

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: P721825

Luminaire Tested: **22ARS-L3C3-HO-UNV-5000K-LOW**

Issue Date: 10/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P721825  
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-5000K-LOW  
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

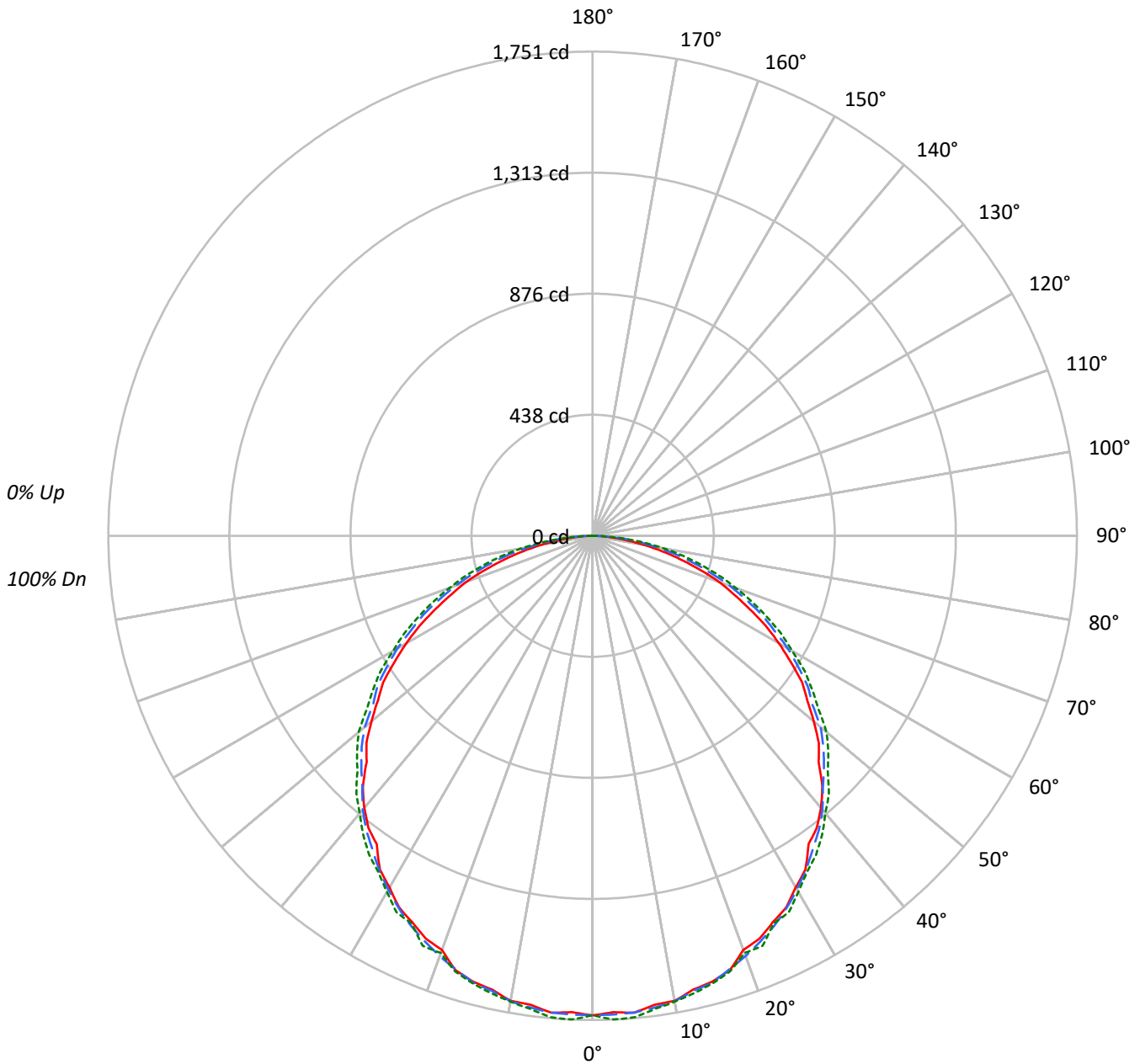
Lumens per Lamp: N/A  
Luminaire Lumens: 5142.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

