

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: P709641

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709641
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-SQR-UNV-5000K-MID
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

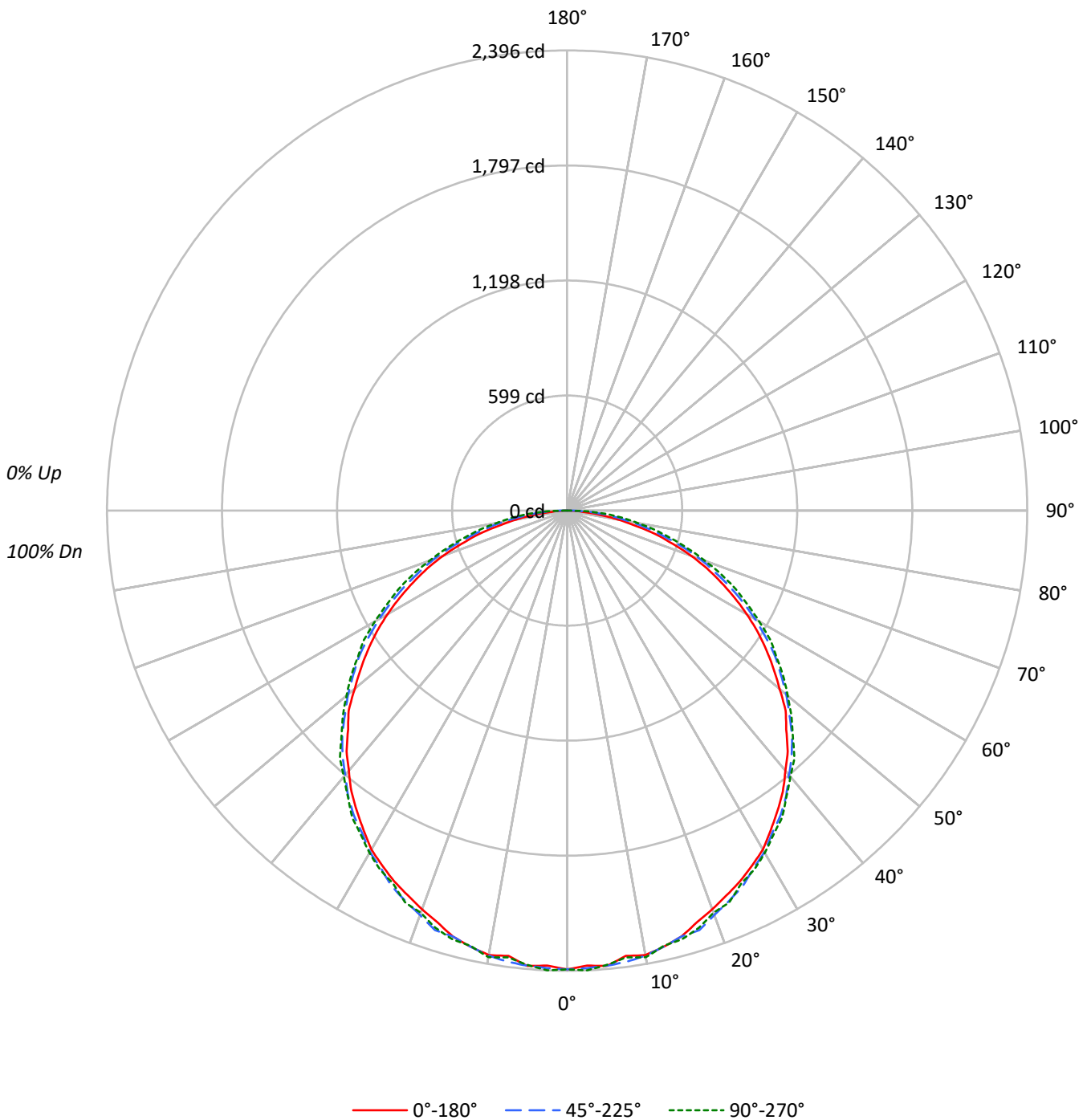
Lumens per Lamp: N/A
Luminaire Lumens: 7172.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 53.1
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°	3630	3630	3630
5°	3631	3629	3623
10°	3626	3631	3645
15°	3614	3614	3636
20°	3573	3624	3605
25°	3573	3621	3594
30°	3577	3604	3612
35°	3543	3594	3620
40°	3508	3566	3588
45°	3466	3559	3571
50°	3414	3519	3545
55°	3357	3503	3526
60°	3285	3433	3512
65°	3183	3351	3483
70°	3055	3271	3381
75°	2805	3097	3300
80°	2365	2914	3273
85°	1603	2902	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	3.2
10°-20°	650.4	9.1
20°-30°	991.6	13.8
30°-40°	1208.7	16.9
40°-50°	1271.4	17.7
50°-60°	1172.4	16.3
60°-70°	920.7	12.8
70°-80°	555.0	7.7
80°-90°	175.5	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°	1868.3	26.0
0°-40°	3077.0	42.9
0°-60°	5520.7	77.0
0°-90°	7172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2389	2389	2389	2389	2389	
5°	2380	2382	2379	2391	2374	225
15°	2297	2316	2297	2314	2311	646
25°	2130	2152	2159	2146	2143	982
35°	1910	1928	1937	1942	1951	1195
45°	1613	1631	1656	1668	1661	1248
55°	1267	1300	1322	1333	1330	1132
65°	885	905	932	959	968	876
75°	478	491	527	554	562	500
