

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: P709628

Luminaire Tested: **22ARS-L3C39-UNV-4000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709628
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-4000K-LOW
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

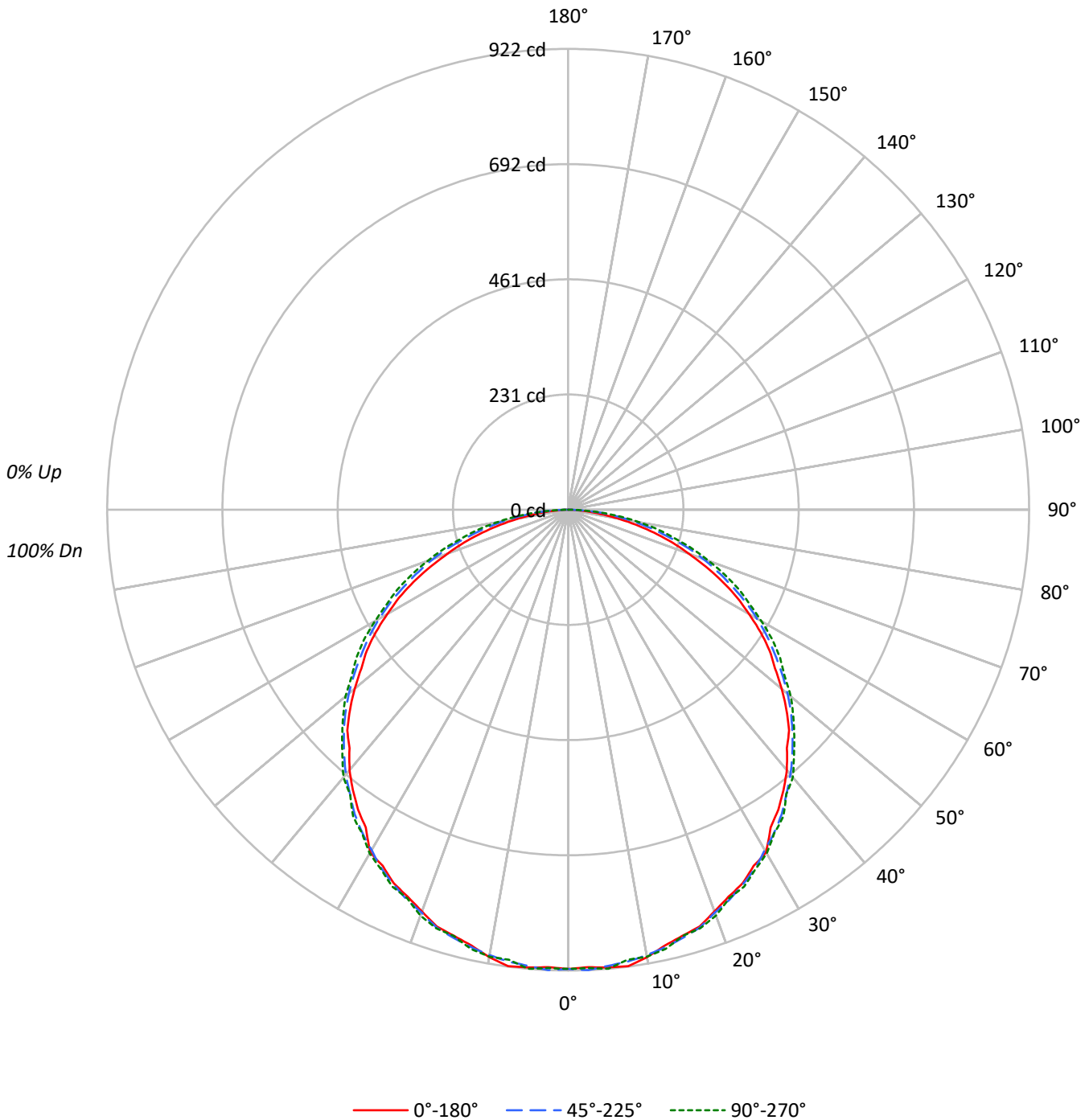
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2755.0 lumens
Efficiency: N/A
Efficacy: 139.8 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): 19.7
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

