

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: P709974

Luminaire Tested: **22ARS-L3C3-NUV-3500K-MID**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ARS-L3C3-NUV-3500K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, MID LUMEN
OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

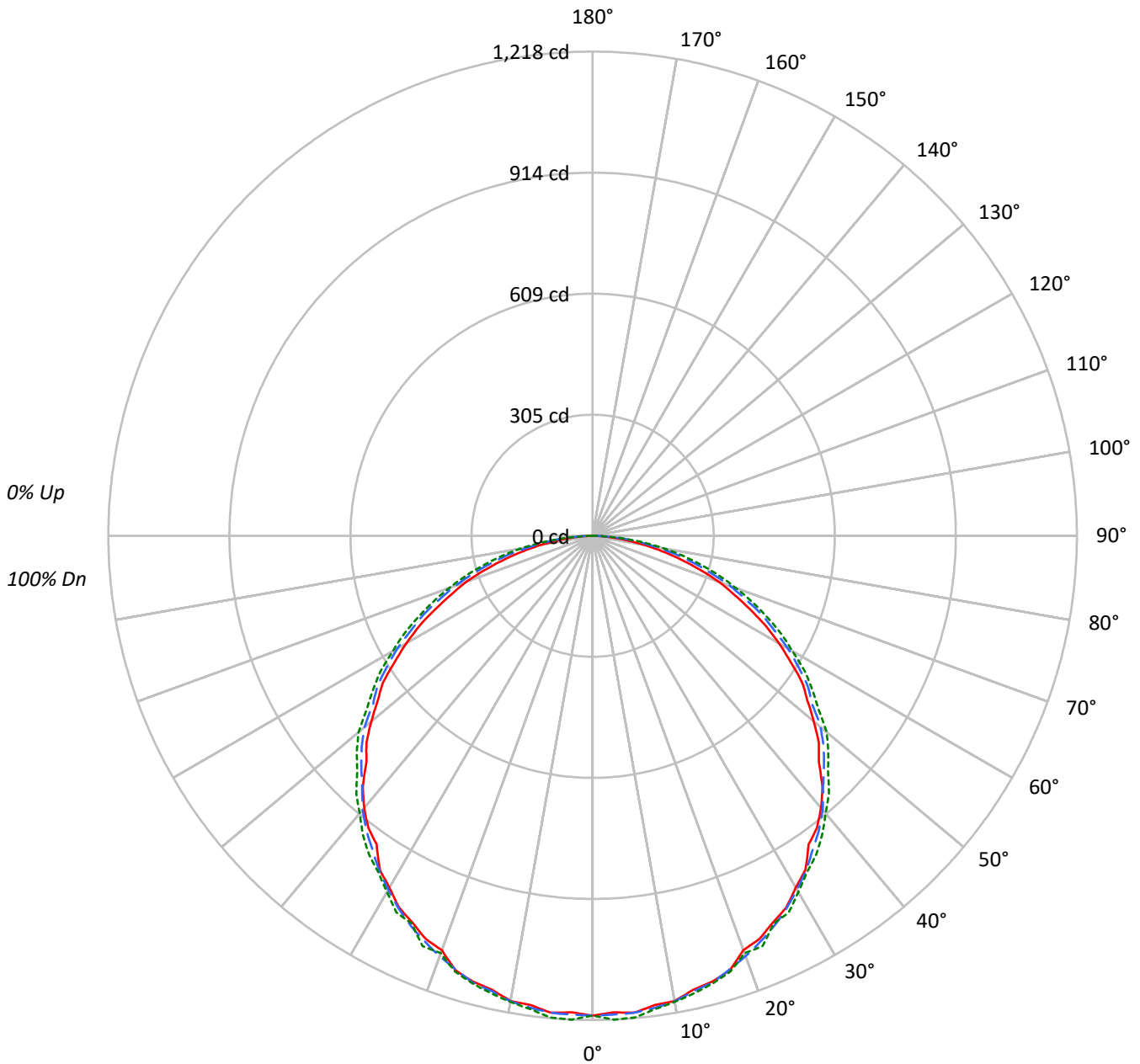
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3578.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 27.5
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	94	97	94	91	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	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3347	3347	3347
5°	3354	3354	3386
10°	3346	3350	3353
15°	3335	3342	3348
20°	3274	3322	3297
25°	3284	3312	3294
30°	3272	3291	3313
35°	3207	3267	3318
40°	3236	3257	3299
45°	3154	3227	3282
50°	3133	3229	3314
55°	3112	3196	3258
60°	3002	3144	3215
65°	2857	3078	3177
70°	2737	2973	3105
75°	2444	2807	3018
80°	2081	2565	2881
85°	1407	2259	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.2
10°-20°	328.2	9.2
20°-30°	499.0	13.9
30°-40°	605.1	16.9
40°-50°	636.0	17.8
50°-60°	586.3	16.4
60°-70°	458.8	12.8
70°-80°	274.1	7.7
80°-90°	76.2	2.1
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°	941.6	26.3
0°-40°	1546.6	43.2
0°-60°	2768.9	77.4
0°-90°	3578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1204	1196	1204	1212	1216	114
15°	1162	1157	1164	1167	1166	327
25°	1073	1079	1082	1094	1076	495
35°	947	961	965	972	980	600
45°	804	812	823	834	837	626
