

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: P709667

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709667
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-LOW
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

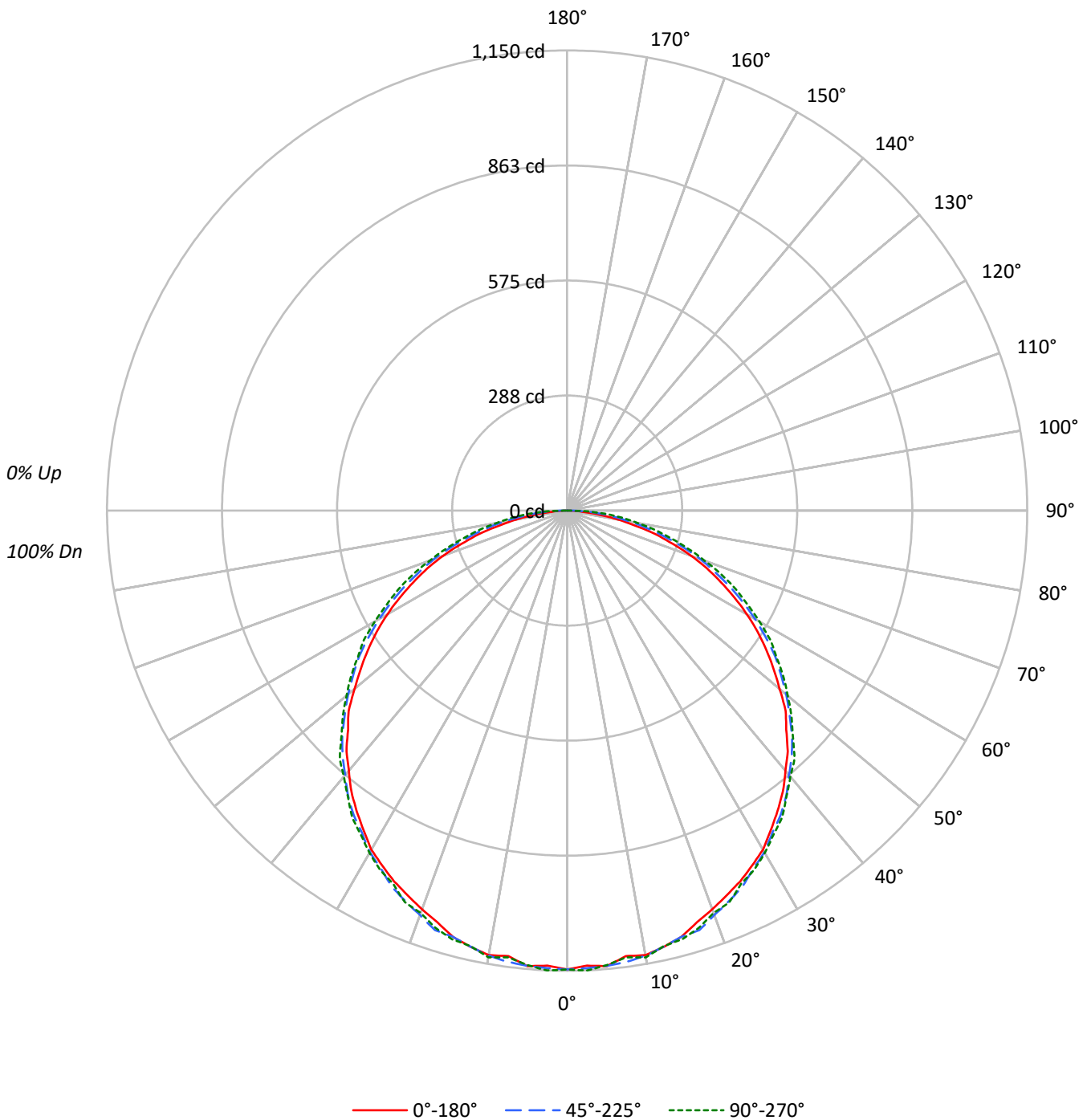
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.0 lumens
Efficiency: N/A
Efficacy: 140.0 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): 24.6
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°	1743	1743	1743
5°	1743	1742	1739
10°	1741	1743	1750
15°	1735	1735	1745
20°	1715	1740	1730
25°	1715	1739	1725
30°	1717	1730	1734
35°	1701	1725	1738
40°	1684	1712	1722
45°	1664	1709	1714
50°	1639	1689	1701
55°	1611	1682	1692
60°	1577	1648	1686
65°	1528	1609	1672
70°	1466	1570	1623
75°	1347	1487	1584
80°	1135	1399	1571
85°	769	1393	1728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.2
10°-20°	312.2	9.1
20°-30°	476.0	13.8
30°-40°	580.3	16.9
40°-50°	610.3	17.7
50°-60°	562.8	16.3
60°-70°	442.0	12.8
70°-80°	266.4	7.7
80°-90°	84.3	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°	896.9	26.0
0°-40°	1477.1	42.9
0°-60°	2650.3	77.0
0°-90°	3443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1142	1144	1142	1148	1140	108
15°	1103	1112	1103	1111	1109	310
25°	1023	1033	1037	1030	1029	471
35°	917	926	930	932	936	574
45°	774	783	795	801	798	599
55°	608	624	635	640	639	543
65°	425	434	447	460	465	420
75°	229	236	253	266	270	240
85°	44	59	80	95	99	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.7	1146.7	1146.7	1146.7	1146.7
2.5°	1138.4	1142.5	1144.6	1147.2	1150.3
5°	1142.5	1143.6	1142.0	1147.7	1139.9
7.5°	1122.8	1140.4	1137.3	1138.4	1126.4
10°	1128.0	1126.4	1129.5	1133.2	1133.7
12.5°	1116.6	1119.2	1116.1	1125.4	1114.5
15°	1102.6	1111.9	1102.6	1110.9	1109.3
17.5°	1078.7	1081.8	1099.4	1091.7	1093.7
20°	1060.5	1074.0	1075.6	1074.5	1069.9
22.5°	1040.8	1051.2	1056.4	1061.6	1059.5
25°	1022.7	1033.0	1036.7	1030.4	1028.9
27.5°	1000.3	1005.0	1008.1	1019.0	1012.3
30°	978.6	978.6	985.8	990.0	987.9
32.5°	946.9	957.3	954.7	959.4	959.9
35°	916.8	925.6	929.8	932.4	936.5
37.5°	885.7	891.9	899.2	902.3	900.7
40°	848.8	854.0	862.9	869.1	868.0
42.5°	816.2	824.5	830.7	835.9	841.1
45°	774.1	782.9	794.9	800.6	797.5
47.5°	740.9	744.0	753.4	759.1	760.6
50°	693.2	710.8	714.5	725.9	719.6
52.5°	650.6	666.7	673.5	681.8	681.3
55°	608.1	624.2	634.6	639.7	638.7
57.5°	564.5	577.5	588.4	595.6	602.4
60°	518.9	530.3	542.2	551.5	554.7
62.5°	471.6	484.6	495.0	511.1	508.0
65°	424.9	434.3	447.3	460.2	464.9
67.5°	378.2	388.1	399.0	411.5	417.2
70°	330.0	338.3	353.3	361.6	365.3
72.5°	276.5	288.0	303.5	314.9	317.5
75°	229.3	235.6	253.2	266.2	269.8
77.5°	174.9	189.4	207.0	220.0	226.2
80°	129.7	142.2	159.8	174.3	179.5
82.5°	86.6	98.1	117.8	135.4	139.6
85°	44.1	58.6	79.9	95.0	99.1
87.5°	15.0	27.5	43.1	49.8	51.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)