

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: P709613

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709613
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-LOW
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

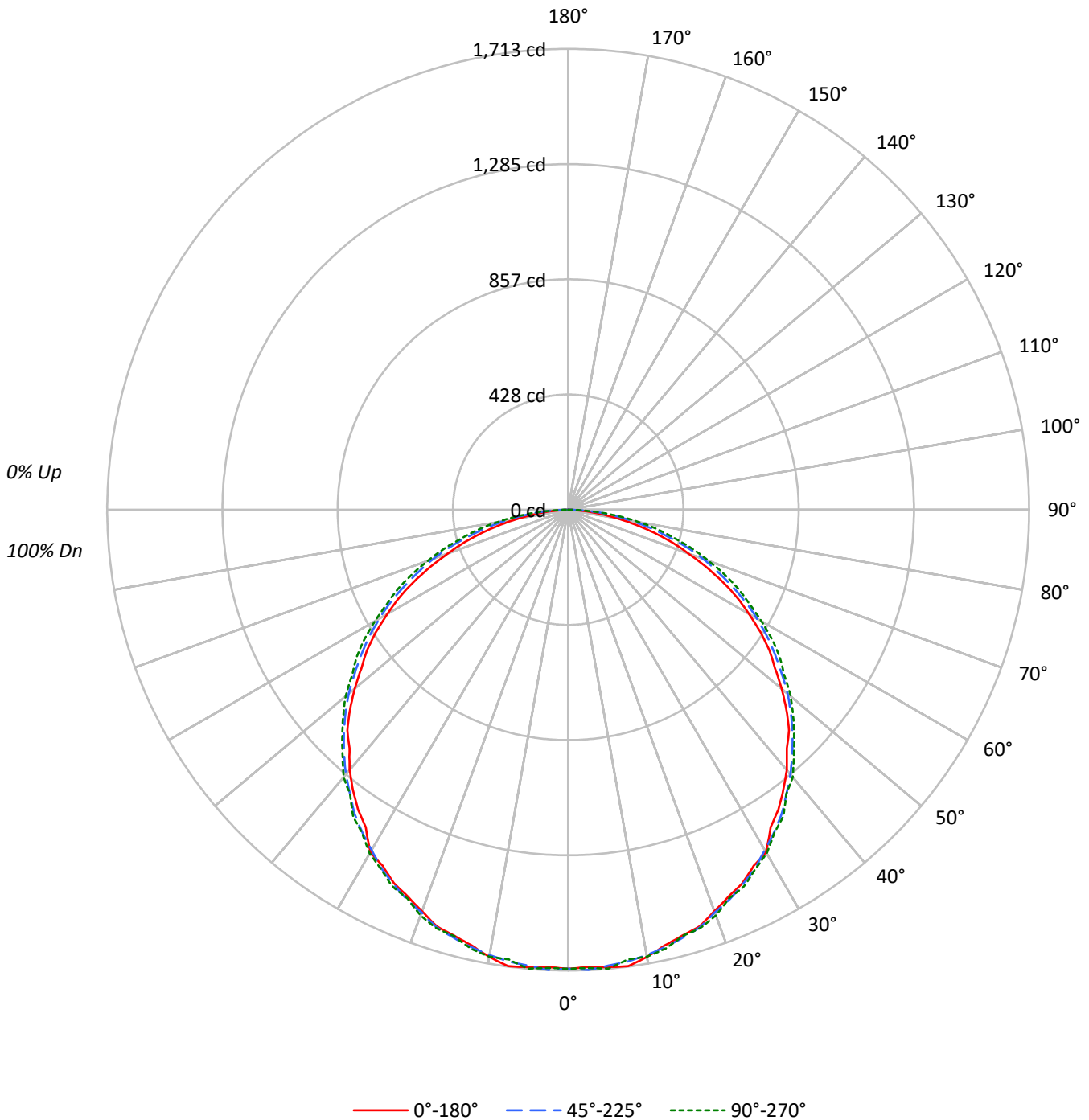
Lumens per Lamp: N/A
Luminaire Lumens: 5117.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
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	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°	4733	4733	4733
5°	4753	4737	4768
10°	4754	4734	4750
15°	4706	4729	4711
20°	4688	4702	4737
25°	4688	4701	4730
30°	4709	4678	4724
35°	4608	4680	4715
40°	4575	4652	4701
45°	4552	4623	4657
50°	4467	4591	4659
55°	4416	4535	4646
60°	4302	4495	4596
65°	4154	4398	4585
70°	3854	4323	4503
75°	3540	4074	4388
80°	2948	3833	4289
85°	2218	3555	3755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.2
10°-20°	464.4	9.1
20°-30°	707.4	13.8
30°-40°	861.1	16.8
40°-50°	906.8	17.7
50°-60°	838.1	16.4
60°-70°	661.1	12.9
70°-80°	400.0	7.8
80°-90°	116.2	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°	1333.7	26.1
0°-40°	2194.8	42.9
0°-60°	3939.7	77.0
0°-90°	5117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1707	1699	1702	1700	1713	163
15°	1639	1645	1647	1641	1640	464
25°	1532	1528	1536	1538	1546	705
35°	1361	1366	1382	1385	1393	852
45°	1160	1161	1179	1188	1187	891
55°	913	920	938	958	961	813
65°	633	646	670	693	699	623
75°	330	352	380	407	410	349
