

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: P709983

Luminaire Tested: **24ARS-L3C3-NUV-3500K-MID**

Issue Date: 10/4/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709983  
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-3500K-MID  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

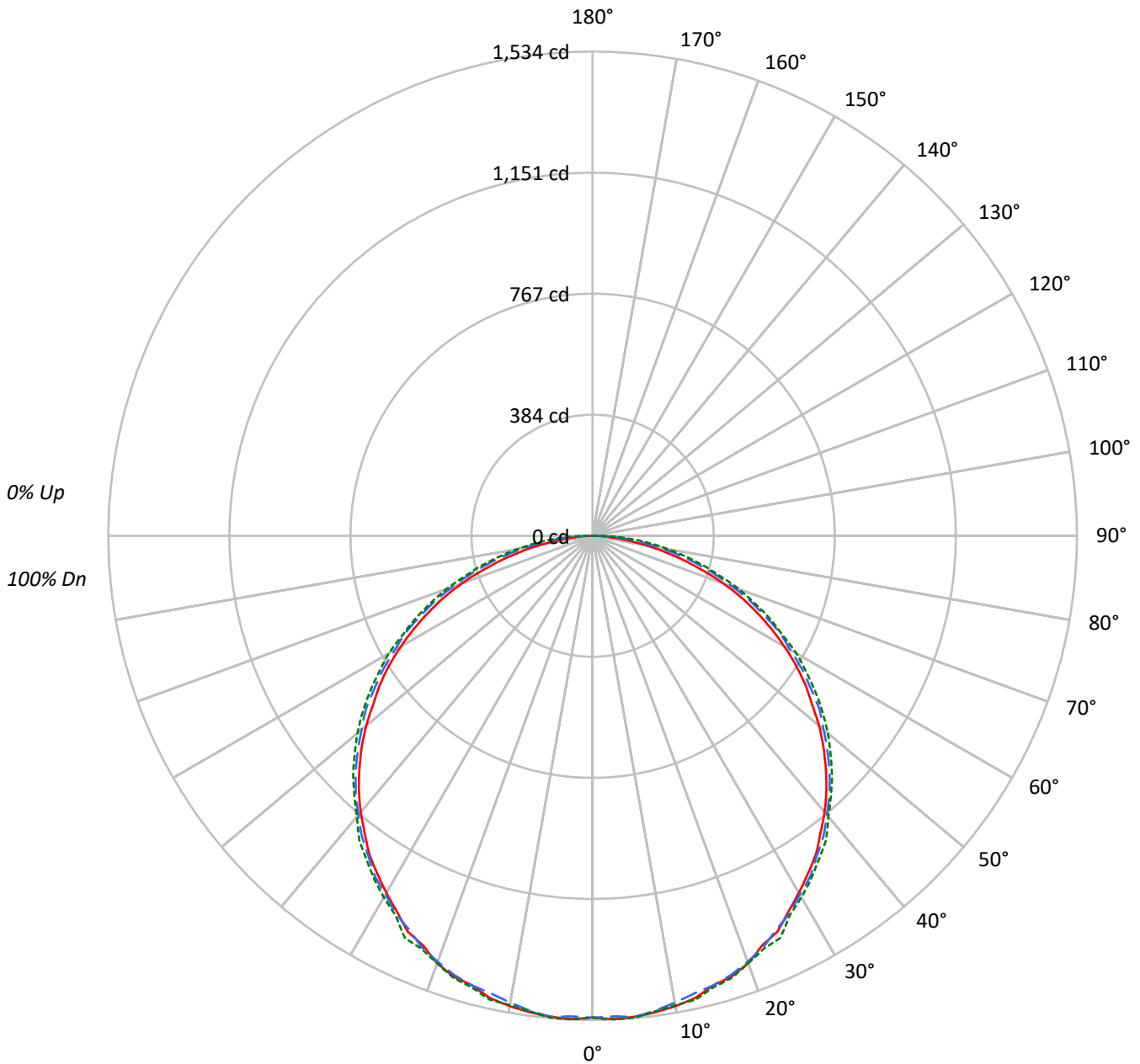
Lumens per Lamp: N/A  
Luminaire Lumens: 4610.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2320	2320	2320
5°	2334	2334	2339
10°	2335	2318	2330
15°	2320	2320	2330
20°	2331	2322	2332
25°	2322	2308	2358
30°	2293	2303	2322
35°	2288	2297	2319
40°	2268	2290	2305
45°	2246	2281	2305
50°	2214	2257	2299
55°	2179	2234	2283
60°	2131	2199	2268
65°	2061	2168	2225
70°	1955	2096	2189
75°	1749	2010	2133
80°	1476	1876	2109
85°	1006	1857	2244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	3.1
10°-20°	418.1	9.1
20°-30°	638.2	13.8
30°-40°	776.0	16.8
40°-50°	817.5	17.7
50°-60°	753.8	16.4
60°-70°	593.6	12.9
70°-80°	356.1	7.7
80°-90°	111.5	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°	1201.4	26.1
0°-40°	1977.4	42.9
0°-60°	3548.8	77.0
0°-90°	4610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4610.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1530	1522	1530	1536	1533	145
15°	1474	1474	1474	1497	1481	418
25°	1384	1374	1376	1402	1406	635
35°	1233	1223	1238	1251	1250	770
45°	1045	1046	1061	1076	1073	806
55°	822	835	843	858	862	734
65°	573	591	603	617	619	566
