

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: P709606

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709606  
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-3500K-HI  
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

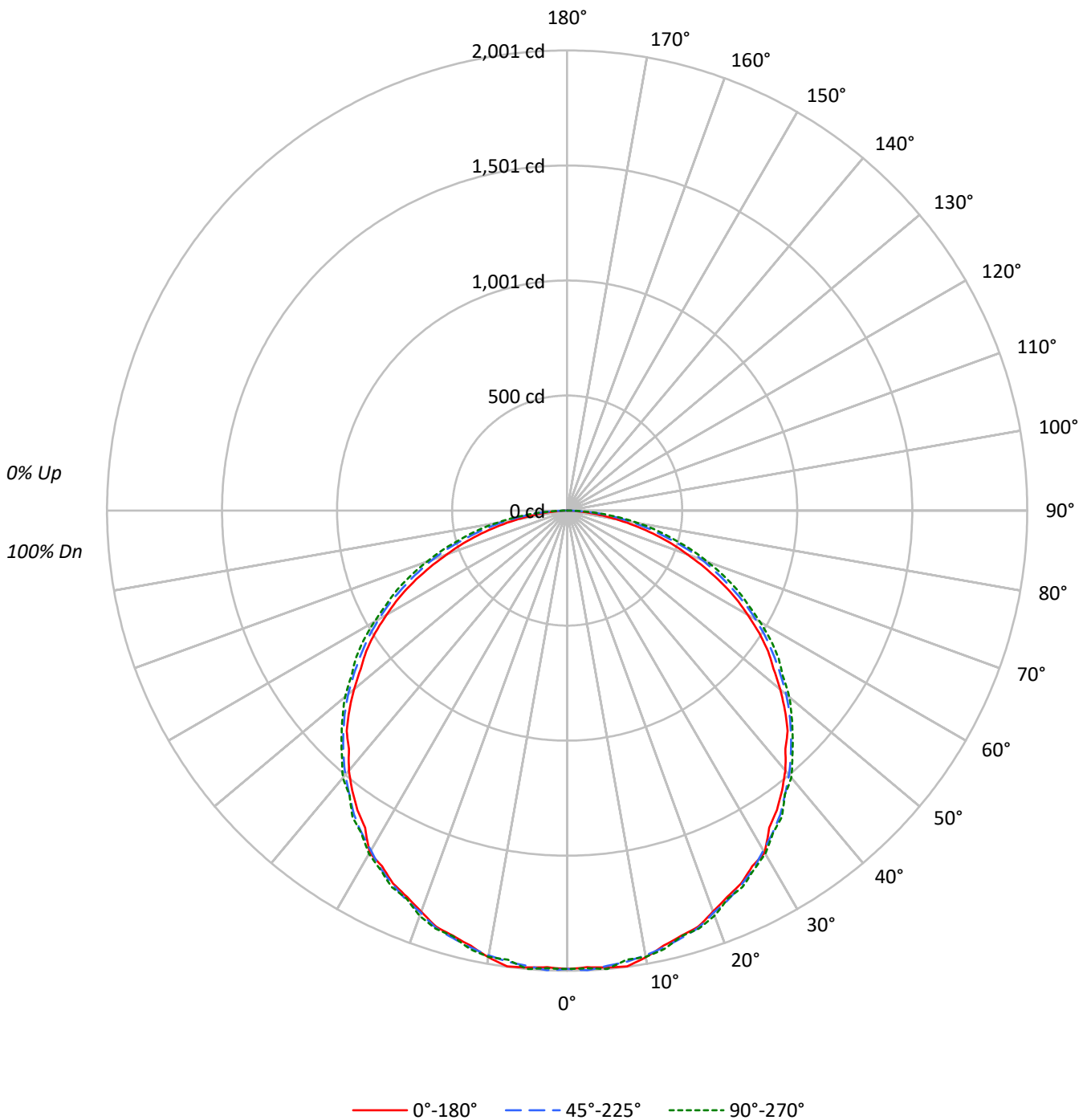
Lumens per Lamp: N/A  
Luminaire Lumens: 5978.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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°	5529	5529	5529
5°	5552	5534	5571
10°	5554	5531	5549
15°	5498	5525	5503
20°	5477	5493	5534
25°	5477	5491	5525
30°	5501	5465	5519
35°	5383	5468	5509
40°	5344	5435	5492
45°	5318	5401	5441
50°	5219	5363	5443
55°	5160	5298	5428
60°	5026	5251	5370
65°	4853	5138	5357
70°	4503	5051	5261
75°	4135	4760	5127
80°	3444	4479	5011
85°	2590	4153	4388