55°	644	645	661	669	674	570
65°	435	450	469	477	484	433
75°	228	243	262	277	282	243
85°	44	55	71	77	74	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1199.9	1206.9	1205.7	1213.8	1218.5
5°	1204.5	1196.4	1204.5	1211.5	1216.2
7.5°	1190.6	1192.9	1197.5	1199.9	1201.0
10°	1188.2	1183.6	1189.4	1196.4	1190.6
12.5°	1169.6	1167.3	1173.1	1189.4	1178.9
15°	1161.5	1156.8	1163.8	1167.3	1166.1
17.5°	1146.3	1144.0	1144.0	1151.0	1149.8
20°	1109.1	1124.2	1125.4	1139.4	1117.2
22.5°	1097.5	1103.3	1104.4	1114.9	1117.2
25°	1073.0	1078.8	1082.3	1094.0	1076.5
27.5°	1054.4	1050.9	1056.7	1059.1	1068.4
30°	1021.8	1019.5	1027.6	1034.6	1034.6
32.5°	996.2	995.0	998.5	1003.2	1003.2
35°	947.3	961.3	964.8	971.8	979.9
37.5°	926.4	922.9	934.5	945.0	948.5
40°	893.8	889.1	899.6	904.3	911.3
42.5°	855.4	855.4	857.7	875.2	879.8
45°	804.2	812.3	822.8	834.4	836.8
47.5°	771.6	768.1	787.9	794.9	804.2
50°	726.2	732.0	748.3	753.0	768.1
52.5°	680.8	686.6	696.0	711.1	715.7
55°	643.6	644.7	661.0	669.2	673.8
57.5°	590.0	595.9	613.3	622.6	631.9
60°	541.2	544.7	566.8	578.4	579.6
62.5°	491.1	500.4	514.4	529.5	535.3
65°	435.3	450.4	469.0	477.2	484.1
67.5°	384.1	394.5	415.5	431.8	434.1
70°	337.5	345.6	366.6	379.4	382.9
72.5°	281.6	294.4	311.9	330.5	334.0
75°	228.1	243.2	261.9	277.0	281.6
77.5°	178.1	192.0	211.8	224.6	232.8
80°	130.3	139.7	160.6	175.7	180.4
82.5°	83.8	95.4	115.2	130.3	130.3
85°	44.2	54.7	71.0	76.8	74.5
87.5°	15.1	20.9	24.4	27.9	29.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)