

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: P709986

Luminaire Tested: **24ARS-L3C3-NUV-4000K-MID**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ARS-L3C3-NUV-4000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

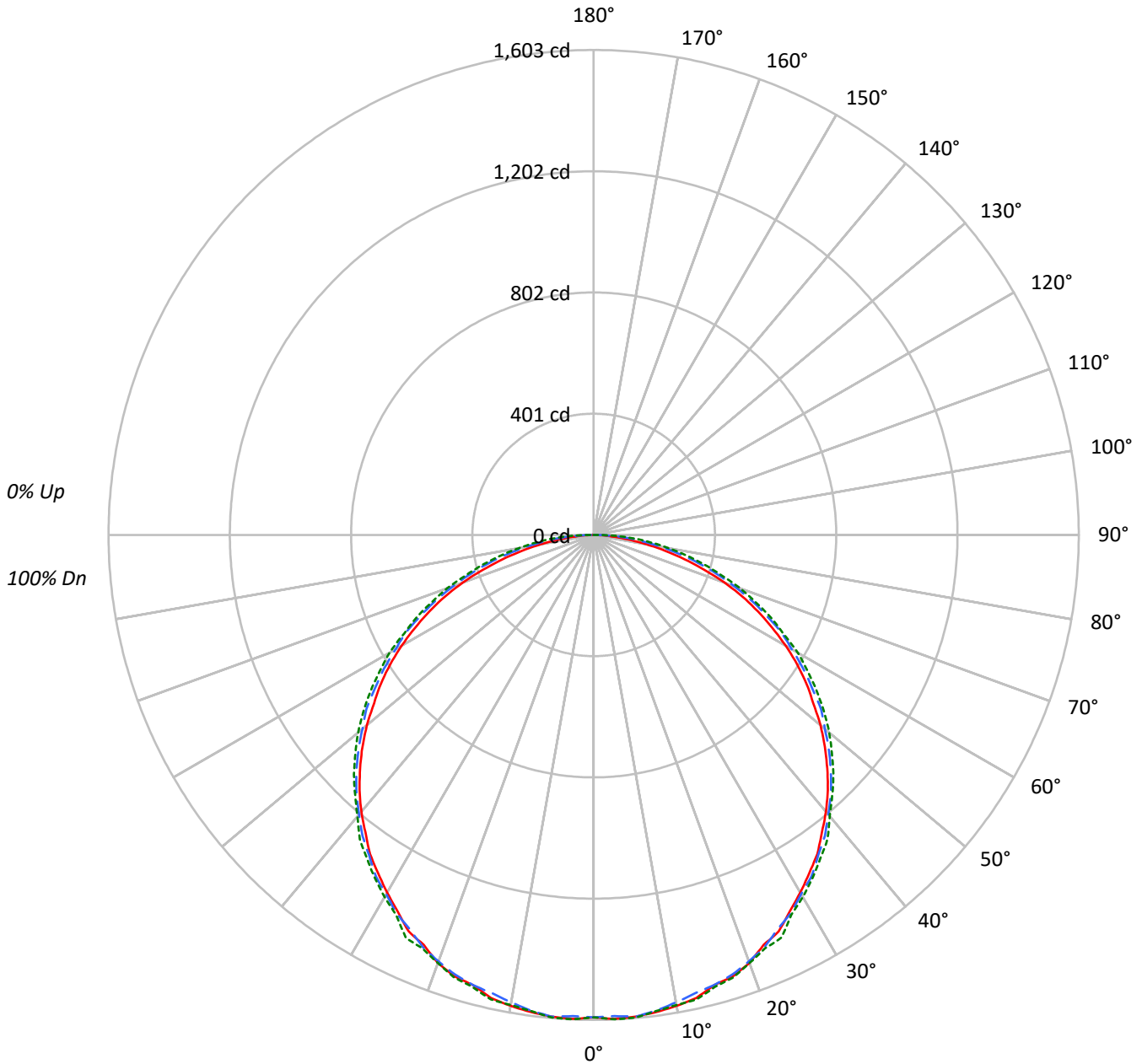
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 33.2
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									
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	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	95	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°	2424	2424	2424
5°	2438	2438	2443
10°	2440	2421	2434
15°	2424	2424	2434
20°	2435	2426	2436
25°	2425	2411	2463
30°	2395	2406	2426
35°	2390	2400	2423
40°	2369	2393	2408
45°	2346	2383	2408
50°	2313	2358	2402
55°	2276	2334	2385
60°	2226	2297	2369
65°	2153	2265	2324
70°	2042	2189	2287
75°	1827	2100	2229
80°	1542	1959	2202
85°	1052	1941	2344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.1
10°-20°	436.7	9.1
20°-30°	666.7	13.8
30°-40°	810.7	16.8
40°-50°	854.1	17.7
50°-60°	787.5	16.4
60°-70°	620.2	12.9
70°-80°	372.0	7.7
80°-90°	116.4	2.4
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°	1255.1	26.1
0°-40°	2065.8	42.9
0°-60°	3707.4	77.0
0°-90°	4816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1598	1590	1598	1605	1601	152
15°	1540	1540	1540	1564	1547	437
25°	1446	1435	1438	1465	1469	664
35°	1288	1278	1293	1307	1306	804
45°	1091	1093	1109	1124	1120	842
55°	859	872	881	897	900	767
65°	599	617	630	645	646	592
