

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: P709580

Luminaire Tested: **14ARS-L3C3-HO-SQR-UNV-3500K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709580
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-3500K-LOW
Description: ARS 1x4 Selectable High Output 80CRI Square, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

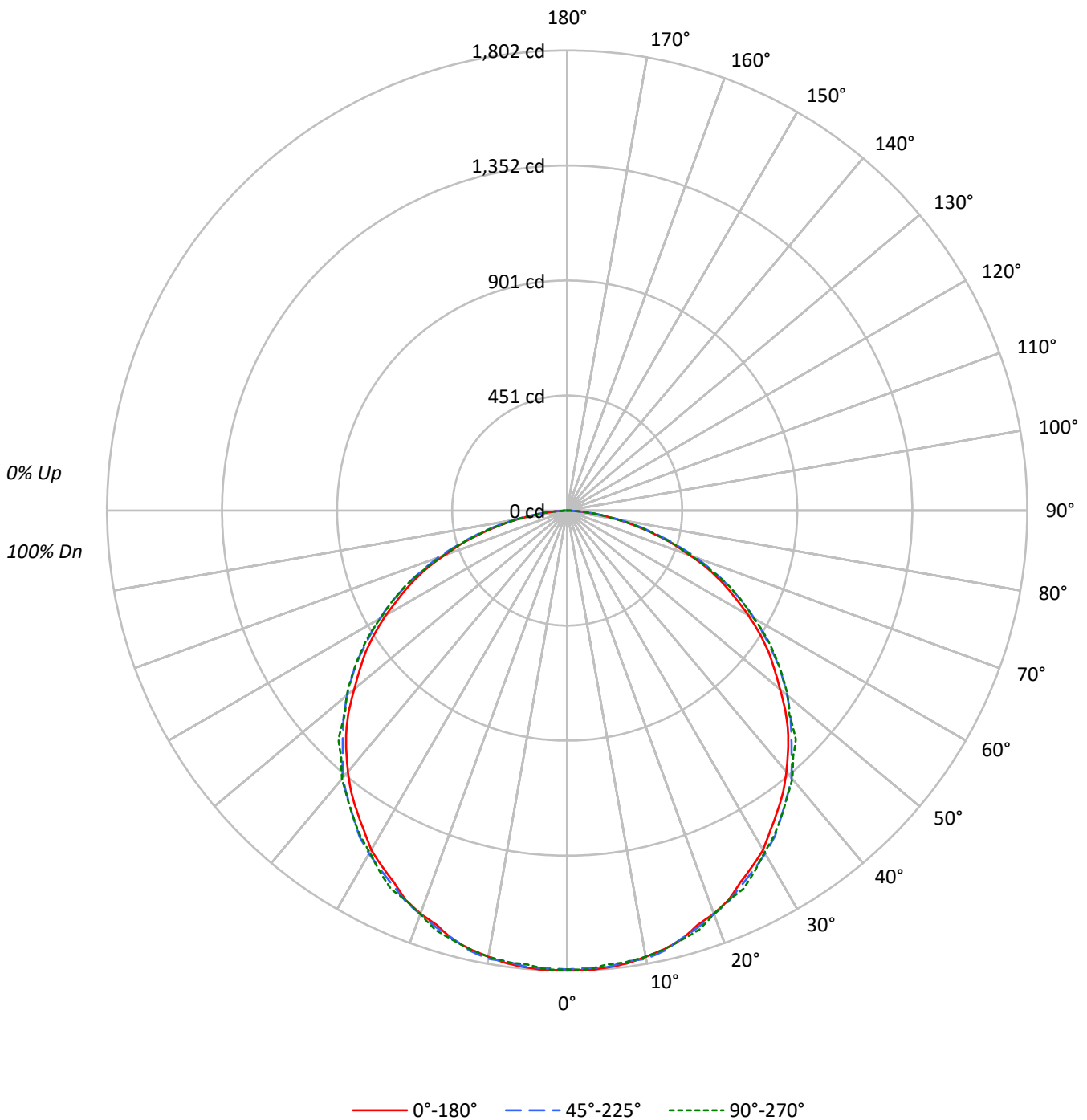
Lumens per Lamp: N/A
Luminaire Lumens: 5307.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
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				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°	5881	5881	5881
5°	5901	5896	5861
10°	5896	5921	5894
15°	5885	5874	5893
20°	5849	5857	5854
25°	5798	5839	5900
30°	5797	5862	5840
35°	5737	5841	5841
40°	5704	5840	5861
45°	5661	5744	5860
50°	5542	5724	5736
55°	5488	5655	5678
60°	5361	5546	5531
65°	5211	5387	5418
70°	4893	5134	4963
75°	4434	4639	4526
80°	3748	3855	3748
85°	2561	2714	2835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	3.2
10°-20°	490.5	9.2
20°-30°	746.0	14.1
30°-40°	911.2	17.2
40°-50°	957.5	18.0
50°-60°	879.6	16.6
60°-70°	680.8	12.8
70°-80°	381.7	7.2
80°-90°	89.6	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°	1406.6	26.5
0°-40°	2317.9	43.7
0°-60°	4154.9	78.3
0°-90°	5307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1796	1777	1795	1791	1784	171
15°	1737	1738	1734	1743	1740	489
25°	1606	1610	1617	1625	1634	743
35°	1436	1443	1462	1466	1462	900
45°	1223	1230	1241	1249	1266	941
55°	962	977	991	988	995	857
