

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: P709647

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709647
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-HO-UNV-4000K-MID
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

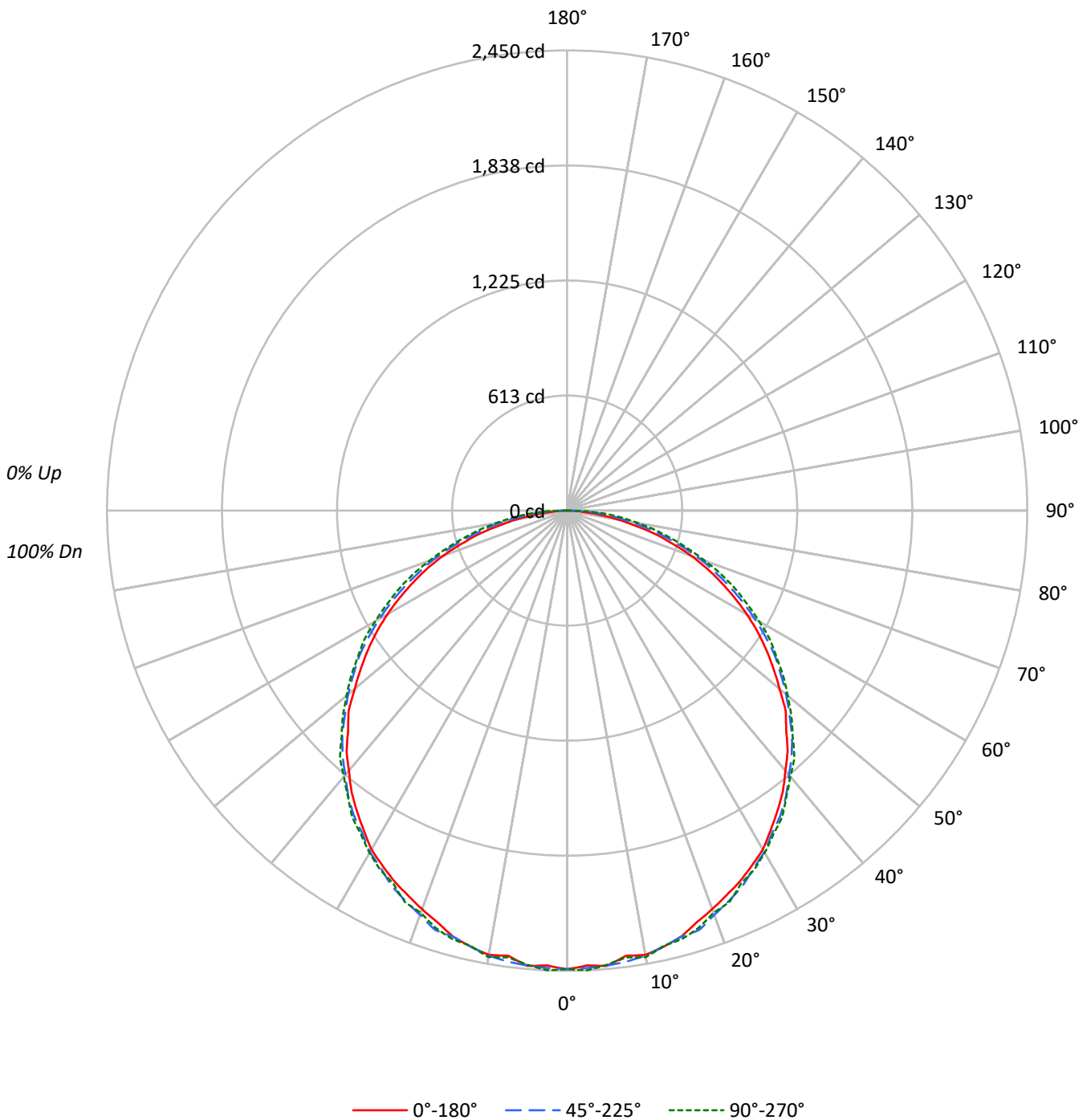
Lumens per Lamp: N/A
Luminaire Lumens: 7332.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 51.6
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°	3711	3711	3711
5°	3712	3710	3704
10°	3707	3712	3726
15°	3694	3694	3717
20°	3653	3705	3685
25°	3652	3702	3674
30°	3657	3684	3692
35°	3623	3674	3700
40°	3586	3646	3668
45°	3543	3638	3650
50°	3490	3598	3624
55°	3432	3581	3604
60°	3359	3510	3591
65°	3254	3425	3560
70°	3123	3344	3457
75°	2868	3166	3374
80°	2417	2979	3346
85°	1637	2968	3680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	3.2
10°-20°	664.9	9.1
20°-30°	1013.8	13.8
30°-40°	1235.7	16.9
40°-50°	1299.7	17.7
50°-60°	1198.6	16.3
60°-70°	941.3	12.8
70°-80°	567.4	7.7
80°-90°	179.5	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°	1909.9	26.0
0°-40°	3145.6	42.9
0°-60°	5643.9	77.0
0°-90°	7332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2433	2435	2432	2444	2428	230
15°	2348	2368	2348	2366	2362	661
25°	2178	2200	2208	2194	2191	1004
35°	1952	1971	1980	1986	1994	1222
45°	1648	1667	1693	1705	1698	1276
55°	1295	1329	1351	1362	1360	1157
65°	905	925	952	980	990	895
75°	488	502	539	567	575	511
