

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: P709620

Luminaire Tested: **22ARS-L3C3-UNV-4000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709620
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-UNV-4000K-MID
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

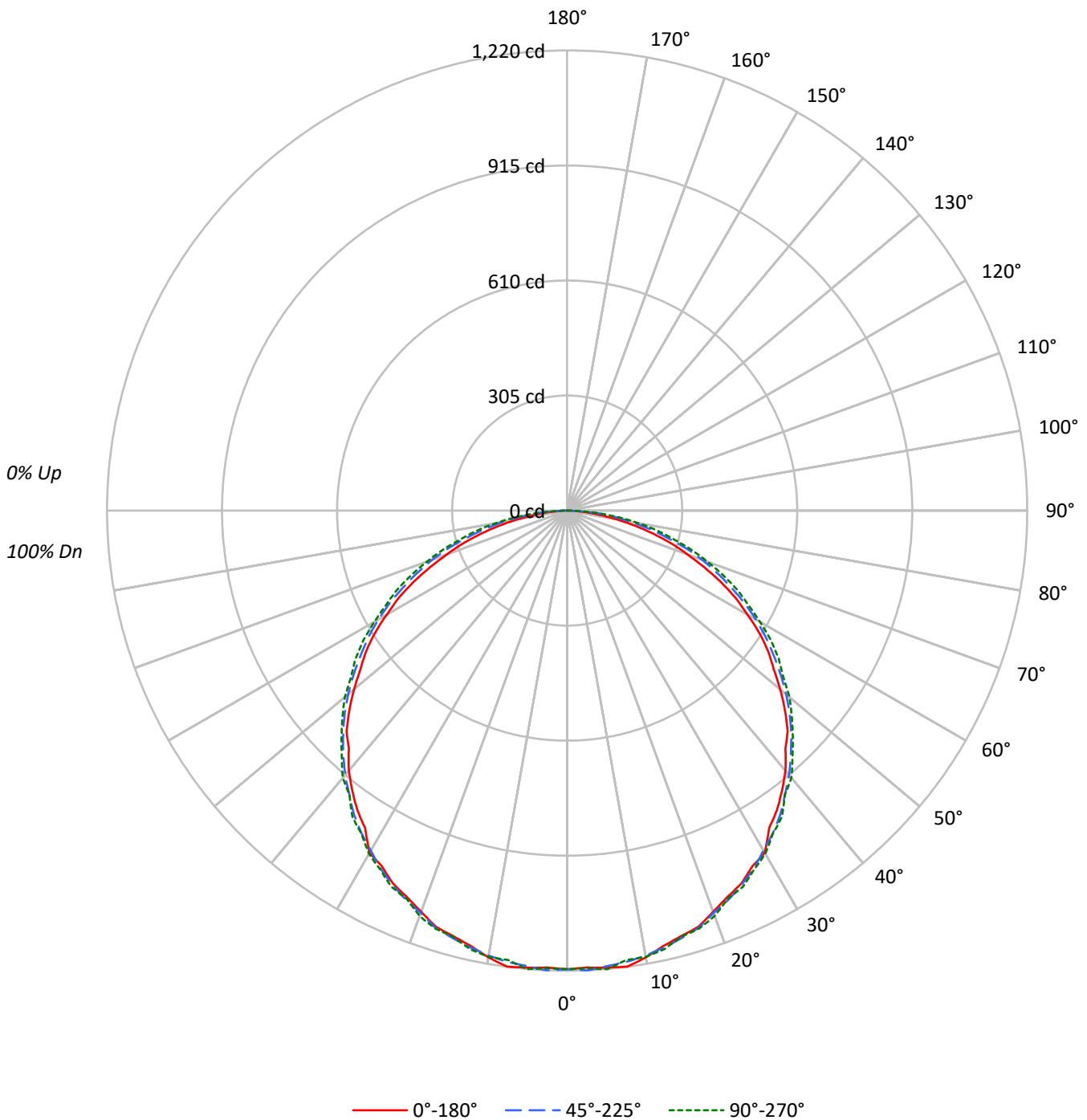
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
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°	3372	3372	3372
5°	3386	3376	3398
10°	3388	3373	3384
15°	3353	3369	3356
20°	3340	3350	3375
25°	3341	3349	3370
30°	3355	3333	3366
35°	3283	3335	3360
40°	3260	3315	3349
45°	3243	3294	3319
50°	3183	3271	3319
55°	3147	3232	3310
60°	3065	3203	3275
65°	2960	3134	3267
70°	2747	3081	3209
75°	2523	2903	3127
80°	2100	2731	3056
85°	1582	2533	2676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.2
10°-20°	330.9	9.1
20°-30°	504.0	13.8
30°-40°	613.6	16.8
40°-50°	646.1	17.7
50°-60°	597.2	16.4
60°-70°	471.1	12.9
70°-80°	285.0	7.8
80°-90°	82.8	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°	950.3	26.1
0°-40°	1563.8	42.9
0°-60°	2807.2	77.0
0°-90°	3646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1216	1211	1212	1211	1220	116
15°	1168	1172	1173	1170	1169	330
25°	1092	1089	1094	1096	1101	503
35°	970	974	985	987	992	607
45°	827	827	840	847	846	635
55°	651	655	668	682	685	579
65°	451	461	478	494	498	444
75°	235	251	271	290	292	249
85°	50	62	80	82	84	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1212.4	1218.6	1220.3	1215.2	1214.6
5°	1216.3	1210.7	1212.4	1211.3	1220.3
7.5°	1219.2	1210.1	1206.7	1203.9	1201.7
10°	1202.8	1198.8	1197.7	1197.1	1201.7
12.5°	1181.9	1185.3	1186.4	1184.7	1190.9
15°	1167.8	1172.3	1173.4	1169.5	1168.9
17.5°	1157.1	1153.7	1159.9	1153.7	1162.2
20°	1131.7	1134.5	1135.1	1140.7	1143.5
22.5°	1109.1	1117.0	1117.0	1120.9	1113.6
25°	1091.6	1088.8	1094.4	1096.1	1101.2
27.5°	1063.4	1061.7	1070.7	1064.5	1073.0
30°	1047.6	1038.5	1040.8	1045.3	1051.0
32.5°	997.3	1010.9	1014.3	1016.5	1015.4
35°	969.7	973.6	984.9	986.6	992.3
37.5°	935.8	934.7	948.8	954.4	948.8
40°	900.3	903.6	915.5	921.7	925.1
42.5°	856.8	864.7	878.2	885.0	884.5
45°	826.9	827.4	839.9	846.6	846.1
47.5°	783.4	788.5	800.4	810.5	807.7
50°	737.7	746.2	758.0	767.1	769.3
52.5°	690.3	700.5	712.9	730.9	721.3
55°	650.8	655.3	668.3	682.4	684.6
57.5°	603.9	609.0	624.3	636.7	640.6
60°	552.6	557.7	577.4	592.6	590.4
62.5°	504.6	512.5	529.4	543.0	541.3
65°	451.0	460.6	477.5	493.9	497.8
67.5°	394.0	407.0	428.4	446.5	447.0
70°	338.7	353.9	379.9	394.5	395.7
72.5°	289.6	300.8	327.9	343.7	344.9
75°	235.4	250.6	270.9	290.1	291.8
77.5°	182.9	198.7	221.8	240.4	244.4
80°	131.5	149.0	171.0	188.5	191.3
82.5°	86.4	103.3	124.7	140.5	140.5
85°	49.7	61.5	79.6	81.8	84.1
87.5°	16.4	23.7	29.9	32.2	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)