65°	673	682	696	696	700	663
75°	351	364	367	355	358	372
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°	1797.3	1797.3	1797.3	1797.3	1797.3
2.5°	1802.2	1794.1	1793.3	1796.5	1799.0
5°	1796.5	1777.0	1794.9	1790.8	1784.3
7.5°	1789.2	1761.6	1781.1	1783.5	1783.5
10°	1774.6	1762.4	1781.9	1777.0	1773.8
12.5°	1759.2	1758.4	1764.9	1762.4	1759.2
15°	1737.3	1738.1	1734.0	1742.9	1739.7
17.5°	1700.7	1712.9	1709.7	1720.2	1720.2
20°	1679.6	1673.1	1682.1	1686.9	1681.2
22.5°	1651.2	1638.2	1655.3	1658.5	1651.2
25°	1605.8	1609.8	1617.1	1625.2	1634.2
27.5°	1570.8	1573.3	1584.6	1583.0	1591.1
30°	1534.3	1535.9	1551.4	1558.7	1545.7
32.5°	1482.4	1500.2	1513.2	1510.0	1509.1
35°	1436.1	1443.4	1462.1	1466.1	1462.1
37.5°	1389.8	1394.7	1413.4	1412.5	1415.0
40°	1335.4	1345.2	1367.1	1359.8	1372.0
42.5°	1280.2	1291.6	1300.5	1308.6	1309.4
45°	1223.4	1229.9	1241.3	1248.6	1266.4
47.5°	1159.3	1174.7	1186.0	1191.7	1180.4
50°	1088.6	1114.6	1124.4	1130.0	1126.8
52.5°	1023.7	1051.3	1059.4	1059.4	1061.8
55°	962.0	977.4	991.2	988.0	995.3
57.5°	892.2	909.2	918.2	922.2	925.5
60°	819.1	842.7	847.5	845.9	845.1
62.5°	743.6	764.7	774.5	768.0	773.7
65°	673.0	681.9	695.7	695.7	699.8
67.5°	598.3	608.0	617.0	615.3	608.9
70°	511.4	525.2	536.6	526.0	518.7
72.5°	435.1	446.5	448.1	440.0	440.8
75°	350.7	364.5	366.9	354.8	358.0
77.5°	271.1	285.8	288.2	275.2	275.2
80°	198.9	208.6	204.6	198.9	198.9
82.5°	129.1	135.6	131.5	134.8	131.5
85°	68.2	69.8	72.3	73.1	75.5
87.5°	22.7	25.2	24.4	21.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)