

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: P709650

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709650
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-5000K-MID
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

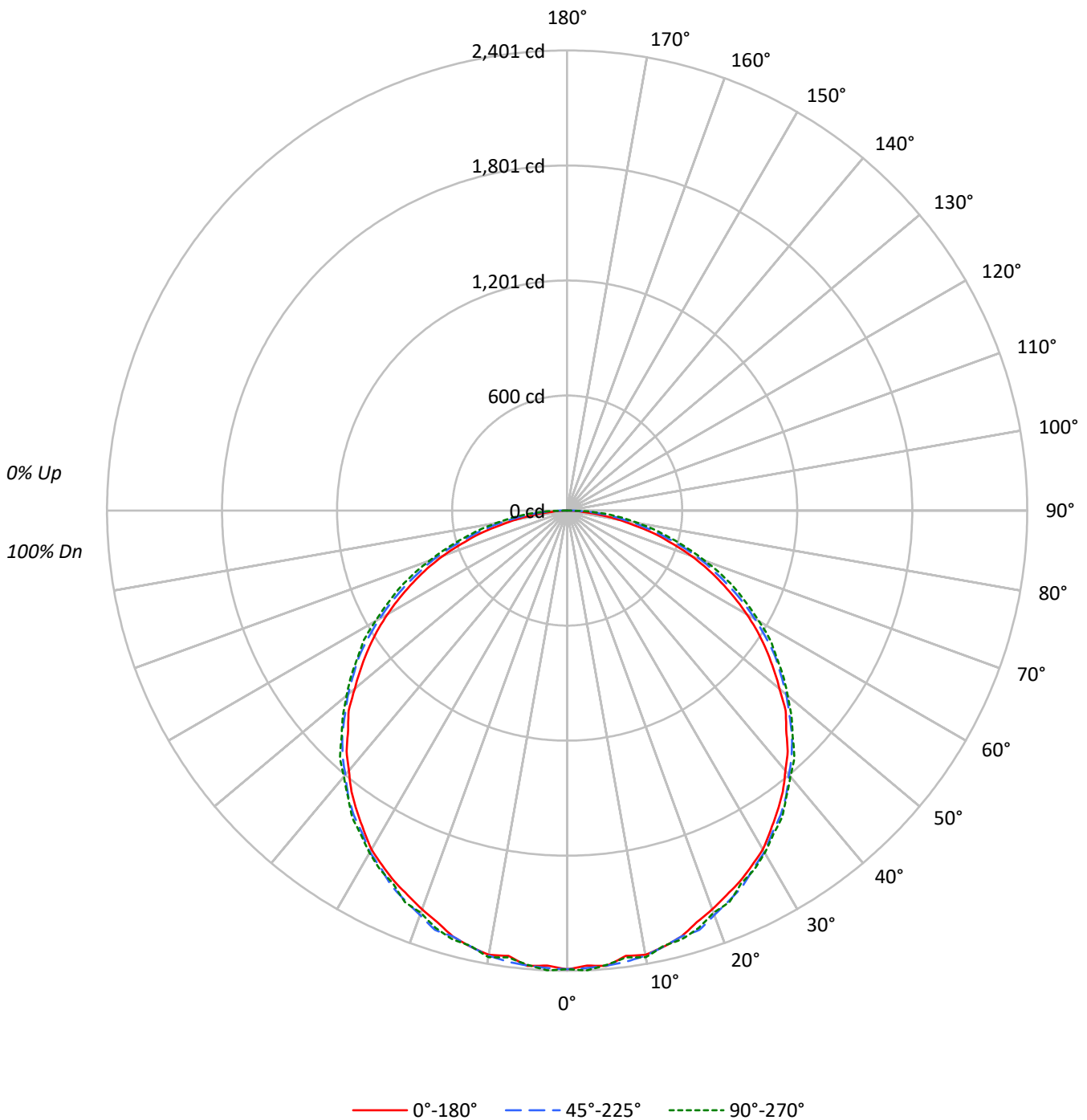
Lumens per Lamp: N/A
Luminaire Lumens: 7186.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3637	3637	3637
5°	3638	3636	3630
10°	3633	3638	3652
15°	3621	3621	3643
20°	3580	3631	3612
25°	3579	3629	3601
30°	3584	3611	3619
35°	3550	3601	3627
40°	3515	3573	3595
45°	3473	3566	3578
50°	3421	3526	3551
55°	3363	3509	3532
60°	3292	3440	3519
65°	3190	3357	3490
70°	3060	3277	3388
75°	2811	3104	3307
80°	2369	2919	3280
85°	1604	2909	3606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	3.2
10°-20°	651.7	9.1
20°-30°	993.6	13.8
30°-40°	1211.1	16.9
40°-50°	1273.8	17.7
50°-60°	1174.7	16.3
60°-70°	922.5	12.8
70°-80°	556.1	7.7
80°-90°	175.9	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°	1871.9	26.0
0°-40°	3083.0	42.9
0°-60°	5531.5	77.0
0°-90°	7186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2385	2387	2384	2395	2379	225
15°	2301	2321	2301	2318	2315	647
25°	2134	2156	2164	2151	2147	984
35°	1914	1932	1941	1946	1955	1197
45°	1616	1634	1659	1671	1664	1250
55°	1269	1303	1324	1335	1333	1134
65°	887	906	934	960	970	878
75°	479	492	528	556	563	501
85°	92	122	167	198	207	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2393.2	2393.2	2393.2	2393.2	2393.2
