

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: P721823

Luminaire Tested: **22ARS-L3C3-HO-UNV-4000K-MID**

Issue Date: 10/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P721823  
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-4000K-MID  
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

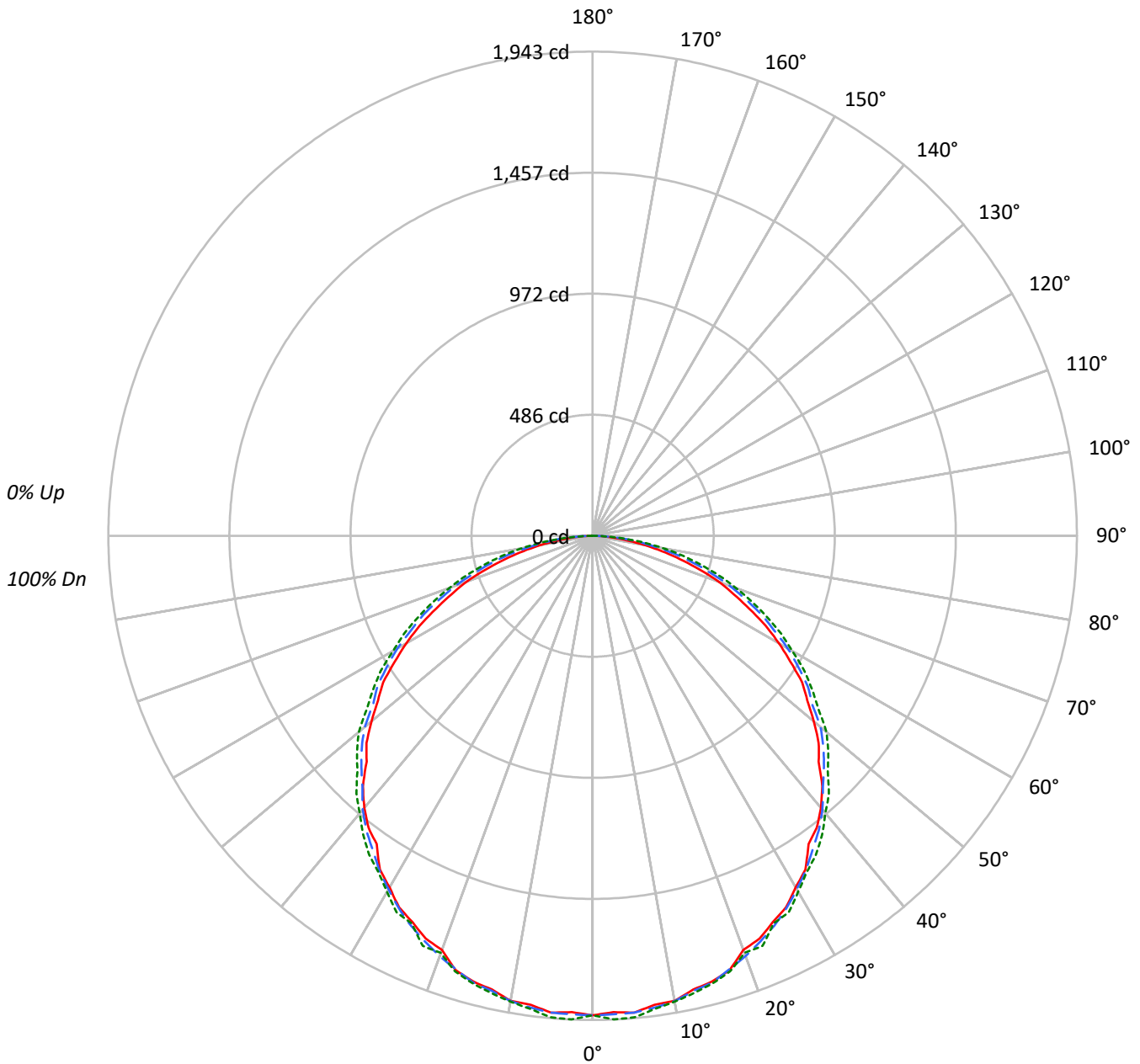
Lumens per Lamp: N/A  
Luminaire Lumens: 5705.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.7  
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	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°	5337	5337	5337
5°	5347	5347	5399
10°	5336	5341	5346
15°	5318	5328	5339
20°	5220	5296	5258
25°	5236	5281	5253
30°	5218	5248	5283
35°	5114	5209	5290
40°	5160	5193	5261
45°	5029	5146	5233
50°	4996	5149	5284
55°	4962	5097	5195
60°	4787	5013	5126
65°	4555	4908	5066
70°	4364	4740	4951
75°	3897	4474	4813
80°	3319	4091	4594
85°	2244	3602	3781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	3.2
10°-20°	523.2	9.2
20°-30°	795.6	13.9
30°-40°	964.7	16.9
40°-50°	1014.0	17.8
50°-60°	934.9	16.4
60°-70°	731.5	12.8
70°-80°	437.0	7.7
80°-90°	121.5	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°	1501.3	26.3
0°-40°	2466.1	43.2
0°-60°	4414.9	77.4
0°-90°	5705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1921	1908	1921	1932	1939	182
15°	1852	1844	1856	1861	1859	521
25°	1711	1720	1726	1744	1716	790
35°	1510	1533	1538	1550	1562	956
45°	1282	1295	1312	1330	1334	998
55°	1026	1028	1054	1067	1074	909
65°	694	718	748	761	772	690
