

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: P709614

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ARS-L3C3-HO-SQR-UNV-5000K-MID  
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

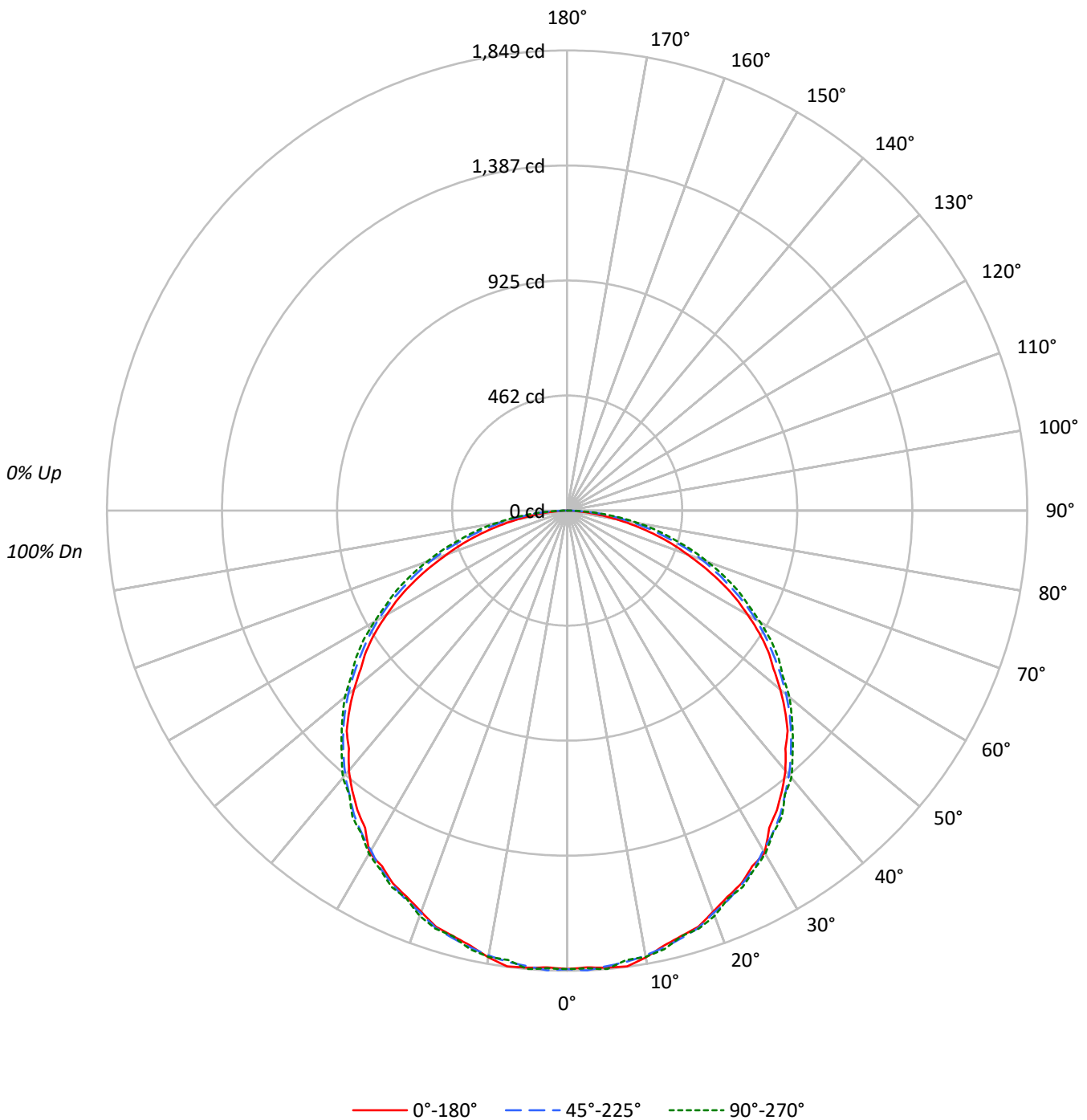
Lumens per Lamp: N/A  
Luminaire Lumens: 5525.0 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.5  
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				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	108	103	99	95	106	101	97	93	97	93	90		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	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

