

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: P709659

Luminaire Tested: **24ARS-L3C3-UNV-5000K-MID**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709659  
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-5000K-MID  
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

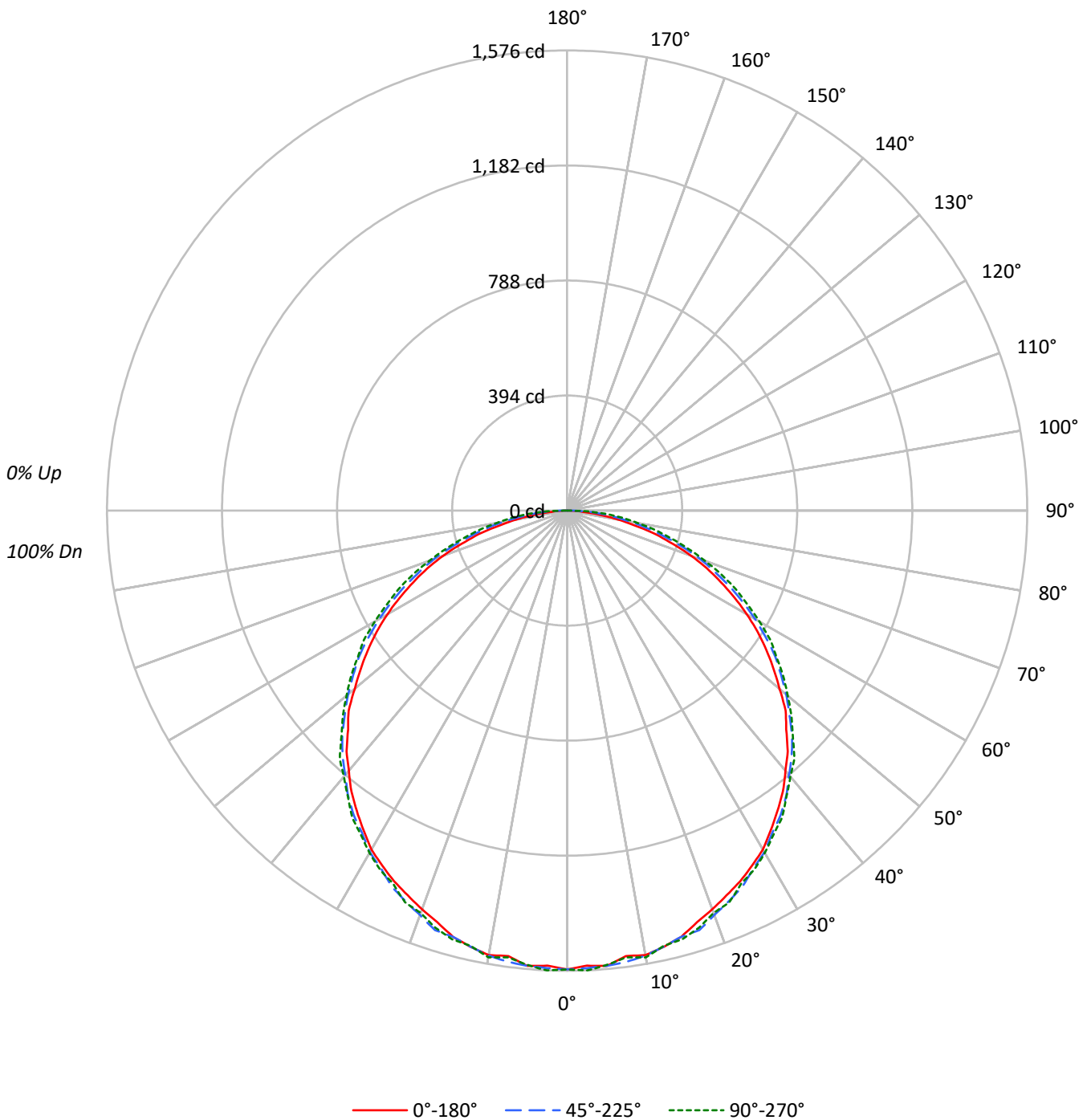
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4718.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 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): 34.5  
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				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°	2388	2388	2388
5°	2389	2388	2383
10°	2386	2389	2398
15°	2377	2377	2392
20°	2351	2384	2371
25°	2350	2382	2364
30°	2353	2371	2376
35°	2331	2364	2381
40°	2308	2346	2360
45°	2280	2341	2349
50°	2246	2315	2332
55°	2208	2304	2319
60°	2161	2259	2311
65°	2094	2204	2291
70°	2009	2152	2224
75°	1846	2038	2171
80°	1555	1917	2153
85°	1053	1910	2368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	3.2
10°-20°	427.9	9.1
20°-30°	652.3	13.8
30°-40°	795.1	16.9
40°-50°	836.3	17.7
50°-60°	771.2	16.3
60°-70°	605.7	12.8
70°-80°	365.1	7.7
80°-90°	115.5	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°	1229.0	26.0
0°-40°	2024.2	42.9
0°-60°	3631.7	77.0
0°-90°	4718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1566	1567	1565	1573	1562	148
15°	1511	1524	1511	1522	1520	425
25°	1401	1416	1421	1412	1410	646
35°	1256	1268	1274	1278	1283	786
45°	1061	1073	1089	1097	1093	821
55°	833	855	870	877	875	745
