

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: P709630

Luminaire Tested: **22ARS-L3C39-UNV-5000K-HI**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709630  
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-L3C39-UNV-5000K-HI  
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

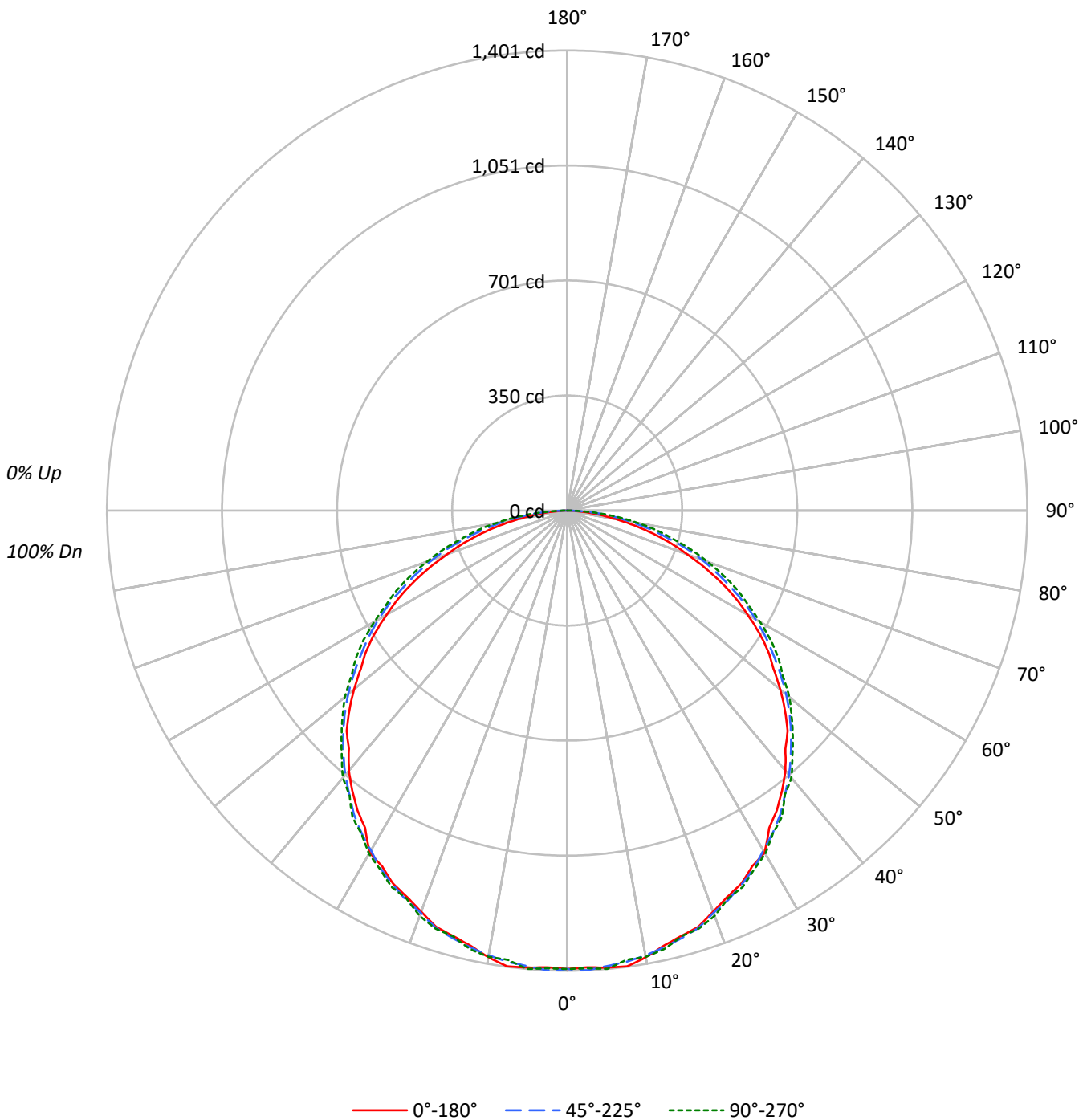
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4186.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 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): 33  
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°	3871	3871	3871
5°	3888	3875	3901
10°	3889	3873	3885
15°	3850	3868	3854
20°	3835	3846	3875
25°	3835	3845	3869
30°	3852	3827	3864
35°	3770	3829	3857
40°	3742	3806	3845
45°	3724	3782	3810
50°	3655	3755	3811
55°	3613	3710	3801
60°	3519	3677	3760
65°	3398	3598	3751
70°	3153	3536	3684
75°	2896	3334	3590
80°	2412	3137	3509
85°	1814	2909	3074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	3.2
10°-20°	379.9	9.1
20°-30°	578.7	13.8
30°-40°	704.4	16.8
40°-50°	741.8	17.7
50°-60°	685.7	16.4
60°-70°	540.8	12.9
70°-80°	327.2	7.8
80°-90°	95.0	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°	1091.0	26.1
0°-40°	1795.4	42.9
0°-60°	3223.0	77.0
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1396	1390	1392	1391	1401	133
15°	1341	1346	1347	1343	1342	379
25°	1253	1250	1256	1258	1264	577
35°	1113	1118	1131	1133	1139	697
45°	949	950	964	972	971	729
55°	747	752	767	784	786	665
65°	518	529	548	567	572	510