TEST NUMBER: P709628
CATALOG NUMBER: 22ARS-L3C39-UNV-4000K-LOW

Luminous Intensity Polar Plot





TEST NUMBER: P709628

CATALOG NUMBER: 22ARS-L3C39-UNV-4000K-LOW

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°	2548	2548	2548
5°	2559	2551	2567
10°	2560	2549	2557
15°	2534	2546	2536
20°	2524	2532	2550
25°	2524	2531	2546
30°	2535	2519	2543
35°	2481	2520	2539
40°	2463	2505	2531
45°	2451	2489	2508
50°	2405	2472	2508
55°	2378	2442	2501
60°	2316	2420	2475
65°	2237	2368	2469
70°	2075	2327	2425
75°	1905	2194	2363
80°	1588	2064	2310
85°	1193	1913	2021



TEST NUMBER: P709628

CATALOG NUMBER: 22ARS-L3C39-UNV-4000K-LOW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.2
10°-20°	250.0	9.1
20°-30°	380.9	13.8
30°-40°	463.6	16.8
40°-50°	488.2	17.7
50°-60°	451.3	16.4
60°-70°	356.0	12.9
70°-80°	215.3	7.8
80°-90°	62.5	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°	718.1	26.1
0°-40°	1181.7	42.9
0°-60°	2121.2	77.0
0°-90°	2755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	919	915	916	915	922	88
15°	882	886	887	884	883	250
25°	825	823	827	828	832	380
35°	733	736	744	746	750	459
45°	625	625	635	640	639	480
55°	492	495	505	516	517	438
65°	341	348	361	373	376	336
75°	178	189	205	219	220	188
85°	38	46	60	62	64	45
90°	0	0	0	0	0	



TEST NUMBER: P709628

CATALOG NUMBER: 22ARS-L3C39-UNV-4000K-LOW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.7	918.7	918.7	918.7	918.7
2.5°	916.1	920.8	922.1	918.2	917.8
5°	919.1	914.8	916.1	915.3	922.1
7.5°	921.2	914.4	911.8	909.7	908.0
10°	908.9	905.9	905.0	904.6	908.0
12.5°	893.1	895.6	896.5	895.2	899.9
15°	882.4	885.8	886.7	883.7	883.3
17.5°	874.3	871.8	876.4	871.8	878.1
20°	855.1	857.3	857.7	861.9	864.1
22.5°	838.1	844.0	844.0	847.0	841.5
25°	824.8	822.7	827.0	828.2	832.1
27.5°	803.5	802.2	809.1	804.4	810.8
30°	791.6	784.7	786.5	789.9	794.1
32.5°	753.6	763.8	766.4	768.1	767.3
35°	732.7	735.7	744.2	745.5	749.8
37.5°	707.1	706.3	716.9	721.2	716.9
40°	680.3	682.8	691.8	696.5	699.0
42.5°	647.4	653.4	663.6	668.7	668.3
45°	624.8	625.2	634.6	639.7	639.3
47.5°	592.0	595.8	604.8	612.4	610.3
50°	557.4	563.8	572.8	579.6	581.3
52.5°	521.6	529.3	538.7	552.3	545.1
55°	491.7	495.2	505.0	515.6	517.3
57.5°	456.3	460.2	471.7	481.1	484.1
60°	417.5	421.4	436.3	447.8	446.1
62.5°	381.3	387.3	400.1	410.3	409.0
65°	340.8	348.0	360.8	373.2	376.2
67.5°	297.7	307.5	323.7	337.4	337.8
70°	255.9	267.4	287.0	298.1	299.0
72.5°	218.8	227.3	247.8	259.7	260.6
75°	177.8	189.4	204.7	219.2	220.5
77.5°	138.2	150.1	167.6	181.7	184.7
80°	99.4	112.6	129.2	142.4	144.6
82.5°	65.3	78.0	94.3	106.2	106.2
85°	37.5	46.5	60.1	61.8	63.5
87.5°	12.4	17.9	22.6	24.3	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)