

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: P709586

Luminaire Tested: **14ARS-L3C3-HO-SQR-UNV-5000K-LOW**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ARS-L3C3-HO-SQR-UNV-5000K-LOW  
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

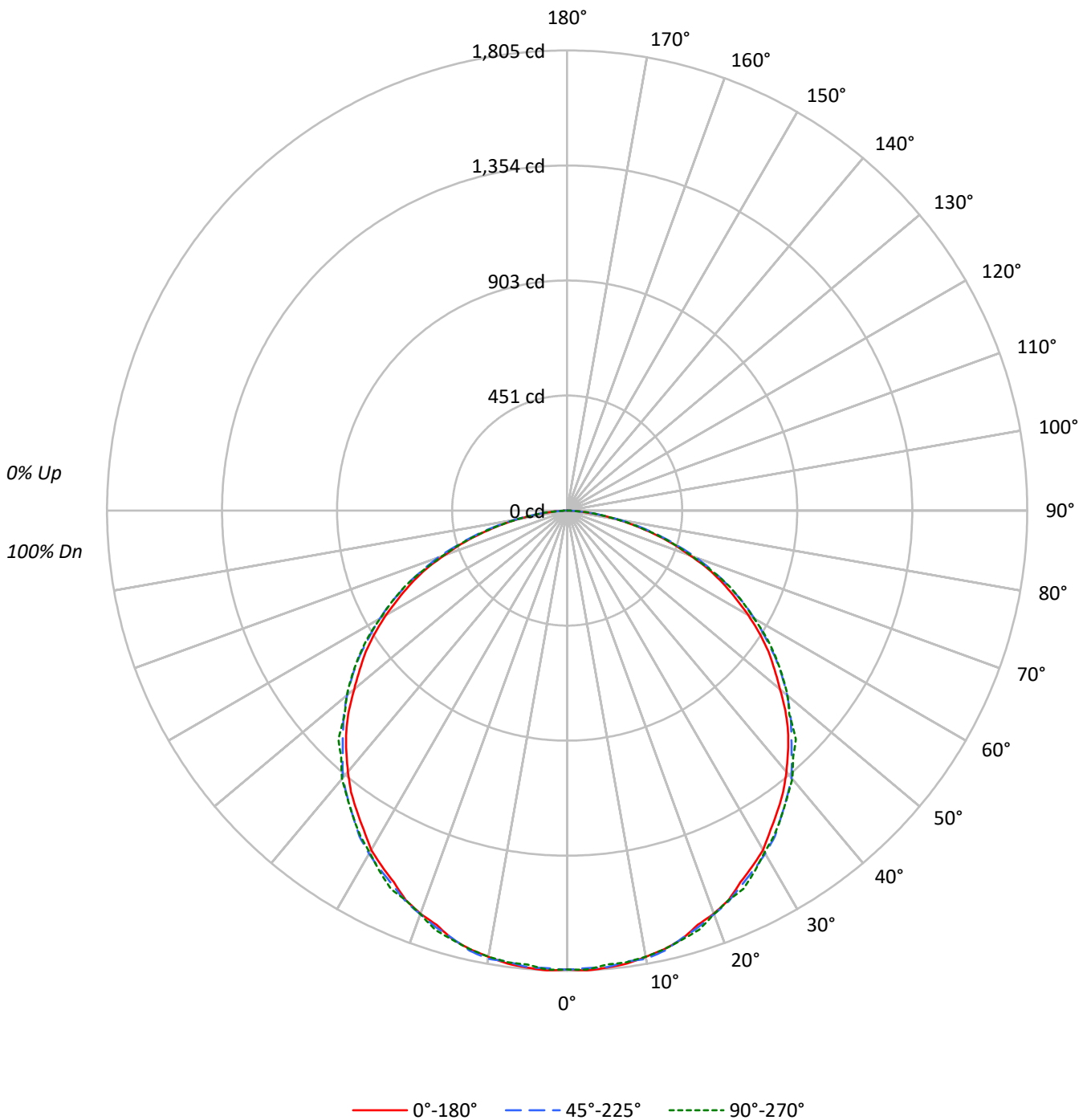
Lumens per Lamp: N/A  
Luminaire Lumens: 5316.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.2  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43				43
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26				26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24				24

