

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: P721820

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

Issue Date: 10/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P721820  
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-MID  
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 3500K AND, MID LUMEN  
OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

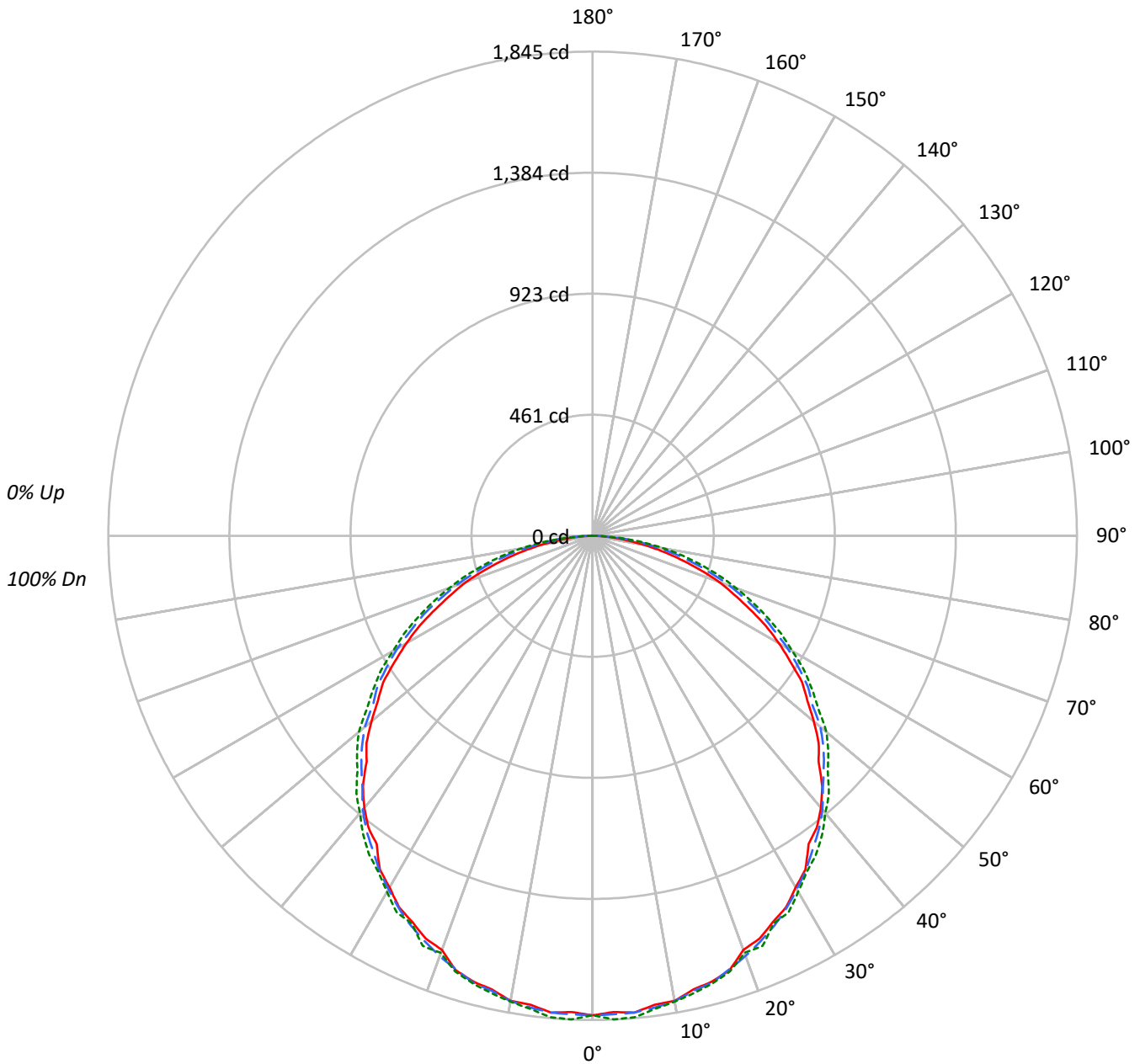
Lumens per Lamp: N/A  
Luminaire Lumens: 5417.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.3  
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°	5068	5068	5068
5°	5077	5077	5126
10°	5067	5071	5076
15°	5049	5059	5069
20°	4956	5029	4993
25°	4971	5015	4988
30°	4954	4983	5017
35°	4856	4946	5023
40°	4899	4931	4995
45°	4776	4886	4969
50°	4744	4888	5018
55°	4712	4839	4933
60°	4545	4760	4868
65°	4325	4660	4811
70°	4144	4501	4701
75°	3700	4248	4569
80°	3151	3884	4362
85°	2132	3421	3590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	3.2
10°-20°	496.8	9.2
20°-30°	755.4	13.9
30°-40°	916.0	16.9
40°-50°	962.8	17.8
50°-60°	887.7	16.4
60°-70°	694.6	12.8
70°-80°	414.9	7.7
80°-90°	115.4	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°	1425.5	26.3
0°-40°	2341.6	43.2
0°-60°	4192.1	77.4
0°-90°	5417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1824	1811	1824	1834	1841	173
15°	1758	1751	1762	1767	1766	495
25°	1624	1633	1639	1656	1630	750
35°	1434	1455	1461	1471	1484	908
45°	1218	1230	1246	1263	1267	947
55°	974	976	1001	1013	1020	863
65°	659	682	710	722	733	655
