

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: P709626

Luminaire Tested: **22ARS-L3C39-UNV-3500K-MID**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709626  
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-3500K-MID  
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

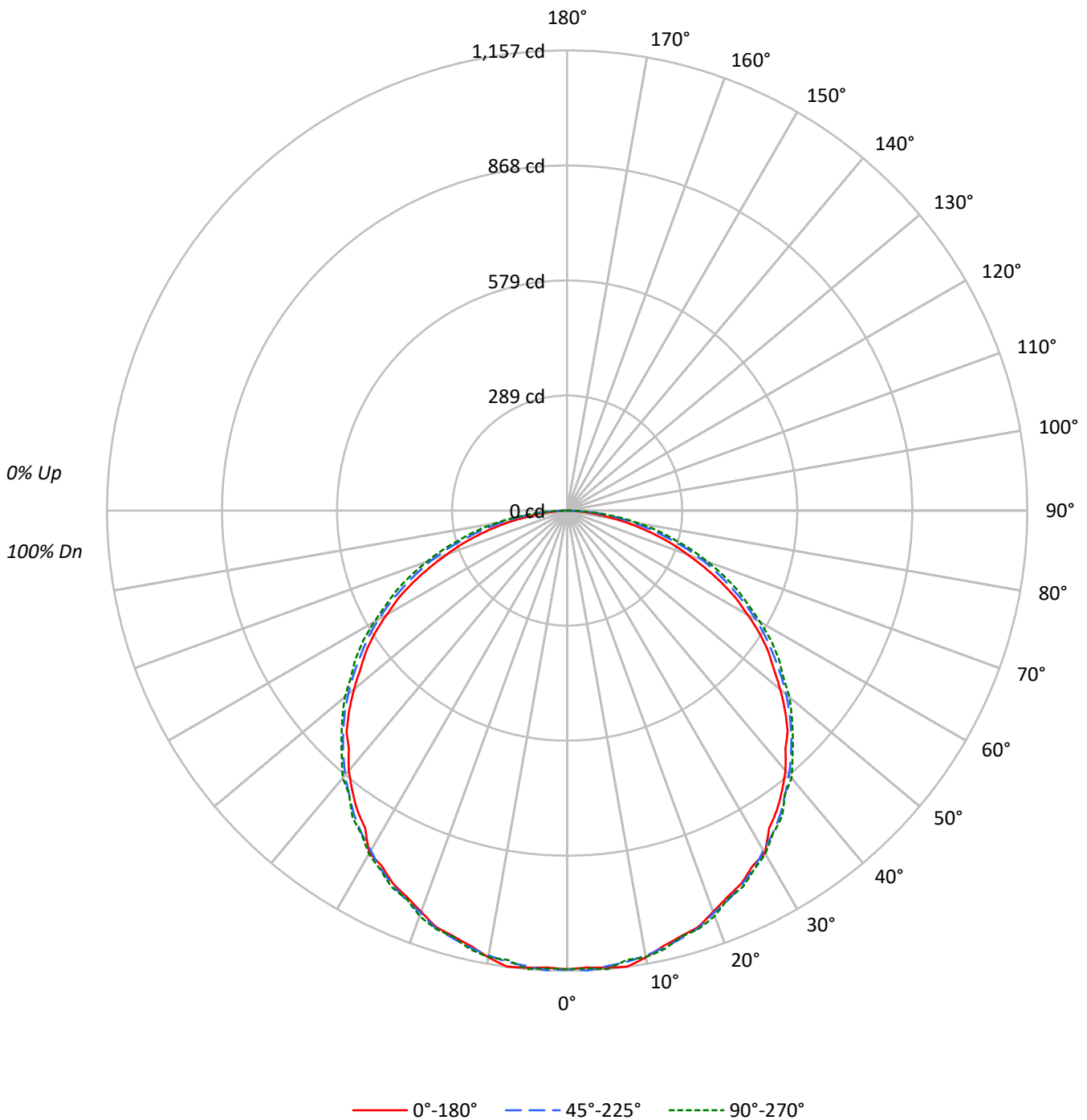
Lumens per Lamp: N/A  
Luminaire Lumens: 3458.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.4  
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°	3198	3198	3198
5°	3212	3202	3222
10°	3213	3199	3210
15°	3180	3196	3184
20°	3168	3177	3201
25°	3168	3177	3196
30°	3182	3161	3192
35°	3114	3163	3186
40°	3091	3144	3177
45°	3076	3125	3147
50°	3019	3102	3148
55°	2985	3065	3140
60°	2907	3038	3106
65°	2807	2972	3099
70°	2605	2922	3043
75°	2392	2754	2966
80°	1992	2591	2899
85°	1499	2403	2539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.4	3.2
10°-20°	313.8	9.1
20°-30°	478.0	13.8
30°-40°	581.9	16.8
40°-50°	612.8	17.7
50°-60°	566.4	16.4
60°-70°	446.8	12.9
70°-80°	270.3	7.8
80°-90°	78.5	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°	901.3	26.1
0°-40°	1483.2	42.9
0°-60°	2662.4	77.0
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1154	1148	1150	1149	1157	110
15°	1108	1112	1113	1109	1109	313
25°	1035	1033	1038	1040	1044	477
35°	920	923	934	936	941	576
45°	784	785	797	803	802	602
55°	617	622	634	647	649	550
65°	428	437	453	468	472	421
75°	223	238	257	275	277	236
85°	47	58	76	78	80	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1149.9	1155.8	1157.4	1152.5	1152.0
5°	1153.6	1148.3	1149.9	1148.8	1157.4
7.5°	1156.3	1147.7	1144.5	1141.8	1139.7
10°	1140.8	1137.0	1136.0	1135.4	1139.7
12.5°	1121.0	1124.2	1125.2	1123.6	1129.5
15°	1107.6	1111.9	1112.9	1109.2	1108.7
17.5°	1097.4	1094.2	1100.1	1094.2	1102.2
20°	1073.3	1076.0	1076.5	1081.9	1084.6
22.5°	1051.9	1059.4	1059.4	1063.1	1056.2
25°	1035.3	1032.6	1038.0	1039.6	1044.4
27.5°	1008.5	1006.9	1015.5	1009.6	1017.6
30°	993.6	985.0	987.1	991.4	996.8
32.5°	945.9	958.8	962.0	964.1	963.0
35°	919.7	923.4	934.1	935.7	941.1
37.5°	887.6	886.5	899.9	905.2	899.9
40°	853.8	857.1	868.3	874.2	877.4
42.5°	812.6	820.1	833.0	839.4	838.8
45°	784.2	784.8	796.6	803.0	802.4
47.5°	743.0	747.8	759.1	768.7	766.0
50°	699.7	707.7	718.9	727.5	729.6
52.5°	654.7	664.3	676.1	693.2	684.1
55°	617.2	621.5	633.8	647.2	649.3
57.5°	572.8	577.6	592.1	603.8	607.6
60°	524.1	528.9	547.6	562.1	559.9
62.5°	478.6	486.1	502.1	515.0	513.4
65°	427.7	436.8	452.9	468.4	472.2
67.5°	373.7	386.0	406.3	423.4	424.0
70°	321.2	335.6	360.3	374.2	375.3
72.5°	274.6	285.3	311.0	326.0	327.1
75°	223.2	237.7	257.0	275.2	276.8
77.5°	173.4	188.4	210.4	228.0	231.8
80°	124.7	141.3	162.2	178.8	181.5
82.5°	81.9	98.0	118.3	133.3	133.3
85°	47.1	58.4	75.5	77.6	79.8
87.5°	15.5	22.5	28.4	30.5	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)