

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: P709608

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709608
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-MID
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

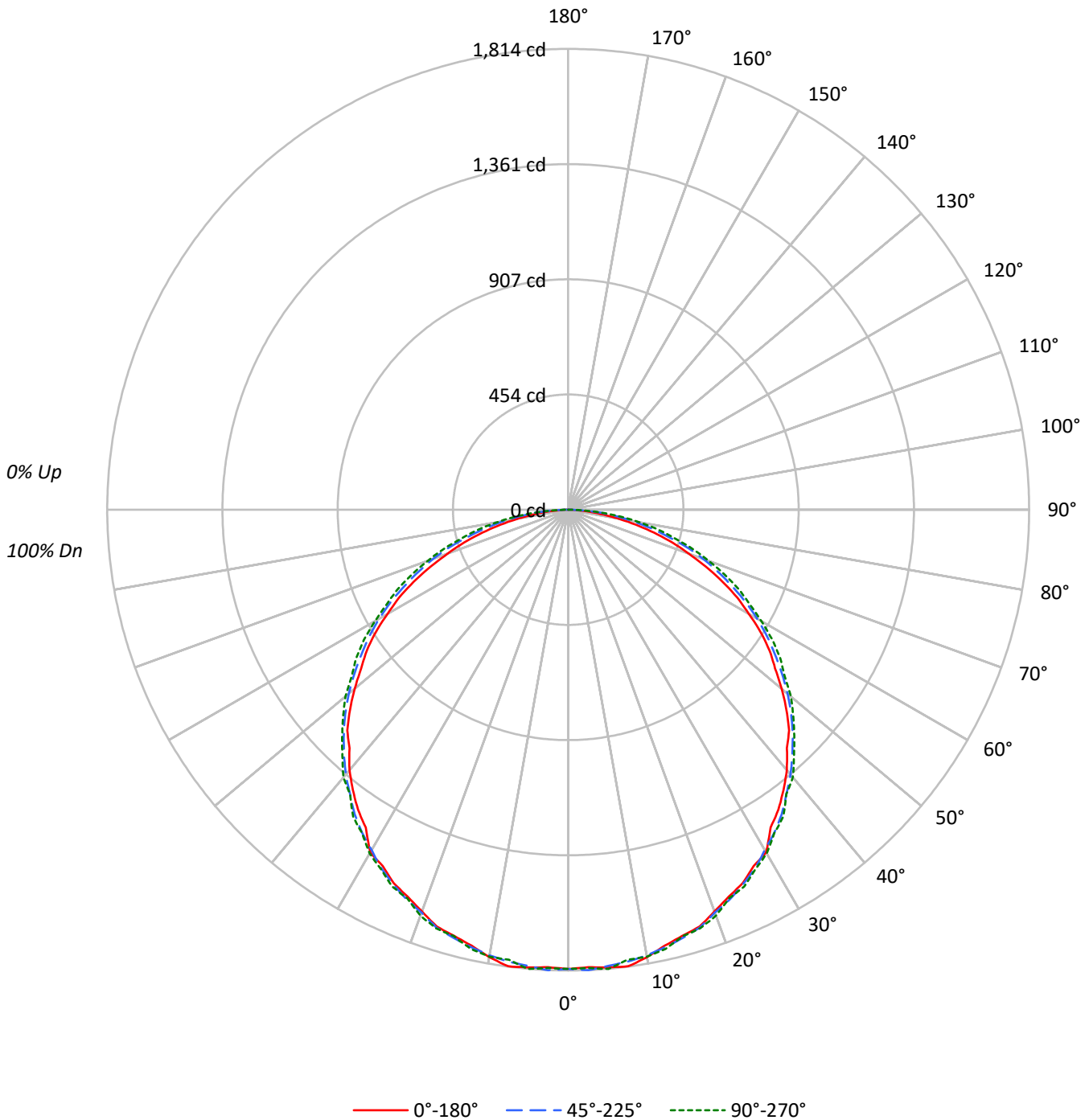
Lumens per Lamp: N/A
Luminaire Lumens: 5421.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 42.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	5014	5014	5014
5°	5035	5019	5052
10°	5037	5015	5032
15°	4986	5010	4990
20°	4966	4981	5018
25°	4967	4980	5011
30°	4988	4956	5004
35°	4882	4958	4995
40°	4846	4928	4980
45°	4822	4898	4934
50°	4733	4863	4935
55°	4679	4805	4923
60°	4558	4762	4869
65°	4400	4660	4858
70°	4083	4580	4771
75°	3750	4316	4650
80°	3123	4062	4544
85°	2352	3765	3978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.2
10°-20°	492.0	9.1
20°-30°	749.4	13.8
30°-40°	912.3	16.8
40°-50°	960.7	17.7
50°-60°	887.9	16.4
60°-70°	700.4	12.9
70°-80°	423.7	7.8
80°-90°	123.1	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°	1412.9	26.1
0°-40°	2325.1	42.9
0°-60°	4173.8	77.0
0°-90°	5421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1808	1800	1803	1801	1814	172
15°	1736	1743	1745	1739	1738	491
25°	1623	1619	1627	1630	1637	747
35°	1442	1448	1464	1467	1475	903
45°	1229	1230	1249	1259	1258	943
55°	968	974	994	1015	1018	861
65°	670	685	710	734	740	660
75°	350	373	403	431	434	370