75°	345	368	396	419	426	368
85°	67	83	108	116	113	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1827.2	1827.2	1827.2	1827.2	1827.2
2.5°	1816.6	1827.2	1825.4	1837.7	1844.8
5°	1823.6	1811.3	1823.6	1834.2	1841.2
7.5°	1802.5	1806.0	1813.1	1816.6	1818.3
10°	1799.0	1791.9	1800.7	1811.3	1802.5
12.5°	1770.8	1767.2	1776.1	1800.7	1784.9
15°	1758.4	1751.4	1762.0	1767.2	1765.5
17.5°	1735.5	1732.0	1732.0	1742.6	1740.8
20°	1679.1	1702.1	1703.8	1725.0	1691.5
22.5°	1661.5	1670.3	1672.1	1688.0	1691.5
25°	1624.5	1633.3	1638.6	1656.2	1629.8
27.5°	1596.3	1591.0	1599.9	1603.4	1617.5
30°	1547.0	1543.5	1555.8	1566.4	1566.4
32.5°	1508.2	1506.5	1511.8	1518.8	1518.8
35°	1434.2	1455.4	1460.7	1471.2	1483.6
37.5°	1402.5	1397.2	1414.9	1430.7	1436.0
40°	1353.2	1346.1	1362.0	1369.0	1379.6
42.5°	1295.0	1295.0	1298.6	1325.0	1332.0
45°	1217.5	1229.8	1245.7	1263.3	1266.8
47.5°	1168.2	1162.9	1192.8	1203.4	1217.5
50°	1099.5	1108.3	1132.9	1140.0	1162.9
52.5°	1030.7	1039.6	1053.7	1076.6	1083.6
55°	974.4	976.1	1000.8	1013.1	1020.2
57.5°	893.3	902.1	928.6	942.6	956.7
60°	819.3	824.6	858.1	875.7	877.5
62.5°	743.5	757.6	778.8	801.7	810.5
65°	659.0	681.9	710.1	722.4	733.0
67.5°	581.4	597.3	629.0	653.7	657.2
70°	511.0	523.3	555.0	574.4	579.7
72.5°	426.4	445.8	472.2	500.4	505.7
75°	345.3	368.2	396.4	419.3	426.4
77.5°	269.6	290.7	320.7	340.1	352.4
80°	197.3	211.4	243.2	266.1	273.1
82.5°	126.9	144.5	174.4	197.3	197.3
85°	67.0	82.8	107.5	116.3	112.8
87.5°	22.9	31.7	37.0	42.3	44.0
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)