75°	298	320	342	356	363	317
85°	58	78	106	128	129	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1532.8	1525.8	1523.9	1529.0	1534.0
5°	1529.6	1522.0	1529.6	1535.9	1532.8
7.5°	1522.6	1516.3	1518.2	1520.7	1519.5
10°	1513.1	1504.9	1501.7	1516.3	1510.0
12.5°	1500.4	1488.4	1485.2	1507.4	1505.5
15°	1474.5	1474.5	1474.5	1496.6	1480.8
17.5°	1464.3	1453.5	1458.6	1474.5	1468.1
20°	1440.9	1428.8	1435.8	1445.3	1441.5
22.5°	1404.1	1407.9	1411.7	1426.9	1416.1
25°	1384.4	1373.7	1376.2	1402.2	1406.0
27.5°	1342.6	1346.4	1349.6	1362.9	1354.0
30°	1306.5	1307.7	1312.2	1328.0	1323.0
32.5°	1269.1	1269.1	1281.8	1296.3	1288.1
35°	1232.9	1223.4	1238.0	1250.7	1250.1
37.5°	1186.0	1186.0	1200.6	1210.1	1214.6
40°	1142.9	1144.2	1154.3	1164.5	1161.9
42.5°	1096.0	1099.8	1110.6	1120.1	1116.9
45°	1044.7	1045.9	1061.2	1076.4	1072.6
47.5°	992.1	996.5	1009.2	1023.8	1021.9
50°	936.3	940.7	954.7	970.5	972.4
52.5°	875.4	886.8	906.5	916.6	918.5
55°	822.2	834.8	843.1	858.3	861.5
57.5°	763.9	770.2	785.4	798.1	801.9
60°	701.1	706.8	723.3	741.7	746.1
62.5°	637.1	647.8	670.0	682.1	676.4
65°	573.0	590.8	602.8	617.4	618.7
67.5°	508.4	521.7	538.8	555.3	553.4
70°	439.9	450.7	471.6	485.6	492.5
72.5°	367.0	382.2	405.7	422.2	422.8
75°	297.9	320.1	342.3	355.6	363.2
77.5°	232.6	251.7	277.0	296.0	300.5
80°	168.6	187.6	214.3	232.0	240.9
82.5°	107.8	128.0	157.2	178.8	182.6
85°	57.7	78.0	106.5	128.0	128.7
87.5°	19.0	37.4	55.8	66.6	69.7
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)