

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: P709656

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24ARS-L3C3-UNV-4000K-MID  
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

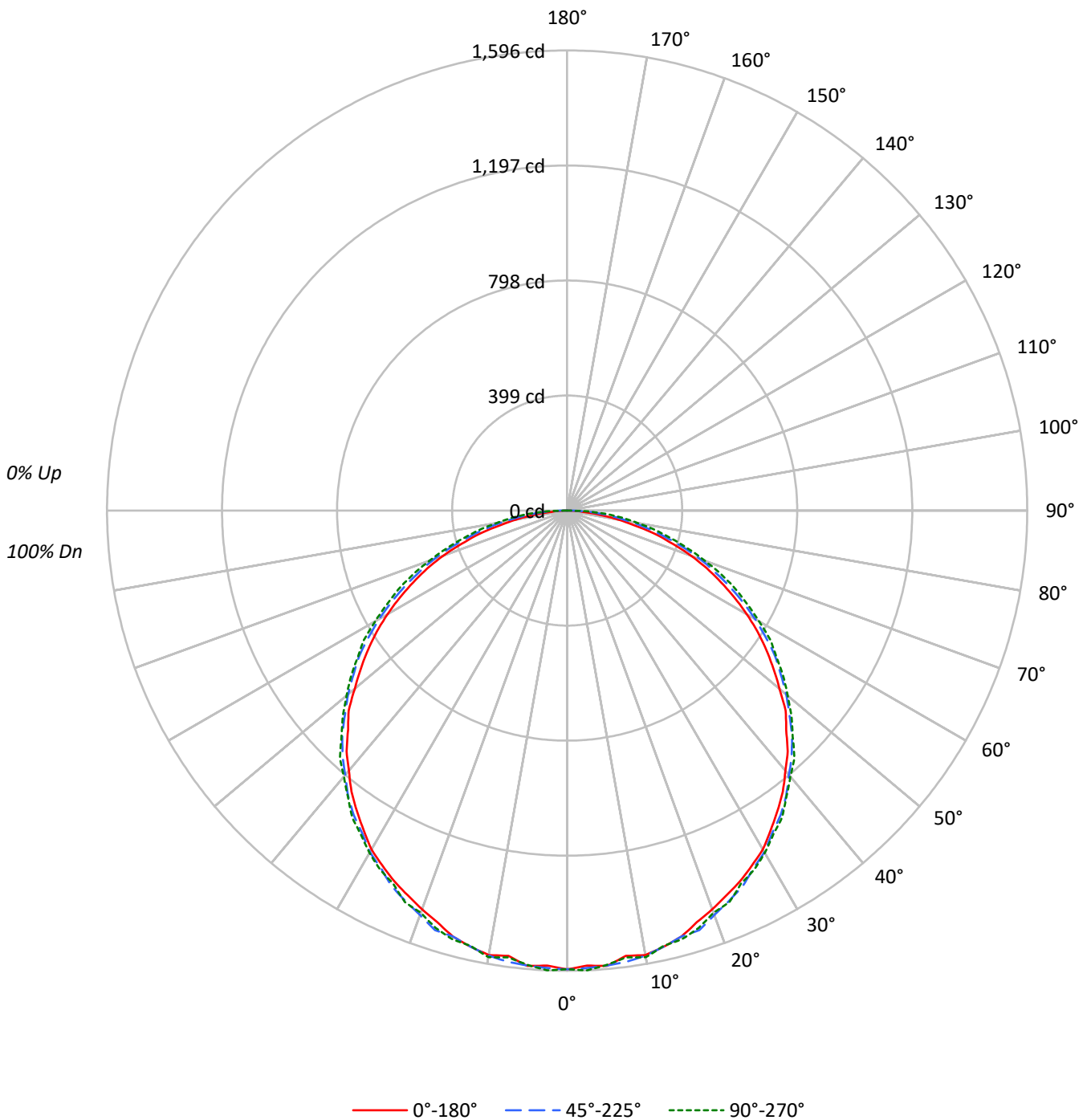
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4777.0 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): 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				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	87		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	60		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	44		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°	2418	2418	2418
5°	2419	2417	2413
10°	2415	2419	2427
15°	2407	2407	2422
20°	2380	2414	2401
25°	2379	2412	2394
30°	2383	2400	2406
35°	2360	2393	2411
40°	2337	2375	2390
45°	2309	2371	2378
50°	2274	2344	2361
55°	2236	2333	2348
60°	2188	2287	2339
65°	2120	2232	2320
70°	2034	2178	2252
75°	1869	2063	2198
80°	1575	1940	2180
85°	1067	1934	2398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	3.2
10°-20°	433.2	9.1
20°-30°	660.5	13.8
30°-40°	805.1	16.9
40°-50°	846.8	17.7
50°-60°	780.9	16.3
60°-70°	613.3	12.8
70°-80°	369.7	7.7
80°-90°	116.9	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°	1244.4	26.0
0°-40°	2049.5	42.9
0°-60°	3677.1	77.0
0°-90°	4777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4777.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1585	1587	1584	1592	1582	150
15°	1530	1543	1530	1541	1539	430
25°	1419	1433	1438	1430	1428	654
35°	1272	1284	1290	1294	1299	796
45°	1074	1086	1103	1111	1106	831