85°	74	92	118	122	125	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.7	1807.7	1807.7	1807.7	1807.7
2.5°	1802.6	1811.8	1814.4	1806.8	1806.0
5°	1808.5	1800.1	1802.6	1800.9	1814.4
7.5°	1812.7	1799.3	1794.2	1790.0	1786.7
10°	1788.4	1782.5	1780.8	1780.0	1786.7
12.5°	1757.3	1762.3	1764.0	1761.5	1770.7
15°	1736.3	1743.0	1744.7	1738.8	1738.0
17.5°	1720.4	1715.3	1724.6	1715.3	1727.9
20°	1682.6	1686.8	1687.6	1696.0	1700.2
22.5°	1649.0	1660.8	1660.8	1666.7	1655.8
25°	1623.0	1618.8	1627.2	1629.7	1637.3
27.5°	1581.1	1578.5	1592.0	1582.7	1595.3
30°	1557.6	1544.1	1547.5	1554.2	1562.6
32.5°	1482.9	1503.0	1508.1	1511.4	1509.7
35°	1441.8	1447.6	1464.4	1466.9	1475.3
37.5°	1391.4	1389.7	1410.7	1419.1	1410.7
40°	1338.5	1343.6	1361.2	1370.4	1375.5
42.5°	1273.9	1285.7	1305.8	1315.9	1315.0
45°	1229.4	1230.3	1248.7	1258.8	1258.0
47.5°	1164.8	1172.4	1190.0	1205.1	1200.9
50°	1096.8	1109.4	1127.1	1140.5	1143.8
52.5°	1026.4	1041.5	1059.9	1086.8	1072.5
55°	967.6	974.3	993.6	1014.6	1018.0
57.5°	898.0	905.5	928.2	946.6	952.5
60°	821.6	829.1	858.5	881.2	877.8
62.5°	750.3	762.0	787.2	807.3	804.8
65°	670.5	684.8	710.0	734.3	740.2
67.5°	585.8	605.1	637.0	663.8	664.7
70°	503.5	526.2	564.8	586.6	588.3
72.5°	430.5	447.3	487.6	511.1	512.8
75°	349.9	372.6	402.8	431.4	433.9
77.5°	271.9	295.4	329.8	357.5	363.4
80°	195.5	221.6	254.3	280.3	284.5
82.5°	128.4	153.6	185.5	209.0	209.0
85°	73.9	91.5	118.3	121.7	125.0
87.5°	24.3	35.2	44.5	47.8	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)