

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: P709980

Luminaire Tested: **22ARS-L3C3-NUV-5000K-MID**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709980
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-5000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

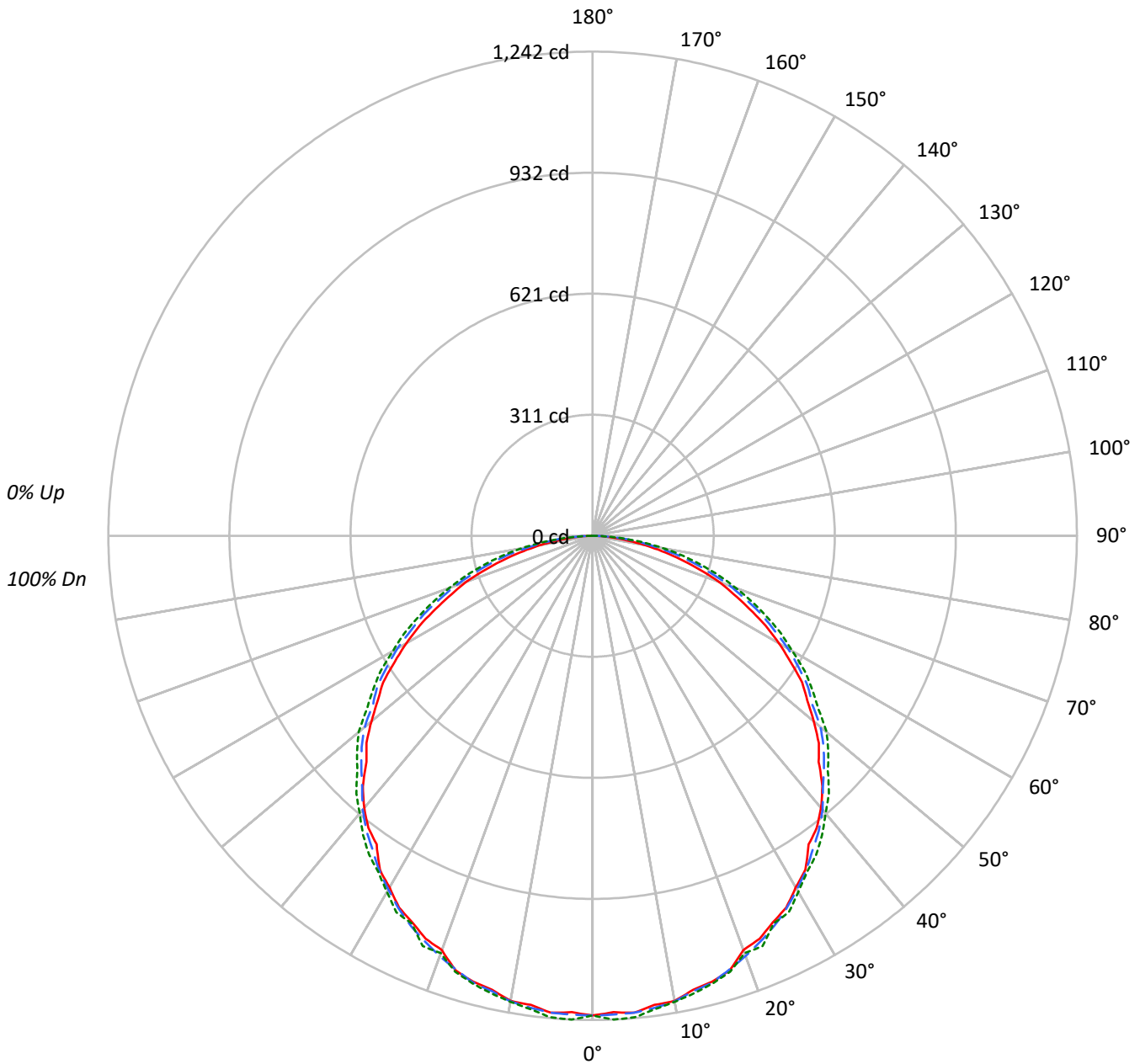
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648.0 lumens
Efficiency: N/A
Efficacy: 132.7 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°	3413	3413	3413
5°	3419	3419	3452
10°	3412	3415	3419
15°	3400	3407	3414
20°	3338	3387	3362
25°	3348	3377	3359
30°	3337	3355	3378
35°	3270	3331	3383
40°	3299	3321	3364
45°	3216	3291	3346
50°	3195	3292	3379
55°	3173	3259	3322
60°	3061	3206	3278
65°	2913	3138	3239
70°	2790	3031	3166
75°	2493	2861	3077
80°	2123	2615	2937
85°	1435	2304	2415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.2
10°-20°	334.6	9.2
20°-30°	508.7	13.9
30°-40°	616.9	16.9
40°-50°	648.4	17.8
50°-60°	597.8	16.4
60°-70°	467.8	12.8
70°-80°	279.4	7.7
80°-90°	77.7	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°	960.0	26.3
0°-40°	1576.9	43.2
0°-60°	2823.1	77.4
0°-90°	3648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1228	1220	1228	1235	1240	116
15°	1184	1179	1187	1190	1189	333
25°	1094	1100	1104	1115	1098	505
35°	966	980	984	991	999	611
45°	820	828	839	851	853	638
55°	656	657	674	682	687	581
65°	444	459	478	486	494	441
75°	233	248	267	282	287	248