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

	0°	45°	90°
0°	5110	5110	5110
5°	5132	5115	5148
10°	5133	5112	5128
15°	5081	5106	5086
20°	5062	5077	5115
25°	5062	5075	5107
30°	5084	5051	5101
35°	4975	5053	5091
40°	4939	5023	5075
45°	4915	4992	5029
50°	4824	4957	5030
55°	4769	4897	5017
60°	4645	4854	4963
65°	4485	4749	4951
70°	4162	4668	4862
75°	3822	4399	4739
80°	3183	4140	4630
85°	2396	3838	4054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.8	3.2
10°-20°	501.4	9.1
20°-30°	763.8	13.8
30°-40°	929.8	16.8
40°-50°	979.1	17.7
50°-60°	905.0	16.4
60°-70°	713.9	12.9
70°-80°	431.9	7.8
80°-90°	125.4	2.3
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°	1440.0	26.1
0°-40°	2369.8	42.9
0°-60°	4253.9	77.0
0°-90°	5525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1843	1835	1837	1836	1849	176
15°	1770	1776	1778	1772	1771	501
25°	1654	1650	1658	1661	1669	762
35°	1469	1475	1492	1495	1504	920
45°	1253	1254	1273	1283	1282	962
55°	986	993	1013	1034	1038	878
65°	683	698	724	748	754	673
75°	357	380	410	440	442	377
85°	75	93	121	124	127	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1842.3	1842.3	1842.3	1842.3	1842.3
2.5°	1837.2	1846.6	1849.2	1841.5	1840.6
5°	1843.2	1834.6	1837.2	1835.5	1849.2
7.5°	1847.5	1833.8	1828.6	1824.4	1820.9
10°	1822.7	1816.7	1815.0	1814.1	1820.9
12.5°	1791.0	1796.1	1797.9	1795.3	1804.7
15°	1769.6	1776.5	1778.2	1772.2	1771.3
17.5°	1753.4	1748.2	1757.7	1748.2	1761.1
20°	1714.9	1719.2	1720.0	1728.6	1732.9
22.5°	1680.7	1692.7	1692.7	1698.6	1687.5
25°	1654.2	1649.9	1658.4	1661.0	1668.7
27.5°	1611.4	1608.8	1622.5	1613.1	1625.9
30°	1587.5	1573.8	1577.2	1584.0	1592.6
32.5°	1511.3	1531.9	1537.0	1540.4	1538.7
35°	1469.4	1475.4	1492.5	1495.1	1503.6
37.5°	1418.1	1416.4	1437.8	1446.3	1437.8
40°	1364.2	1369.3	1387.3	1396.7	1401.8
42.5°	1298.4	1310.3	1330.9	1341.1	1340.3
45°	1253.0	1253.9	1272.7	1283.0	1282.1
47.5°	1187.2	1194.9	1212.8	1228.2	1223.9
50°	1117.9	1130.7	1148.7	1162.4	1165.8
52.5°	1046.0	1061.4	1080.3	1107.6	1093.1
55°	986.2	993.0	1012.7	1034.1	1037.5
57.5°	915.2	922.9	946.0	964.8	970.8
60°	837.3	845.0	875.0	898.1	894.7
62.5°	764.6	776.6	802.3	822.8	820.2
65°	683.4	697.9	723.6	748.4	754.4
67.5°	597.0	616.7	649.2	676.5	677.4
70°	513.2	536.3	575.6	597.9	599.6
72.5°	438.8	455.9	496.9	520.9	522.6
75°	356.7	379.8	410.5	439.6	442.2
77.5°	277.1	301.1	336.1	364.4	370.3
80°	199.3	225.8	259.2	285.7	289.9
82.5°	130.9	156.5	189.0	213.0	213.0
85°	75.3	93.2	120.6	124.0	127.4
87.5°	24.8	35.9	45.3	48.8	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)