75°	311	334	358	372	380	331
85°	60	82	111	134	134	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.6	1594.6	1594.6	1594.6	1594.6
2.5°	1601.3	1594.0	1592.0	1597.3	1602.6
5°	1598.0	1590.0	1598.0	1604.6	1601.3
7.5°	1590.7	1584.1	1586.0	1588.7	1587.4
10°	1580.7	1572.1	1568.8	1584.1	1577.4
12.5°	1567.5	1554.9	1551.6	1574.8	1572.8
15°	1540.3	1540.3	1540.3	1563.5	1547.0
17.5°	1529.7	1518.5	1523.8	1540.3	1533.7
20°	1505.2	1492.7	1499.9	1509.9	1505.9
22.5°	1466.8	1470.8	1474.8	1490.7	1479.4
25°	1446.3	1435.1	1437.7	1464.9	1468.8
27.5°	1402.6	1406.6	1409.9	1423.8	1414.5
30°	1364.9	1366.2	1370.8	1387.4	1382.1
32.5°	1325.8	1325.8	1339.0	1354.3	1345.6
35°	1288.0	1278.1	1293.3	1306.6	1305.9
37.5°	1239.0	1239.0	1254.3	1264.2	1268.8
40°	1194.0	1195.3	1205.9	1216.5	1213.9
42.5°	1145.0	1149.0	1160.2	1170.2	1166.8
45°	1091.4	1092.7	1108.6	1124.5	1120.5
47.5°	1036.4	1041.0	1054.3	1069.5	1067.5
50°	978.1	982.7	997.3	1013.9	1015.9
52.5°	914.5	926.5	947.0	957.6	959.6
55°	858.9	872.2	880.8	896.7	900.0
57.5°	798.0	804.6	820.5	833.7	837.7
60°	732.4	738.4	755.6	774.8	779.4
62.5°	665.5	676.8	700.0	712.6	706.6
65°	598.7	617.2	629.8	645.0	646.3
67.5°	531.1	545.0	562.9	580.1	578.1
70°	459.6	470.8	492.7	507.3	514.6
72.5°	383.4	399.3	423.8	441.0	441.7
75°	311.2	334.4	357.6	371.5	379.5
77.5°	243.0	262.9	289.4	309.3	313.9
80°	176.2	196.0	223.8	242.4	251.6
82.5°	112.6	133.8	164.2	186.7	190.7
85°	60.3	81.5	111.3	133.8	134.4
87.5°	19.9	39.1	58.3	69.5	72.8
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)