85°	92	122	166	198	206	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2388.6	2388.6	2388.6	2388.6	2388.6
2.5°	2371.3	2379.9	2384.3	2389.7	2396.1
5°	2379.9	2382.1	2378.9	2390.7	2374.5
7.5°	2338.9	2375.6	2369.1	2371.3	2346.4
10°	2349.7	2346.4	2352.9	2360.5	2361.6
12.5°	2325.9	2331.3	2324.8	2344.3	2321.6
15°	2296.7	2316.2	2296.7	2314.0	2310.8
17.5°	2247.0	2253.5	2290.2	2274.0	2278.3
20°	2209.2	2237.3	2240.5	2238.3	2228.6
22.5°	2168.1	2189.7	2200.5	2211.3	2207.0
25°	2130.3	2151.9	2159.4	2146.5	2143.2
27.5°	2083.8	2093.5	2100.0	2122.7	2108.7
30°	2038.4	2038.4	2053.5	2062.2	2057.9
32.5°	1972.5	1994.1	1988.7	1998.4	1999.5
35°	1909.8	1928.2	1936.8	1942.2	1950.9
37.5°	1844.9	1857.9	1873.0	1879.5	1876.3
40°	1768.2	1779.0	1797.4	1810.3	1808.2
42.5°	1700.1	1717.4	1730.4	1741.2	1752.0
45°	1612.6	1630.9	1655.8	1667.7	1661.2
47.5°	1543.4	1549.9	1569.3	1581.2	1584.5
50°	1444.0	1480.7	1488.3	1512.0	1499.1
52.5°	1355.3	1388.8	1402.9	1420.2	1419.1
55°	1266.7	1300.2	1321.8	1332.6	1330.5
57.5°	1175.9	1202.9	1225.6	1240.8	1254.8
60°	1080.8	1104.6	1129.4	1148.9	1155.4
62.5°	982.5	1009.5	1031.1	1064.6	1058.1
65°	885.2	904.6	931.7	958.7	968.4
67.5°	787.9	808.4	831.1	857.1	869.0
70°	687.4	704.7	736.0	753.3	760.9
72.5°	576.1	599.8	632.3	656.0	661.5
75°	477.7	490.7	527.4	554.5	562.0
77.5°	364.2	394.5	431.2	458.3	471.2
80°	270.2	296.1	332.9	363.2	374.0
82.5°	180.5	204.3	245.3	282.1	290.7
85°	91.9	122.1	166.4	197.8	206.4
87.5°	31.3	57.3	89.7	103.8	108.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)