75°	270	288	311	333	335	285
85°	57	71	91	94	97	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1395.8	1395.8	1395.8	1395.8	1395.8
2.5°	1391.9	1399.1	1401.0	1395.2	1394.5
5°	1396.5	1390.0	1391.9	1390.7	1401.0
7.5°	1399.7	1389.4	1385.5	1382.2	1379.6
10°	1380.9	1376.4	1375.1	1374.5	1379.6
12.5°	1357.0	1360.8	1362.1	1360.2	1367.3
15°	1340.8	1345.9	1347.2	1342.7	1342.1
17.5°	1328.4	1324.6	1331.7	1324.6	1334.3
20°	1299.3	1302.5	1303.2	1309.7	1312.9
22.5°	1273.4	1282.4	1282.4	1287.0	1278.5
25°	1253.3	1250.0	1256.5	1258.5	1264.3
27.5°	1220.9	1218.9	1229.3	1222.2	1231.9
30°	1202.7	1192.4	1195.0	1200.1	1206.6
32.5°	1145.1	1160.6	1164.5	1167.1	1165.8
35°	1113.3	1117.8	1130.8	1132.7	1139.2
37.5°	1074.4	1073.1	1089.3	1095.8	1089.3
40°	1033.6	1037.5	1051.1	1058.2	1062.1
42.5°	983.7	992.8	1008.3	1016.1	1015.4
45°	949.4	950.0	964.3	972.0	971.4
47.5°	899.5	905.3	918.9	930.6	927.3
50°	847.0	856.7	870.3	880.7	883.3
52.5°	792.5	804.2	818.5	839.2	828.2
55°	747.2	752.4	767.3	783.5	786.0
57.5°	693.4	699.2	716.7	731.0	735.5
60°	634.4	640.2	662.9	680.4	677.8
62.5°	579.3	588.4	607.8	623.4	621.5
65°	517.8	528.8	548.2	567.0	571.6
67.5°	452.3	467.2	491.8	512.6	513.2
70°	388.8	406.3	436.1	453.0	454.3
72.5°	332.4	345.4	376.5	394.6	395.9
75°	270.2	287.7	311.1	333.1	335.0
77.5°	210.0	228.1	254.7	276.1	280.6
80°	151.0	171.1	196.4	216.4	219.7
82.5°	99.1	118.6	143.2	161.4	161.4
85°	57.0	70.6	91.4	94.0	96.6
87.5°	18.8	27.2	34.3	36.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)