

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: P709668

Luminaire Tested: **24ARS-L3C39-UNV-5000K-MID**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709668  
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-L3C39-UNV-5000K-MID  
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

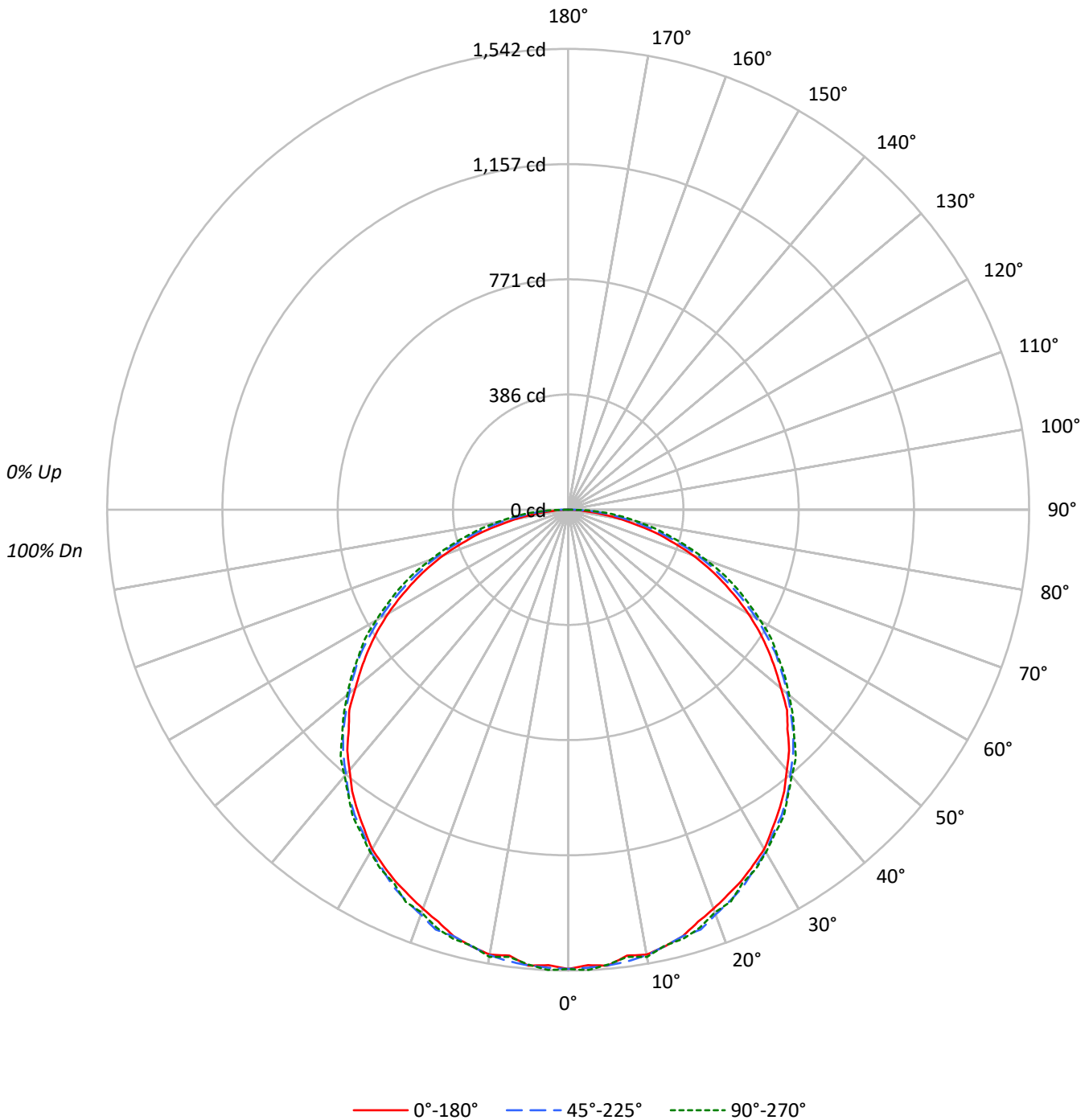
Lumens per Lamp: N/A  
Luminaire Lumens: 4614.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.8  
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

