

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: P709654

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709654
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-HI
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

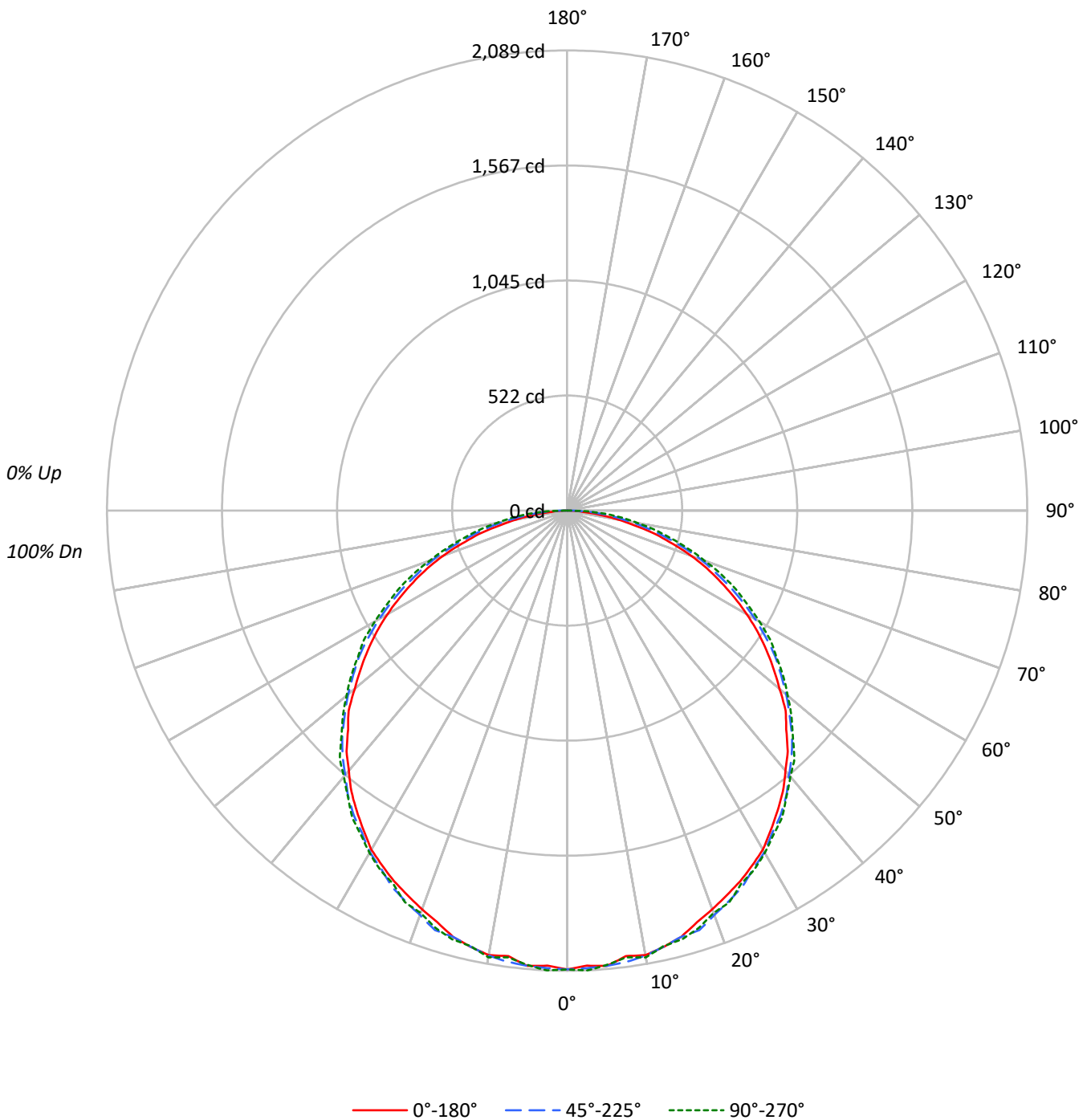
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6254.0 lumens
Efficiency: N/A
Efficacy: 137.5 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): 45.5
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: P709654
CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709654

