

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: P709632

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709632  
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-MID  
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

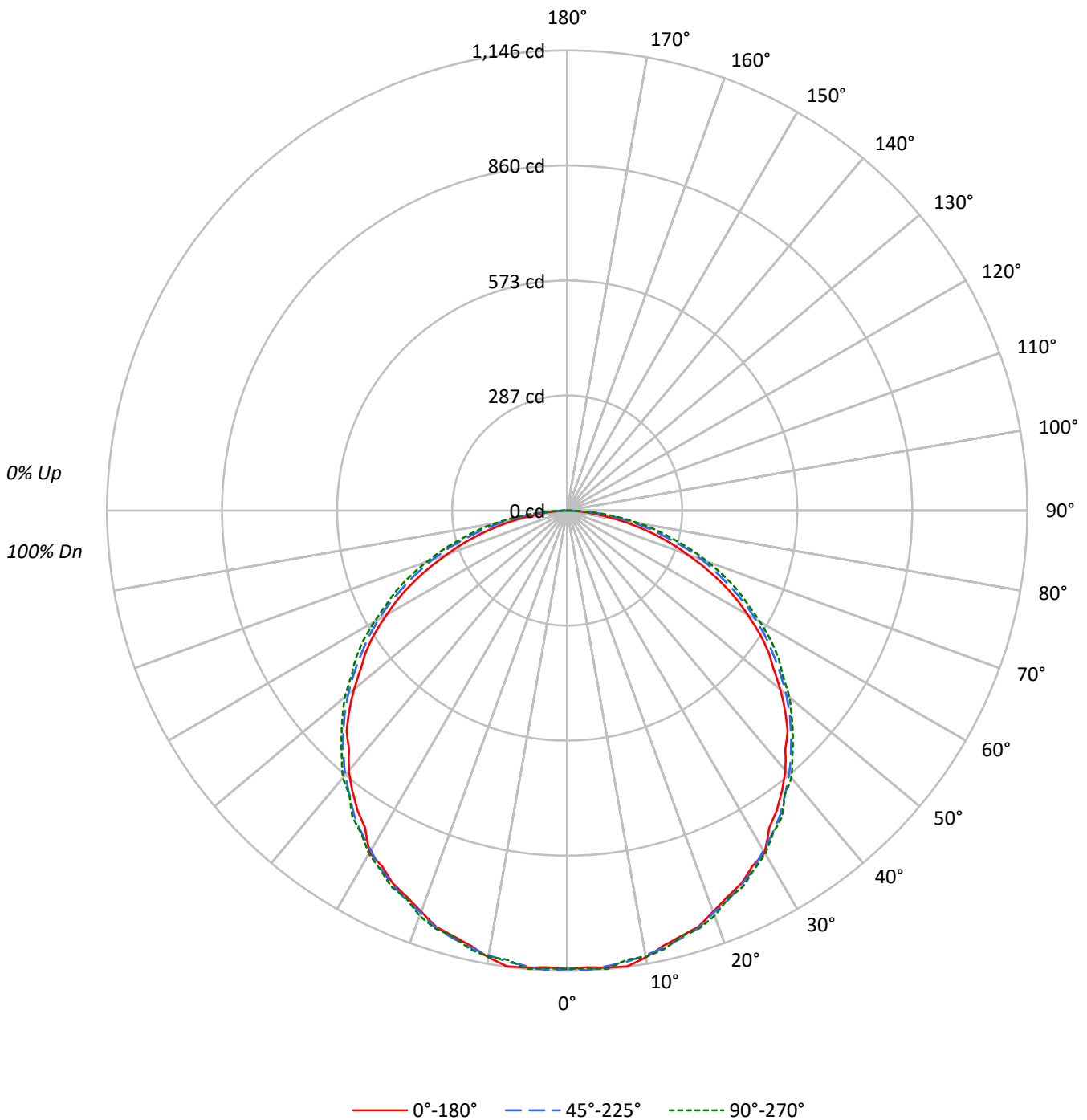
Lumens per Lamp: N/A  
Luminaire Lumens: 3424.0 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.2  
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°	3167	3167	3167
5°	3180	3170	3191
10°	3181	3168	3178
15°	3149	3164	3152
20°	3137	3146	3170
25°	3137	3145	3165
30°	3151	3130	3161
35°	3083	3132	3155
40°	3061	3113	3146
45°	3046	3094	3117
50°	2989	3072	3118
55°	2955	3035	3109
60°	2878	3008	3075
65°	2779	2943	3068
70°	2579	2893	3013
75°	2368	2726	2936
80°	1973	2565	2870
85°	1483	2377	2514



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	3.2
10°-20°	310.7	9.1
20°-30°	473.3	13.8
30°-40°	576.2	16.8
40°-50°	606.8	17.7
50°-60°	560.8	16.4
60°-70°	442.4	12.9
70°-80°	267.6	7.8
80°-90°	77.7	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°	892.4	26.1
0°-40°	1468.6	42.9
0°-60°	2636.2	77.0
0°-90°	3424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1142	1137	1139	1138	1146	109
15°	1097	1101	1102	1098	1098	310
25°	1025	1022	1028	1029	1034	472
35°	911	914	925	926	932	570
45°	776	777	789	795	795	596
55°	611	615	628	641	643	544
65°	424	432	448	464	468	417
75°	221	235	254	272	274	233
85°	47	58	75	77	79	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1138.6	1144.4	1146.0	1141.2	1140.7
5°	1142.3	1137.0	1138.6	1137.5	1146.0
7.5°	1144.9	1136.4	1133.3	1130.6	1128.5
10°	1129.6	1125.8	1124.8	1124.3	1128.5
12.5°	1109.9	1113.1	1114.2	1112.6	1118.4
15°	1096.7	1100.9	1102.0	1098.3	1097.8
17.5°	1086.6	1083.4	1089.3	1083.4	1091.4
20°	1062.8	1065.4	1065.9	1071.2	1073.9
22.5°	1041.6	1049.0	1049.0	1052.7	1045.8
25°	1025.1	1022.5	1027.8	1029.4	1034.1
27.5°	998.6	997.0	1005.5	999.7	1007.6
30°	983.8	975.3	977.4	981.7	987.0
32.5°	936.6	949.3	952.5	954.6	953.6
35°	910.6	914.4	925.0	926.5	931.8
37.5°	878.8	877.8	891.0	896.3	891.0
40°	845.4	848.6	859.8	865.6	868.8
42.5°	804.6	812.0	824.8	831.1	830.6
45°	776.5	777.1	788.7	795.1	794.6
47.5°	735.7	740.5	751.6	761.2	758.5
50°	692.8	700.7	711.9	720.3	722.5
52.5°	648.3	657.8	669.5	686.4	677.4
55°	611.2	615.4	627.6	640.8	643.0
57.5°	567.2	571.9	586.2	597.9	601.6
60°	518.9	523.7	542.2	556.6	554.4
62.5°	473.9	481.3	497.2	509.9	508.3
65°	423.5	432.5	448.4	463.8	467.5
67.5°	370.0	382.2	402.3	419.3	419.8
70°	318.0	332.3	356.7	370.5	371.6
72.5°	271.9	282.5	308.0	322.8	323.9
75°	221.0	235.3	254.4	272.4	274.0
77.5°	171.7	186.6	208.3	225.8	229.5
80°	123.5	139.9	160.6	177.0	179.7
82.5°	81.1	97.0	117.1	132.0	132.0
85°	46.6	57.8	74.7	76.9	79.0
87.5°	15.4	22.3	28.1	30.2	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)