85°	94	125	170	202	211	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.9	2441.9	2441.9	2441.9	2441.9
2.5°	2424.2	2433.0	2437.4	2443.0	2449.6
5°	2433.0	2435.2	2431.9	2444.1	2427.5
7.5°	2391.0	2428.6	2422.0	2424.2	2398.8
10°	2402.1	2398.8	2405.4	2413.1	2414.2
12.5°	2377.8	2383.3	2376.7	2396.6	2373.4
15°	2347.9	2367.8	2347.9	2365.6	2362.3
17.5°	2297.1	2303.8	2341.3	2324.7	2329.2
20°	2258.4	2287.2	2290.5	2288.3	2278.3
22.5°	2216.5	2238.6	2249.6	2260.7	2256.2
25°	2177.8	2199.9	2207.6	2194.4	2191.0
27.5°	2130.3	2140.2	2146.9	2170.1	2155.7
30°	2083.9	2083.9	2099.3	2108.2	2103.8
32.5°	2016.5	2038.6	2033.0	2043.0	2044.1
35°	1952.4	1971.2	1980.0	1985.5	1994.4
37.5°	1886.1	1899.4	1914.8	1921.5	1918.1
40°	1807.6	1818.7	1837.5	1850.7	1848.5
42.5°	1738.0	1755.7	1769.0	1780.0	1791.1
45°	1648.5	1667.3	1692.7	1704.9	1698.3
47.5°	1577.8	1584.5	1604.3	1616.5	1619.8
50°	1476.2	1513.7	1521.5	1545.8	1532.5
52.5°	1385.6	1419.8	1434.2	1451.9	1450.8
55°	1295.0	1329.2	1351.3	1362.4	1360.2
57.5°	1202.1	1229.8	1253.0	1268.4	1282.8
60°	1104.9	1129.2	1154.6	1174.5	1181.2
62.5°	1004.4	1032.0	1054.1	1088.3	1081.7
65°	904.9	924.8	952.4	980.1	990.0
67.5°	805.5	826.5	849.7	876.2	888.4
70°	702.7	720.4	752.4	770.1	777.9
72.5°	588.9	613.2	646.4	670.7	676.2
75°	488.4	501.6	539.2	566.8	574.6
77.5°	372.4	403.3	440.9	468.5	481.7
80°	276.2	302.7	340.3	371.3	382.3
82.5°	184.5	208.8	250.8	288.4	297.2
85°	93.9	124.9	170.2	202.2	211.0
87.5°	32.0	58.6	91.7	106.1	110.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)