

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: P709664

Luminaire Tested: **24ARS-L3C39-UNV-4000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709664
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-4000K-LOW
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

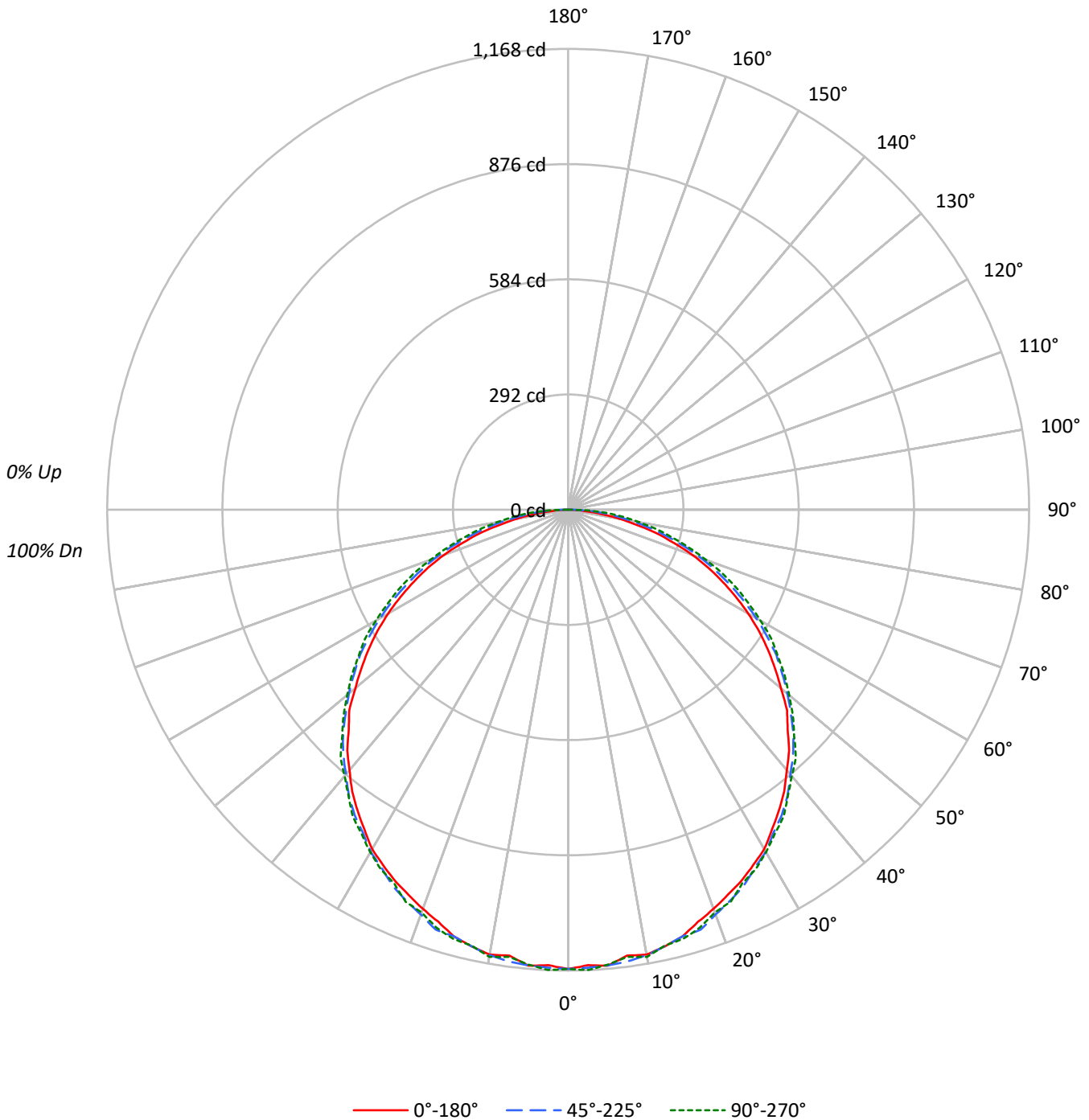
Lumens per Lamp: N/A
Luminaire Lumens: 3495.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	1769	1769	1769
5°	1769	1769	1765
10°	1767	1770	1776
15°	1761	1761	1772
20°	1741	1766	1757
25°	1741	1765	1751
30°	1743	1756	1760
35°	1727	1751	1764
40°	1710	1738	1748
45°	1689	1734	1740
50°	1664	1715	1727
55°	1636	1707	1718
60°	1601	1673	1711
65°	1551	1633	1697
70°	1489	1594	1648
75°	1367	1509	1608
80°	1153	1420	1595
85°	781	1414	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.2
10°-20°	317.0	9.1
20°-30°	483.2	13.8
30°-40°	589.0	16.9
40°-50°	619.5	17.7
50°-60°	571.3	16.3
60°-70°	448.7	12.8
70°-80°	270.4	7.7
80°-90°	85.5	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°	910.4	26.0
0°-40°	1499.4	42.9
0°-60°	2690.3	77.0
0°-90°	3495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1160	1161	1159	1165	1157	110
15°	1119	1129	1119	1128	1126	315
25°	1038	1049	1052	1046	1044	479
35°	931	940	944	946	951	582
45°	786	795	807	813	810	608
55°	617	634	644	649	648	552
65°	431	441	454	467	472	427
75°	233	239	257	270	274	244
85°	45	60	81	96	101	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1155.6	1159.8	1161.9	1164.5	1167.7
5°	1159.8	1160.8	1159.2	1165.0	1157.1
7.5°	1139.8	1157.7	1154.5	1155.6	1143.4
10°	1145.0	1143.4	1146.6	1150.3	1150.8
12.5°	1133.4	1136.1	1132.9	1142.4	1131.3
15°	1119.2	1128.7	1119.2	1127.6	1126.1
17.5°	1095.0	1098.1	1116.1	1108.2	1110.3
20°	1076.6	1090.2	1091.8	1090.8	1086.0
22.5°	1056.5	1067.1	1072.3	1077.6	1075.5
25°	1038.1	1048.6	1052.3	1046.0	1044.4
27.5°	1015.5	1020.2	1023.4	1034.4	1027.6
30°	993.3	993.3	1000.7	1004.9	1002.8
32.5°	961.2	971.7	969.1	973.8	974.4
35°	930.7	939.6	943.8	946.5	950.7
37.5°	899.1	905.4	912.8	915.9	914.3
40°	861.7	866.9	875.9	882.2	881.2
42.5°	828.5	836.9	843.2	848.5	853.8
45°	785.8	794.8	806.9	812.7	809.5
47.5°	752.1	755.3	764.8	770.5	772.1
50°	703.7	721.6	725.3	736.8	730.5
52.5°	660.5	676.8	683.6	692.1	691.5
55°	617.3	633.6	644.1	649.4	648.4
57.5°	573.0	586.2	597.3	604.6	611.5
60°	526.7	538.3	550.4	559.9	563.0
62.5°	478.8	491.9	502.5	518.8	515.6
65°	431.4	440.8	454.0	467.2	471.9
67.5°	384.0	394.0	405.0	417.7	423.5
70°	335.0	343.4	358.7	367.1	370.8
72.5°	280.7	292.3	308.1	319.7	322.3
75°	232.8	239.1	257.0	270.2	273.9
77.5°	177.5	192.2	210.1	223.3	229.6
80°	131.7	144.3	162.2	177.0	182.2
82.5°	88.0	99.5	119.6	137.5	141.7
85°	44.8	59.5	81.1	96.4	100.6
87.5°	15.3	27.9	43.7	50.6	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)