65°	582	595	613	631	637	576
75°	314	323	347	365	370	329
85°	60	80	110	130	136	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1571.3	1571.3	1571.3	1571.3	1571.3
2.5°	1559.9	1565.6	1568.4	1572.0	1576.3
5°	1565.6	1567.0	1564.9	1572.7	1562.1
7.5°	1538.6	1562.8	1558.5	1559.9	1543.6
10°	1545.7	1543.6	1547.8	1552.8	1553.5
12.5°	1530.1	1533.6	1529.3	1542.1	1527.2
15°	1510.9	1523.7	1510.9	1522.2	1520.1
17.5°	1478.2	1482.4	1506.6	1495.9	1498.8
20°	1453.3	1471.8	1473.9	1472.5	1466.1
22.5°	1426.3	1440.5	1447.6	1454.7	1451.8
25°	1401.4	1415.6	1420.6	1412.0	1409.9
27.5°	1370.8	1377.2	1381.5	1396.4	1387.1
30°	1340.9	1340.9	1350.9	1356.6	1353.7
32.5°	1297.6	1311.8	1308.2	1314.6	1315.3
35°	1256.3	1268.4	1274.1	1277.7	1283.3
37.5°	1213.7	1222.2	1232.2	1236.4	1234.3
40°	1163.2	1170.3	1182.4	1190.9	1189.5
42.5°	1118.4	1129.8	1138.3	1145.4	1152.5
45°	1060.8	1072.9	1089.2	1097.1	1092.8
47.5°	1015.3	1019.6	1032.4	1040.2	1042.3
50°	949.9	974.1	979.0	994.7	986.1
52.5°	891.6	913.6	922.9	934.2	933.5
55°	833.3	855.3	869.5	876.7	875.2
57.5°	773.6	791.3	806.3	816.2	825.5
60°	711.0	726.6	743.0	755.8	760.1
62.5°	646.3	664.1	678.3	700.3	696.1
65°	582.3	595.1	612.9	630.7	637.0
67.5°	518.3	531.8	546.8	563.8	571.6
70°	452.2	463.6	484.2	495.6	500.5
72.5°	379.0	394.6	415.9	431.6	435.1
75°	314.3	322.8	347.0	364.7	369.7
77.5°	239.6	259.5	283.7	301.5	310.0
80°	177.7	194.8	219.0	238.9	246.0
82.5°	118.7	134.4	161.4	185.6	191.3
85°	60.4	80.3	109.5	130.1	135.8
87.5°	20.6	37.7	59.0	68.3	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)