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°	4810	4810	4810
5°	4819	4819	4866
10°	4809	4814	4819
15°	4793	4802	4812
20°	4704	4774	4739
25°	4719	4760	4735
30°	4703	4730	4762
35°	4610	4695	4768
40°	4651	4681	4742
45°	4533	4638	4717
50°	4503	4640	4763
55°	4472	4594	4683
60°	4314	4518	4620
65°	4105	4423	4566
70°	3933	4272	4463
75°	3513	4033	4337
80°	2992	3686	4140
85°	2024	3246	3405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	3.2
10°-20°	471.6	9.2
20°-30°	717.1	13.9
30°-40°	869.5	16.9
40°-50°	913.9	17.8
50°-60°	842.6	16.4
60°-70°	659.3	12.8
70°-80°	393.9	7.7
80°-90°	109.5	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°	1353.2	26.3
0°-40°	2222.7	43.2
0°-60°	3979.2	77.4
0°-90°	5142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5142.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1731	1719	1731	1741	1748	164
15°	1669	1662	1672	1678	1676	470
25°	1542	1550	1555	1572	1547	712
35°	1361	1382	1386	1396	1408	862
45°	1156	1167	1182	1199	1202	899
55°	925	927	950	962	968	819
65°	626	647	674	686	696	622
75°	328	350	376	398	405	349
85°	64	79	102	110	107	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1734.4	1734.4	1734.4	1734.4	1734.4
2.5°	1724.4	1734.4	1732.7	1744.4	1751.1
5°	1731.0	1719.3	1731.0	1741.1	1747.8
7.5°	1711.0	1714.3	1721.0	1724.4	1726.0
10°	1707.6	1700.9	1709.3	1719.3	1711.0
12.5°	1680.9	1677.5	1685.9	1709.3	1694.3
15°	1669.2	1662.5	1672.5	1677.5	1675.9
17.5°	1647.4	1644.1	1644.1	1654.1	1652.4
20°	1593.9	1615.6	1617.3	1637.4	1605.6
22.5°	1577.2	1585.5	1587.2	1602.3	1605.6
25°	1542.1	1550.4	1555.4	1572.2	1547.1
27.5°	1515.3	1510.3	1518.6	1522.0	1535.4
30°	1468.5	1465.1	1476.8	1486.9	1486.9
32.5°	1431.7	1430.0	1435.0	1441.7	1441.7
35°	1361.4	1381.5	1386.5	1396.5	1408.3
37.5°	1331.3	1326.3	1343.0	1358.1	1363.1
40°	1284.5	1277.8	1292.9	1299.5	1309.6
42.5°	1229.3	1229.3	1232.6	1257.7	1264.4
45°	1155.7	1167.4	1182.5	1199.2	1202.5
47.5°	1108.9	1103.9	1132.3	1142.3	1155.7
50°	1043.6	1052.0	1075.4	1082.1	1103.9
52.5°	978.4	986.8	1000.2	1021.9	1028.6
55°	924.9	926.6	950.0	961.7	968.4
57.5°	848.0	856.3	881.4	894.8	908.2
60°	777.7	782.7	814.5	831.2	832.9
62.5°	705.8	719.2	739.2	761.0	769.4
65°	625.5	647.3	674.0	685.7	695.8
67.5°	551.9	567.0	597.1	620.5	623.8
70°	485.0	496.7	526.8	545.2	550.3
72.5°	404.7	423.1	448.2	475.0	480.0
75°	327.8	349.6	376.3	398.1	404.7
77.5°	255.9	276.0	304.4	322.8	334.5
80°	187.3	200.7	230.8	252.5	259.2
82.5°	120.4	137.1	165.6	187.3	187.3
85°	63.6	78.6	102.0	110.4	107.0
87.5°	21.7	30.1	35.1	40.1	41.8
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)