85°	45	56	72	78	76	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.5	1230.5	1230.5	1230.5	1230.5
2.5°	1223.3	1230.5	1229.3	1237.6	1242.3
5°	1228.1	1219.8	1228.1	1235.2	1240.0
7.5°	1213.9	1216.2	1221.0	1223.3	1224.5
10°	1211.5	1206.7	1212.7	1219.8	1213.9
12.5°	1192.5	1190.1	1196.1	1212.7	1202.0
15°	1184.2	1179.4	1186.6	1190.1	1188.9
17.5°	1168.8	1166.4	1166.4	1173.5	1172.3
20°	1130.8	1146.2	1147.4	1161.6	1139.1
22.5°	1118.9	1124.9	1126.1	1136.7	1139.1
25°	1094.0	1099.9	1103.5	1115.4	1097.6
27.5°	1075.0	1071.5	1077.4	1079.8	1089.3
30°	1041.8	1039.4	1047.7	1054.9	1054.9
32.5°	1015.7	1014.5	1018.1	1022.8	1022.8
35°	965.9	980.1	983.7	990.8	999.1
37.5°	944.5	940.9	952.8	963.5	967.1
40°	911.3	906.5	917.2	922.0	929.1
42.5°	872.1	872.1	874.5	892.3	897.0
45°	819.9	828.2	838.9	850.8	853.1
47.5°	786.7	783.1	803.3	810.4	819.9
50°	740.4	746.3	763.0	767.7	783.1
52.5°	694.1	700.1	709.6	725.0	729.7
55°	656.2	657.4	674.0	682.3	687.0
57.5°	601.6	607.5	625.3	634.8	644.3
60°	551.8	555.3	577.9	589.7	590.9
62.5°	500.7	510.2	524.5	539.9	545.8
65°	443.8	459.2	478.2	486.5	493.6
67.5°	391.6	402.2	423.6	440.2	442.6
70°	344.1	352.4	373.8	386.8	390.4
72.5°	287.1	300.2	318.0	337.0	340.5
75°	232.6	248.0	267.0	282.4	287.1
77.5°	181.5	195.8	216.0	229.0	237.3
80°	132.9	142.4	163.7	179.2	183.9
82.5°	85.4	97.3	117.5	132.9	132.9
85°	45.1	55.8	72.4	78.3	75.9
87.5°	15.4	21.4	24.9	28.5	29.7
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)