1599.0	1599.0	1608.8	1607.1
20°	1550.2	1571.3	1573.0	1592.5	1561.6
22.5°	1533.9	1542.1	1543.7	1558.3	1561.6
25°	1499.8	1507.9	1512.8	1529.0	1504.6
27.5°	1473.7	1468.9	1477.0	1480.2	1493.3
30°	1428.2	1424.9	1436.3	1446.1	1446.1
32.5°	1392.4	1390.8	1395.7	1402.2	1402.2
35°	1324.1	1343.6	1348.5	1358.3	1369.6
37.5°	1294.8	1289.9	1306.2	1320.8	1325.7
40°	1249.3	1242.8	1257.4	1263.9	1273.7
42.5°	1195.6	1195.6	1198.8	1223.2	1229.7
45°	1124.0	1135.4	1150.0	1166.3	1169.6
47.5°	1078.5	1073.6	1101.2	1111.0	1124.0
50°	1015.0	1023.2	1045.9	1052.4	1073.6
52.5°	951.6	959.7	972.7	993.9	1000.4
55°	899.5	901.2	923.9	935.3	941.8
57.5°	824.7	832.8	857.2	870.3	883.3
60°	756.4	761.3	792.2	808.4	810.1
62.5°	686.4	699.5	719.0	740.1	748.3
65°	608.4	629.5	655.5	666.9	676.7
67.5°	536.8	551.4	580.7	603.5	606.7
70°	471.7	483.1	512.4	530.3	535.2
72.5°	393.6	411.5	435.9	462.0	466.8
75°	318.8	340.0	366.0	387.1	393.6
77.5°	248.9	268.4	296.0	313.9	325.3
80°	182.2	195.2	224.5	245.6	252.1
82.5°	117.1	133.4	161.0	182.2	182.2
85°	61.8	76.5	99.2	107.4	104.1
87.5°	21.1	29.3	34.2	39.0	40.7
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)