75°	364	388	418	442	449	387
85°	70	87	113	122	119	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1924.3	1924.3	1924.3	1924.3	1924.3
2.5°	1913.2	1924.3	1922.4	1935.4	1942.8
5°	1920.6	1907.6	1920.6	1931.7	1939.1
7.5°	1898.3	1902.0	1909.4	1913.2	1915.0
10°	1894.6	1887.2	1896.5	1907.6	1898.3
12.5°	1864.9	1861.2	1870.5	1896.5	1879.8
15°	1851.9	1844.5	1855.6	1861.2	1859.3
17.5°	1827.8	1824.1	1824.1	1835.2	1833.4
20°	1768.4	1792.5	1794.4	1816.7	1781.4
22.5°	1749.9	1759.1	1761.0	1777.7	1781.4
25°	1710.9	1720.2	1725.7	1744.3	1716.5
27.5°	1681.2	1675.6	1684.9	1688.6	1703.5
30°	1629.2	1625.5	1638.5	1649.7	1649.7
32.5°	1588.4	1586.6	1592.1	1599.6	1599.6
35°	1510.5	1532.8	1538.3	1549.5	1562.4
37.5°	1477.1	1471.5	1490.1	1506.8	1512.3
40°	1425.1	1417.7	1434.4	1441.8	1453.0
42.5°	1363.9	1363.9	1367.6	1395.4	1402.9
45°	1282.2	1295.2	1311.9	1330.5	1334.2
47.5°	1230.3	1224.7	1256.3	1267.4	1282.2
50°	1157.9	1167.2	1193.2	1200.6	1224.7
52.5°	1085.5	1094.8	1109.7	1133.8	1141.2
55°	1026.2	1028.0	1054.0	1067.0	1074.4
57.5°	940.8	950.1	977.9	992.8	1007.6
60°	862.9	868.4	903.7	922.3	924.1
62.5°	783.1	797.9	820.2	844.3	853.6
65°	694.0	718.1	747.8	760.8	771.9
67.5°	612.4	629.1	662.5	688.4	692.2
70°	538.1	551.1	584.5	604.9	610.5
72.5°	449.1	469.5	497.3	527.0	532.6
75°	363.7	387.8	417.5	441.6	449.1
77.5°	283.9	306.2	337.7	358.1	371.1
80°	207.8	222.7	256.1	280.2	287.6
82.5°	133.6	152.2	183.7	207.8	207.8
85°	70.5	87.2	113.2	122.5	118.8
87.5°	24.1	33.4	39.0	44.5	46.4
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)