

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: P709631

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709631  
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-LOW  
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

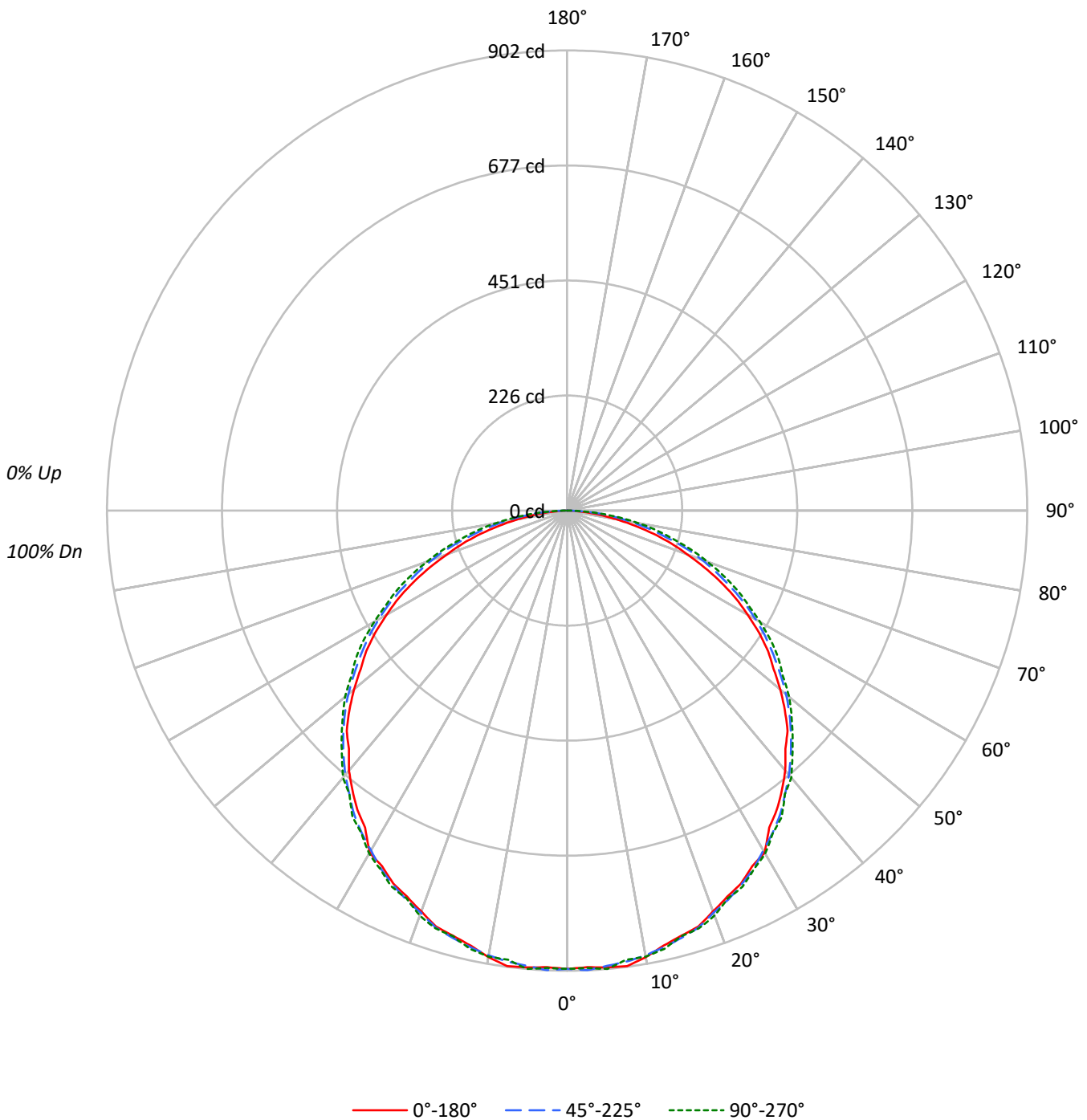
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2694.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 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): 20.1  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2491	2491	2491
5°	2502	2494	2510
10°	2503	2492	2501
15°	2478	2490	2480
20°	2468	2475	2494
25°	2468	2475	2490
30°	2479	2463	2487
35°	2426	2464	2483
40°	2408	2449	2475
45°	2397	2434	2452
50°	2352	2417	2453
55°	2325	2388	2446
60°	2265	2366	2420
65°	2187	2315	2414
70°	2029	2276	2371
75°	1864	2145	2310
80°	1553	2019	2258
85°	1168	1871	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	3.2
10°-20°	244.5	9.1
20°-30°	372.4	13.8
30°-40°	453.4	16.8
40°-50°	477.4	17.7
50°-60°	441.3	16.4
60°-70°	348.1	12.9
70°-80°	210.6	7.8
80°-90°	61.2	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°	702.1	26.1
0°-40°	1155.5	42.9
0°-60°	2074.2	77.0
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	899	895	896	895	902	86
15°	863	866	867	864	864	244
25°	807	804	809	810	814	371
35°	716	719	728	729	733	449
45°	611	611	621	626	625	469
55°	481	484	494	504	506	428
65°	333	340	353	365	368	328
75°	174	185	200	214	216	184
85°	37	46	59	60	62	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	898.3	898.3	898.3	898.3	898.3
2.5°	895.8	900.4	901.7	897.9	897.5
5°	898.7	894.6	895.8	895.0	901.7
7.5°	900.8	894.2	891.7	889.6	887.9
10°	888.7	885.8	885.0	884.6	887.9
12.5°	873.3	875.8	876.6	875.4	880.0
15°	862.9	866.2	867.0	864.1	863.7
17.5°	855.0	852.4	857.0	852.4	858.7
20°	836.2	838.3	838.7	842.9	844.9
22.5°	819.5	825.3	825.3	828.3	822.8
25°	806.6	804.5	808.7	809.9	813.7
27.5°	785.7	784.5	791.1	786.6	792.8
30°	774.0	767.4	769.0	772.4	776.5
32.5°	736.9	746.9	749.4	751.1	750.3
35°	716.5	719.4	727.8	729.0	733.2
37.5°	691.5	690.6	701.1	705.2	701.1
40°	665.2	667.7	676.5	681.0	683.5
42.5°	633.1	638.9	648.9	653.9	653.5
45°	611.0	611.4	620.6	625.6	625.2
47.5°	578.9	582.6	591.4	598.9	596.8
50°	545.1	551.3	560.1	566.8	568.4
52.5°	510.1	517.6	526.7	540.1	533.0
55°	480.9	484.2	493.8	504.2	505.9
57.5°	446.2	450.0	461.3	470.4	473.4
60°	408.3	412.0	426.6	437.9	436.2
62.5°	372.8	378.7	391.2	401.2	400.0
65°	333.2	340.3	352.8	364.9	367.8
67.5°	291.1	300.7	316.5	329.9	330.3
70°	250.2	261.5	280.7	291.5	292.4
72.5°	213.9	222.3	242.3	254.0	254.8
75°	173.9	185.2	200.2	214.4	215.6
77.5°	135.1	146.8	163.9	177.7	180.6
80°	97.2	110.1	126.4	139.3	141.4
82.5°	63.8	76.3	92.2	103.8	103.8
85°	36.7	45.5	58.8	60.5	62.1
87.5°	12.1	17.5	22.1	23.8	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)