2.5°	2375.9	2384.6	2388.9	2394.3	2400.8
5°	2384.6	2386.7	2383.5	2395.4	2379.2
7.5°	2343.4	2380.2	2373.7	2375.9	2351.0
10°	2354.3	2351.0	2357.5	2365.1	2366.2
12.5°	2330.4	2335.8	2329.3	2348.8	2326.1
15°	2301.2	2320.7	2301.2	2318.5	2315.3
17.5°	2251.4	2257.9	2294.7	2278.5	2282.8
20°	2213.5	2241.6	2244.9	2242.7	2233.0
22.5°	2172.3	2194.0	2204.8	2215.6	2211.3
25°	2134.4	2156.1	2163.7	2150.7	2147.4
27.5°	2087.9	2097.6	2104.1	2126.8	2112.8
30°	2042.4	2042.4	2057.5	2066.2	2061.9
32.5°	1976.3	1998.0	1992.6	2002.3	2003.4
35°	1913.5	1931.9	1940.6	1946.0	1954.7
37.5°	1848.5	1861.5	1876.7	1883.2	1879.9
40°	1771.6	1782.5	1800.9	1813.9	1811.7
42.5°	1703.4	1720.8	1733.7	1744.6	1755.4
45°	1615.7	1634.1	1659.0	1670.9	1664.4
47.5°	1546.4	1552.9	1572.4	1584.3	1587.6
50°	1446.8	1483.6	1491.2	1515.0	1502.0
52.5°	1358.0	1391.5	1405.6	1423.0	1421.9
55°	1269.2	1302.7	1324.4	1335.2	1333.1
57.5°	1178.2	1205.3	1228.0	1243.2	1257.3
60°	1082.9	1106.7	1131.6	1151.1	1157.6
62.5°	984.4	1011.4	1033.1	1066.7	1060.2
65°	886.9	906.4	933.5	960.5	970.3
67.5°	789.4	810.0	832.8	858.8	870.7
70°	688.7	706.1	737.5	754.8	762.4
72.5°	577.2	601.0	633.5	657.3	662.7
75°	478.6	491.6	528.5	555.5	563.1
77.5°	364.9	395.3	432.1	459.2	472.2
80°	270.7	296.7	333.5	363.9	374.7
82.5°	180.8	204.7	245.8	282.6	291.3
85°	92.0	122.4	166.8	198.2	206.8
87.5°	31.4	57.4	89.9	104.0	108.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)