

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: P709618

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709618  
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-HI  
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

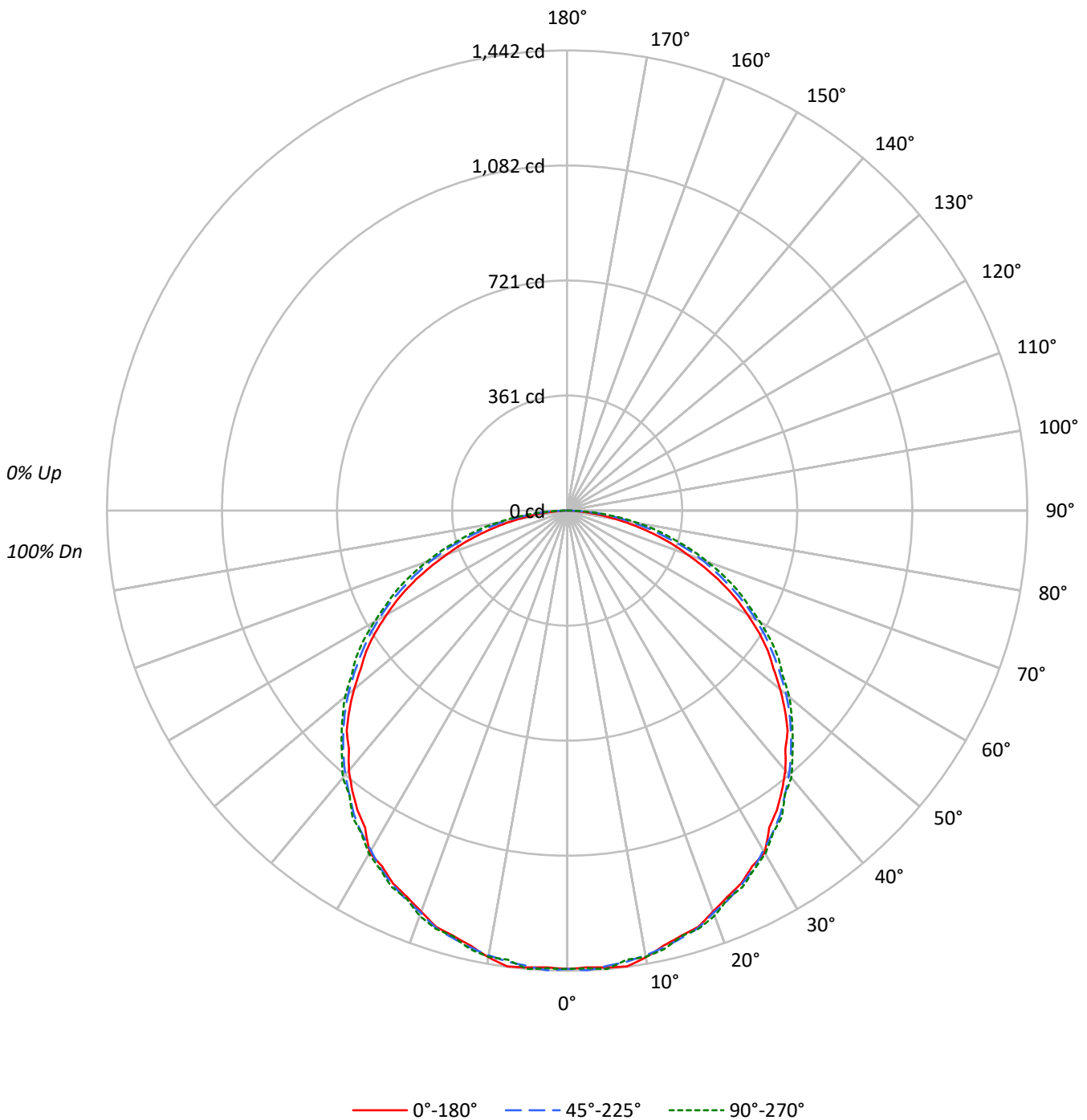
Lumens per Lamp: N/A  
Luminaire Lumens: 4308.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.9  
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	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°	3984	3984	3984
5°	4001	3988	4014
10°	4003	3986	3999
15°	3962	3981	3966
20°	3947	3959	3988
25°	3947	3957	3982
30°	3964	3939	3977
35°	3879	3941	3970
40°	3851	3916	3958
45°	3832	3893	3921
50°	3761	3865	3922
55°	3718	3818	3912
60°	3622	3784	3870
65°	3497	3703	3860
70°	3245	3639	3791
75°	2980	3430	3695
80°	2482	3228	3611
85°	1868	2991	3163