TEST NUMBER: P709668

CATALOG NUMBER: 24ARS-L3C39-UNV-5000K-MID

### Luminous Intensity Polar Plot





TEST NUMBER: P709668

CATALOG NUMBER: 24ARS-L3C39-UNV-5000K-MID

**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°	2336	2336	2336
5°	2336	2335	2331
10°	2333	2336	2345
15°	2325	2325	2339
20°	2299	2331	2319
25°	2298	2330	2312
30°	2302	2319	2323
35°	2280	2312	2329
40°	2257	2294	2308
45°	2230	2290	2297
50°	2196	2264	2280
55°	2159	2253	2268
60°	2114	2209	2259
65°	2048	2156	2241
70°	1965	2104	2175
75°	1805	1992	2123
80°	1521	1875	2106
85°	1031	1868	2316



TEST NUMBER: P709668

CATALOG NUMBER: 24ARS-L3C39-UNV-5000K-MID

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	3.2
10°-20°	418.4	9.1
20°-30°	637.9	13.8
30°-40°	777.6	16.9
40°-50°	817.9	17.7
50°-60°	754.3	16.3
60°-70°	592.3	12.8
70°-80°	357.0	7.7
80°-90°	112.9	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°	1201.9	26.0
0°-40°	1979.5	42.9
0°-60°	3551.7	77.0
0°-90°	4614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1531	1532	1530	1538	1528	145
15°	1478	1490	1478	1489	1487	416
25°	1370	1384	1389	1381	1379	632
35°	1229	1240	1246	1250	1255	769
45°	1037	1049	1065	1073	1069	803
55°	815	836	850	857	856	728
65°	570	582	599	617	623	563
75°	307	316	339	357	362	322
85°	59	79	107	127	133	77
90°	0	0	0	0	0	



TEST NUMBER: P709668

CATALOG NUMBER: 24ARS-L3C39-UNV-5000K-MID

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1525.5	1531.1	1533.9	1537.4	1541.5
5°	1531.1	1532.5	1530.4	1538.0	1527.6
7.5°	1504.7	1528.3	1524.1	1525.5	1509.5
10°	1511.6	1509.5	1513.7	1518.6	1519.3
12.5°	1496.3	1499.8	1495.6	1508.1	1493.5
15°	1477.6	1490.1	1477.6	1488.7	1486.6
17.5°	1445.6	1449.7	1473.4	1463.0	1465.7
20°	1421.2	1439.3	1441.4	1440.0	1433.7
22.5°	1394.8	1408.7	1415.7	1422.6	1419.8
25°	1370.5	1384.4	1389.2	1380.9	1378.8
27.5°	1340.6	1346.8	1351.0	1365.6	1356.6
30°	1311.4	1311.4	1321.1	1326.7	1323.9
32.5°	1269.0	1282.9	1279.4	1285.6	1286.3
35°	1228.6	1240.5	1246.0	1249.5	1255.1
37.5°	1186.9	1195.3	1205.0	1209.2	1207.1
40°	1137.5	1144.5	1156.3	1164.7	1163.3
42.5°	1093.7	1104.9	1113.2	1120.2	1127.1
45°	1037.4	1049.2	1065.2	1072.9	1068.7
47.5°	992.9	997.1	1009.6	1017.3	1019.3
50°	928.9	952.6	957.5	972.8	964.4
52.5°	871.9	893.5	902.5	913.7	913.0
55°	814.9	836.5	850.4	857.3	855.9
57.5°	756.5	773.9	788.5	798.2	807.3
60°	695.3	710.6	726.6	739.1	743.3
62.5°	632.0	649.4	663.3	684.9	680.7
65°	569.5	582.0	599.4	616.7	623.0
67.5°	506.9	520.1	534.7	551.4	559.0
70°	442.2	453.3	473.5	484.6	489.5
72.5°	370.6	385.9	406.8	422.1	425.5
75°	307.3	315.7	339.3	356.7	361.6
77.5°	234.3	253.8	277.4	294.8	303.2
80°	173.8	190.5	214.2	233.6	240.6
82.5°	116.1	131.4	157.8	181.5	187.0
85°	59.1	78.6	107.1	127.2	132.8
87.5°	20.2	36.9	57.7	66.8	69.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)