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-HI

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°	3166	3166	3166
5°	3166	3165	3159
10°	3162	3166	3178
15°	3151	3151	3171
20°	3116	3160	3143
25°	3115	3158	3134
30°	3120	3143	3149
35°	3090	3134	3156
40°	3059	3110	3128
45°	3023	3104	3114
50°	2977	3069	3091
55°	2927	3054	3074
60°	2865	2994	3063
65°	2776	2922	3037
70°	2664	2852	2948
75°	2446	2701	2878
80°	2062	2541	2854
85°	1397	2530	3139



TEST NUMBER: P709654

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	3.2
10°-20°	567.2	9.1
20°-30°	864.7	13.8
30°-40°	1054.0	16.9
40°-50°	1108.6	17.7
50°-60°	1022.4	16.3
60°-70°	802.9	12.8
70°-80°	484.0	7.7
80°-90°	153.1	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°	1629.1	26.0
0°-40°	2683.1	42.9
0°-60°	4814.1	77.0
0°-90°	6254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2075	2077	2074	2085	2071	196
15°	2003	2020	2003	2018	2015	564
25°	1858	1876	1883	1872	1869	856
35°	1665	1681	1689	1694	1701	1042
45°	1406	1422	1444	1454	1449	1088
55°	1105	1134	1153	1162	1160	987
65°	772	789	812	836	844	764
75°	417	428	460	484	490	436
85°	80	106	145	172	180	104
90°	0	0	0	0	0	



TEST NUMBER: P709654

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.8	2082.8	2082.8	2082.8	2082.8
2.5°	2067.8	2075.3	2079.1	2083.8	2089.4
5°	2075.3	2077.2	2074.4	2084.7	2070.6
7.5°	2039.5	2071.5	2065.9	2067.8	2046.1
10°	2048.9	2046.1	2051.7	2058.3	2059.3
12.5°	2028.2	2032.9	2027.2	2044.2	2024.4
15°	2002.7	2019.7	2002.7	2017.8	2015.0
17.5°	1959.4	1965.0	1997.1	1982.9	1986.7
20°	1926.4	1950.9	1953.7	1951.8	1943.4
22.5°	1890.6	1909.4	1918.9	1928.3	1924.5
25°	1857.6	1876.4	1883.0	1871.7	1868.9
27.5°	1817.1	1825.6	1831.2	1851.0	1838.7
30°	1777.5	1777.5	1790.7	1798.2	1794.5
32.5°	1720.0	1738.8	1734.1	1742.6	1743.6
35°	1665.3	1681.4	1688.9	1693.6	1701.1
37.5°	1608.8	1620.1	1633.3	1638.9	1636.1
40°	1541.9	1551.3	1567.3	1578.6	1576.7
42.5°	1482.5	1497.6	1508.9	1518.3	1527.7
45°	1406.2	1422.2	1443.9	1454.2	1448.6
47.5°	1345.8	1351.5	1368.5	1378.8	1381.7
50°	1259.1	1291.2	1297.8	1318.5	1307.2
52.5°	1181.9	1211.1	1223.3	1238.4	1237.5
55°	1104.6	1133.8	1152.6	1162.1	1160.2
57.5°	1025.4	1049.0	1068.8	1081.9	1094.2
60°	942.5	963.2	984.9	1001.8	1007.5
62.5°	856.7	880.3	899.1	928.3	922.7
65°	771.9	788.8	812.4	836.0	844.4
67.5°	687.1	705.0	724.8	747.4	757.7
70°	599.4	614.5	641.8	656.9	663.5
72.5°	502.3	523.1	551.3	572.1	576.8
75°	416.6	427.9	459.9	483.5	490.1
77.5°	317.6	344.0	376.0	399.6	410.9
80°	235.6	258.2	290.3	316.7	326.1
82.5°	157.4	178.1	213.9	246.0	253.5
85°	80.1	106.5	145.1	172.5	180.0
87.5°	27.3	50.0	78.2	90.5	94.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)