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	3.2
10°-20°	391.0	9.1
20°-30°	595.5	13.8
30°-40°	725.0	16.8
40°-50°	763.5	17.7
50°-60°	705.6	16.4
60°-70°	556.6	12.9
70°-80°	336.7	7.8
80°-90°	97.8	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°	1122.8	26.1
0°-40°	1847.8	42.9
0°-60°	3316.9	77.0
0°-90°	4308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1437	1430	1432	1431	1442	137
15°	1380	1385	1386	1382	1381	390
25°	1290	1286	1293	1295	1301	594
35°	1146	1150	1164	1166	1172	717
45°	977	978	992	1000	1000	750
55°	769	774	790	806	809	685
65°	533	544	564	584	588	525
75°	278	296	320	343	345	294
85°	59	73	94	97	99	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1432.5	1439.9	1441.9	1435.9	1435.2
5°	1437.2	1430.5	1432.5	1431.2	1441.9
7.5°	1440.5	1429.8	1425.8	1422.5	1419.8
10°	1421.2	1416.5	1415.2	1414.5	1419.8
12.5°	1396.5	1400.5	1401.8	1399.8	1407.2
15°	1379.8	1385.2	1386.5	1381.8	1381.2
17.5°	1367.2	1363.2	1370.5	1363.2	1373.2
20°	1337.1	1340.5	1341.2	1347.8	1351.2
22.5°	1310.5	1319.8	1319.8	1324.5	1315.8
25°	1289.8	1286.5	1293.1	1295.1	1301.1
27.5°	1256.5	1254.5	1265.1	1257.8	1267.8
30°	1237.8	1227.1	1229.8	1235.1	1241.8
32.5°	1178.4	1194.4	1198.4	1201.1	1199.8
35°	1145.7	1150.4	1163.8	1165.8	1172.4
37.5°	1105.7	1104.4	1121.1	1127.7	1121.1
40°	1063.7	1067.7	1081.7	1089.1	1093.1
42.5°	1012.4	1021.7	1037.7	1045.7	1045.0
45°	977.0	977.7	992.4	1000.4	999.7
47.5°	925.7	931.7	945.7	957.7	954.3
50°	871.6	881.7	895.7	906.3	909.0
52.5°	815.6	827.6	842.3	863.6	852.3
55°	768.9	774.3	789.6	806.3	809.0
57.5°	713.6	719.6	737.6	752.3	756.9
60°	652.9	658.9	682.2	700.3	697.6
62.5°	596.2	605.6	625.6	641.6	639.6
65°	532.9	544.2	564.2	583.5	588.2
67.5°	465.5	480.8	506.2	527.5	528.2
70°	400.1	418.2	448.8	466.2	467.5
72.5°	342.1	355.5	387.5	406.1	407.5
75°	278.1	296.1	320.1	342.8	344.8
77.5°	216.1	234.8	262.1	284.1	288.8
80°	155.4	176.1	202.1	222.7	226.1
82.5°	102.0	122.0	147.4	166.1	166.1
85°	58.7	72.7	94.0	96.7	99.4
87.5°	19.3	28.0	35.3	38.0	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)