85°	70	86	112	115	118	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1701.5	1710.2	1712.6	1705.5	1704.7
5°	1707.1	1699.2	1701.5	1699.9	1712.6
7.5°	1711.0	1698.4	1693.6	1689.6	1686.5
10°	1688.1	1682.5	1680.9	1680.1	1686.5
12.5°	1658.8	1663.5	1665.1	1662.7	1671.4
15°	1639.0	1645.3	1646.9	1641.3	1640.5
17.5°	1623.9	1619.1	1627.9	1619.1	1631.0
20°	1588.3	1592.2	1593.0	1600.9	1604.9
22.5°	1556.6	1567.7	1567.7	1573.2	1562.9
25°	1532.0	1528.0	1536.0	1538.3	1545.5
27.5°	1492.4	1490.0	1502.7	1494.0	1505.9
30°	1470.2	1457.5	1460.7	1467.1	1475.0
32.5°	1399.7	1418.7	1423.5	1426.7	1425.1
35°	1360.9	1366.5	1382.3	1384.7	1392.6
37.5°	1313.4	1311.8	1331.6	1339.5	1331.6
40°	1263.5	1268.2	1284.9	1293.6	1298.3
42.5°	1202.5	1213.6	1232.6	1242.1	1241.3
45°	1160.5	1161.3	1178.7	1188.2	1187.4
47.5°	1099.5	1106.6	1123.3	1137.5	1133.6
50°	1035.3	1047.2	1063.9	1076.5	1079.7
52.5°	968.8	983.1	1000.5	1025.8	1012.4
55°	913.3	919.7	937.9	957.7	960.9
57.5°	847.6	854.7	876.1	893.5	899.1
60°	775.5	782.6	810.4	831.8	828.6
62.5°	708.2	719.3	743.0	762.0	759.7
65°	632.9	646.4	670.2	693.1	698.7
67.5°	552.9	571.1	601.2	626.6	627.4
70°	475.3	496.7	533.1	553.7	555.3
72.5°	406.4	422.2	460.2	482.4	484.0
75°	330.3	351.7	380.2	407.2	409.5
77.5°	256.7	278.8	311.3	337.5	343.0
80°	184.6	209.1	240.0	264.6	268.5
82.5°	121.2	145.0	175.1	197.2	197.2
85°	69.7	86.3	111.7	114.9	118.0
87.5°	23.0	33.3	42.0	45.2	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)