

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: P709625

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709625
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-LOW
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

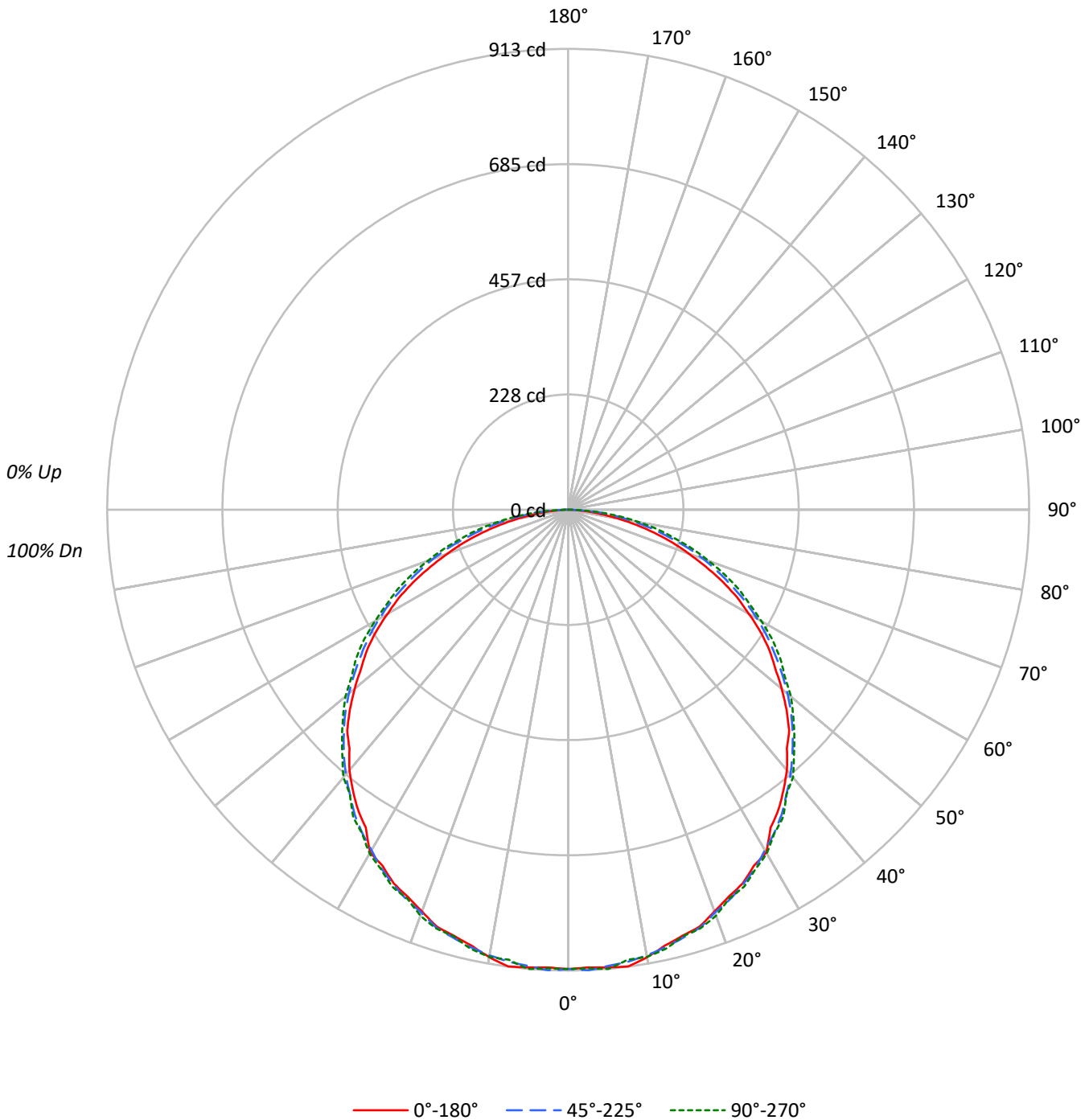
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2729.0 lumens
Efficiency: N/A
Efficacy: 135.1 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): 20.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	2524	2524	2524
5°	2535	2527	2543
10°	2536	2525	2533
15°	2510	2522	2512
20°	2500	2508	2526
25°	2501	2507	2522
30°	2511	2495	2519
35°	2457	2496	2515
40°	2440	2481	2507
45°	2428	2466	2484
50°	2383	2448	2485
55°	2355	2419	2478
60°	2294	2397	2451
65°	2216	2346	2445
70°	2056	2305	2401
75°	1888	2173	2340
80°	1572	2044	2287
85°	1184	1897	2002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.2
10°-20°	247.7	9.1
20°-30°	377.3	13.8
30°-40°	459.2	16.8
40°-50°	483.6	17.7
50°-60°	447.0	16.4
60°-70°	352.6	12.9
70°-80°	213.3	7.8
80°-90°	62.0	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°	711.3	26.1
0°-40°	1170.5	42.9
0°-60°	2101.1	77.0
0°-90°	2729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	910	906	908	907	913	87
15°	874	878	878	875	875	247
25°	817	815	819	820	824	376
35°	726	729	737	738	743	454
45°	619	619	629	634	633	475
55°	487	490	500	511	512	434
65°	338	345	357	370	373	332
75°	176	188	203	217	218	186
85°	37	46	60	61	63	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.0	910.0	910.0	910.0	910.0
2.5°	907.5	912.1	913.4	909.6	909.2
5°	910.4	906.2	907.5	906.6	913.4
7.5°	912.5	905.8	903.2	901.1	899.4
10°	900.3	897.3	896.5	896.1	899.4
12.5°	884.6	887.2	888.0	886.8	891.4
15°	874.1	877.5	878.3	875.4	874.9
17.5°	866.1	863.5	868.2	863.5	869.9
20°	847.0	849.2	849.6	853.8	855.9
22.5°	830.1	836.1	836.1	839.0	833.5
25°	817.1	814.9	819.2	820.4	824.2
27.5°	795.9	794.7	801.4	796.8	803.1
30°	784.1	777.3	779.0	782.4	786.6
32.5°	746.5	756.6	759.2	760.9	760.0
35°	725.8	728.8	737.2	738.5	742.7
37.5°	700.5	699.6	710.2	714.4	710.2
40°	673.8	676.4	685.2	689.9	692.4
42.5°	641.3	647.2	657.4	662.4	662.0
45°	618.9	619.3	628.6	633.7	633.3
47.5°	586.4	590.2	599.1	606.7	604.6
50°	552.2	558.5	567.4	574.1	575.8
52.5°	516.7	524.3	533.6	547.1	539.9
55°	487.1	490.5	500.2	510.8	512.5
57.5°	452.0	455.8	467.2	476.5	479.5
60°	413.6	417.4	432.2	443.6	441.9
62.5°	377.7	383.6	396.3	406.4	405.1
65°	337.6	344.7	357.4	369.7	372.6
67.5°	294.9	304.6	320.7	334.2	334.6
70°	253.5	264.9	284.3	295.3	296.1
72.5°	216.7	225.2	245.5	257.3	258.1
75°	176.2	187.6	202.8	217.1	218.4
77.5°	136.9	148.7	166.0	180.0	182.9
80°	98.4	111.5	128.0	141.1	143.2
82.5°	64.6	77.3	93.4	105.2	105.2
85°	37.2	46.0	59.6	61.3	62.9
87.5°	12.3	17.7	22.4	24.1	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)