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	3.2
10°-20°	542.5	9.1
20°-30°	826.4	13.8
30°-40°	1006.0	16.8
40°-50°	1059.4	17.7
50°-60°	979.2	16.4
60°-70°	772.4	12.9
70°-80°	467.3	7.8
80°-90°	135.7	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°	1558.1	26.1
0°-40°	2564.1	42.9
0°-60°	4602.7	77.0
0°-90°	5978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5978.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1994	1985	1988	1986	2001	190
15°	1915	1922	1924	1918	1917	542
25°	1790	1785	1794	1797	1806	824
35°	1590	1596	1615	1618	1627	996
45°	1356	1357	1377	1388	1387	1040
55°	1067	1074	1096	1119	1123	950
65°	739	755	783	810	816	728
75°	386	411	444	476	478	408
85°	81	101	130	134	138	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1993.4	1993.4	1993.4	1993.4	1993.4
2.5°	1987.8	1998.0	2000.8	1992.5	1991.5
5°	1994.3	1985.1	1987.8	1986.0	2000.8
7.5°	1998.9	1984.1	1978.6	1974.0	1970.3
10°	1972.1	1965.6	1963.8	1962.8	1970.3
12.5°	1937.9	1943.4	1945.3	1942.5	1952.7
15°	1914.7	1922.1	1924.0	1917.5	1916.6
17.5°	1897.1	1891.6	1901.8	1891.6	1905.5
20°	1855.5	1860.1	1861.0	1870.3	1874.9
22.5°	1818.5	1831.4	1831.4	1837.9	1825.9
25°	1789.8	1785.2	1794.4	1797.2	1805.5
27.5°	1743.5	1740.7	1755.5	1745.4	1759.3
30°	1717.6	1702.8	1706.5	1713.9	1723.2
32.5°	1635.2	1657.5	1663.0	1666.7	1664.9
35°	1589.9	1596.4	1614.9	1617.7	1626.9
37.5°	1534.4	1532.5	1555.7	1564.9	1555.7
40°	1476.1	1481.6	1501.1	1511.2	1516.8
42.5°	1404.8	1417.8	1440.0	1451.1	1450.2
45°	1355.8	1356.7	1377.0	1388.2	1387.2
47.5°	1284.5	1292.8	1312.3	1328.9	1324.3
50°	1209.5	1223.4	1242.9	1257.7	1261.4
52.5°	1131.8	1148.5	1168.8	1198.4	1182.7
55°	1067.0	1074.4	1095.7	1118.9	1122.6
57.5°	990.2	998.5	1023.5	1043.9	1050.4
60°	906.0	914.3	946.7	971.7	968.0
62.5°	827.3	840.3	868.1	890.3	887.5
65°	739.4	755.2	782.9	809.8	816.2
67.5°	646.0	667.2	702.4	732.0	732.9
70°	555.3	580.2	622.8	646.9	648.7
72.5°	474.7	493.3	537.7	563.6	565.4
75°	385.9	410.9	444.2	475.7	478.4
77.5°	299.8	325.8	363.7	394.2	400.7
80°	215.6	244.3	280.4	309.1	313.7
82.5°	141.6	169.4	204.5	230.4	230.4
85°	81.4	100.9	130.5	134.2	137.9
87.5°	26.8	38.9	49.0	52.7	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)