55°	844	866	880	888	886	754
65°	590	602	620	638	645	583
75°	318	327	351	369	374	333
85°	61	81	111	132	138	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.9	1590.9	1590.9	1590.9	1590.9
2.5°	1579.4	1585.2	1588.1	1591.7	1596.0
5°	1585.2	1586.6	1584.5	1592.4	1581.6
7.5°	1557.8	1582.3	1578.0	1579.4	1562.9
10°	1565.0	1562.9	1567.2	1572.2	1572.9
12.5°	1549.2	1552.8	1548.5	1561.4	1546.3
15°	1529.8	1542.7	1529.8	1541.3	1539.1
17.5°	1496.6	1501.0	1525.4	1514.6	1517.5
20°	1471.4	1490.2	1492.3	1490.9	1484.4
22.5°	1444.1	1458.5	1465.7	1472.9	1470.0
25°	1418.9	1433.3	1438.3	1429.7	1427.5
27.5°	1387.9	1394.4	1398.7	1413.9	1404.5
30°	1357.7	1357.7	1367.8	1373.5	1370.7
32.5°	1313.8	1328.2	1324.6	1331.1	1331.8
35°	1272.0	1284.3	1290.0	1293.6	1299.4
37.5°	1228.8	1237.5	1247.6	1251.9	1249.7
40°	1177.7	1184.9	1197.2	1205.8	1204.4
42.5°	1132.4	1143.9	1152.5	1159.7	1166.9
45°	1074.1	1086.3	1102.9	1110.8	1106.5
47.5°	1028.0	1032.3	1045.3	1053.2	1055.3
50°	961.8	986.2	991.3	1007.1	998.5
52.5°	902.7	925.1	934.4	945.9	945.2
55°	843.7	866.0	880.4	887.6	886.2
57.5°	783.2	801.2	816.3	826.4	835.8
60°	719.9	735.7	752.3	765.2	769.6
62.5°	654.4	672.4	686.8	709.1	704.8
65°	589.6	602.5	620.5	638.5	645.0
67.5°	524.8	538.5	553.6	570.9	578.8
70°	457.8	469.4	490.2	501.8	506.8
72.5°	383.7	399.5	421.1	437.0	440.6
75°	318.2	326.8	351.3	369.3	374.3
77.5°	242.6	262.8	287.2	305.2	313.9
80°	180.0	197.2	221.7	241.9	249.1
82.5°	120.2	136.1	163.4	187.9	193.6
85°	61.2	81.3	110.9	131.7	137.5
87.5°	20.9	38.2	59.8	69.1	72.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)