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

	0°	45°	90°
0°	5891	5891	5891
5°	5911	5906	5871
10°	5906	5931	5904
15°	5895	5884	5903
20°	5859	5867	5864
25°	5807	5849	5910
30°	5807	5872	5850
35°	5746	5850	5850
40°	5714	5849	5870
45°	5671	5754	5871
50°	5551	5734	5746
55°	5497	5664	5688
60°	5370	5556	5540
65°	5219	5396	5428
70°	4901	5142	4971
75°	4441	4648	4534
80°	3754	3861	3754
85°	2564	2718	2838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	3.2
10°-20°	491.3	9.2
20°-30°	747.3	14.1
30°-40°	912.8	17.2
40°-50°	959.1	18.0
50°-60°	881.1	16.6
60°-70°	681.9	12.8
70°-80°	382.4	7.2
80°-90°	89.7	1.7
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°	1409.0	26.5
0°-40°	2321.8	43.7
0°-60°	4162.0	78.3
0°-90°	5316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1800	1780	1798	1794	1787	171
15°	1740	1741	1737	1746	1743	490
25°	1608	1612	1620	1628	1637	744
35°	1438	1446	1464	1469	1464	901
45°	1226	1232	1243	1251	1269	943
55°	964	979	993	990	997	859
65°	674	683	697	697	701	664
75°	351	365	368	355	359	373
85°	68	70	72	73	76	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1800.4	1800.4	1800.4	1800.4	1800.4
2.5°	1805.3	1797.1	1796.3	1799.6	1802.0
5°	1799.6	1780.1	1797.9	1793.9	1787.4
7.5°	1792.3	1764.6	1784.1	1786.6	1786.6
10°	1777.6	1765.4	1784.9	1780.1	1776.8
12.5°	1762.2	1761.4	1767.9	1765.4	1762.2
15°	1740.2	1741.0	1737.0	1745.9	1742.6
17.5°	1703.6	1715.8	1712.6	1723.1	1723.1
20°	1682.5	1676.0	1684.9	1689.8	1684.1
22.5°	1654.0	1641.0	1658.1	1661.3	1654.0
25°	1608.5	1612.5	1619.9	1628.0	1636.9
27.5°	1573.5	1575.9	1587.3	1585.7	1593.8
30°	1536.9	1538.5	1554.0	1561.3	1548.3
32.5°	1484.9	1502.8	1515.8	1512.5	1511.7
35°	1438.5	1445.8	1464.5	1468.6	1464.5
37.5°	1392.2	1397.0	1415.8	1414.9	1417.4
40°	1337.7	1347.4	1369.4	1362.1	1374.3
42.5°	1282.4	1293.8	1302.7	1310.8	1311.7
45°	1225.5	1232.0	1243.4	1250.7	1268.6
47.5°	1161.2	1176.7	1188.1	1193.8	1182.4
50°	1090.5	1116.5	1126.3	1131.9	1128.7
52.5°	1025.4	1053.1	1061.2	1061.2	1063.6
55°	963.6	979.1	992.9	989.6	997.0
57.5°	893.7	910.8	919.7	923.8	927.0
60°	820.5	844.1	849.0	847.3	846.5
62.5°	744.9	766.0	775.8	769.3	775.0
65°	674.1	683.1	696.9	696.9	701.0
67.5°	599.3	609.1	618.0	616.4	609.9
70°	512.3	526.1	537.5	526.9	519.6
72.5°	435.9	447.3	448.9	440.7	441.6
75°	351.3	365.1	367.6	355.4	358.6
77.5°	271.6	286.2	288.7	275.7	275.7
80°	199.2	209.0	204.9	199.2	199.2
82.5°	129.3	135.8	131.7	135.0	131.7
85°	68.3	69.9	72.4	73.2	75.6
87.5°	22.8	25.2	24.4	22.0	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)