

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: P709655

Luminaire Tested: **24ARS-L3C3-UNV-4000K-LOW**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709655  
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-UNV-4000K-LOW  
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

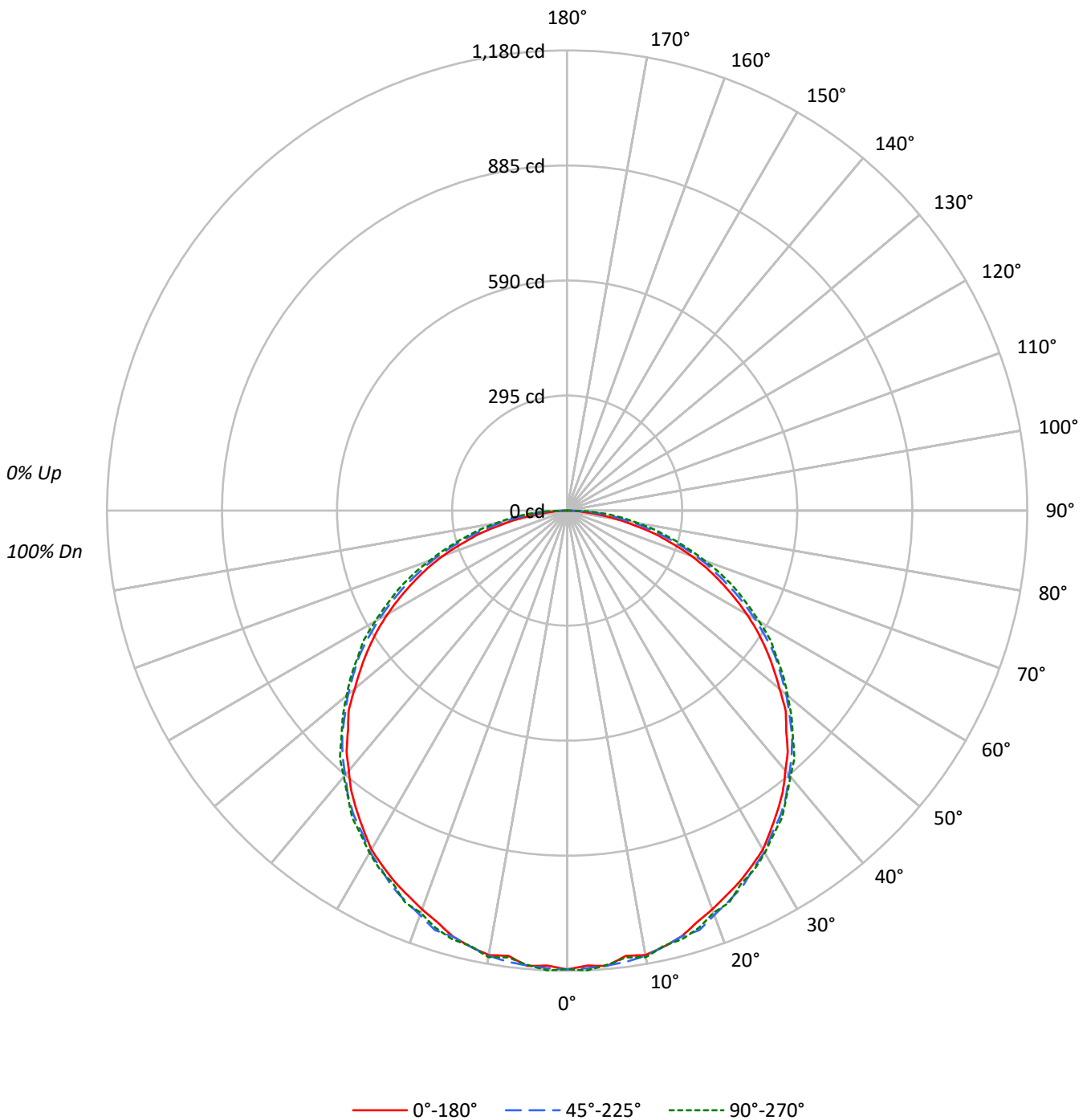
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3532.0 lumens  
Efficiency: N/A  
Efficacy: 146.0 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): 24.2  
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

TEST NUMBER: P709655  
CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-LOW

### Luminous Intensity Polar Plot





TEST NUMBER: P709655

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-LOW

**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°	1788	1788	1788
5°	1788	1787	1784
10°	1786	1788	1795
15°	1780	1780	1791
20°	1760	1785	1775
25°	1759	1783	1770
30°	1762	1775	1779
35°	1745	1770	1783
40°	1728	1756	1767
45°	1707	1753	1758
50°	1681	1733	1746
55°	1653	1725	1736
60°	1618	1691	1730
65°	1568	1650	1715
70°	1504	1611	1665
75°	1382	1525	1625
80°	1165	1435	1612
85°	788	1430	1774



TEST NUMBER: P709655

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-LOW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	3.2
10°-20°	320.3	9.1
20°-30°	488.4	13.8
30°-40°	595.3	16.9
40°-50°	626.1	17.7
50°-60°	577.4	16.3
60°-70°	453.4	12.8
70°-80°	273.3	7.7
80°-90°	86.4	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°	920.1	26.0
0°-40°	1515.3	42.9
0°-60°	2718.8	77.0
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1172	1173	1172	1177	1169	111
15°	1131	1141	1131	1140	1138	318
25°	1049	1060	1064	1057	1056	484
35°	940	950	954	956	961	589
45°	794	803	815	821	818	614
55°	624	640	651	656	655	557
65°	436	446	459	472	477	431
75°	235	242	260	273	277	246
85°	45	60	82	97	102	59
90°	0	0	0	0	0	



TEST NUMBER: P709655

CATALOG NUMBER: 24ARS-L3C3-UNV-4000K-LOW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1176.3	1176.3	1176.3	1176.3	1176.3
2.5°	1167.8	1172.0	1174.2	1176.8	1180.0
5°	1172.0	1173.1	1171.5	1177.4	1169.4
7.5°	1151.8	1169.9	1166.7	1167.8	1155.5
10°	1157.1	1155.5	1158.7	1162.5	1163.0
12.5°	1145.4	1148.1	1144.9	1154.5	1143.3
15°	1131.1	1140.6	1131.1	1139.6	1138.0
17.5°	1106.6	1109.8	1127.9	1119.9	1122.0
20°	1087.9	1101.8	1103.4	1102.3	1097.5
22.5°	1067.7	1078.4	1083.7	1089.0	1086.9
25°	1049.1	1059.7	1063.5	1057.1	1055.5
27.5°	1026.2	1031.0	1034.2	1045.4	1038.4
30°	1003.9	1003.9	1011.3	1015.6	1013.4
32.5°	971.4	982.0	979.4	984.2	984.7
35°	940.5	949.6	953.8	956.5	960.7
37.5°	908.6	915.0	922.4	925.6	924.0
40°	870.8	876.1	885.2	891.5	890.5
42.5°	837.3	845.8	852.2	857.5	862.8
45°	794.1	803.2	815.4	821.3	818.1
47.5°	760.1	763.3	772.8	778.7	780.3
50°	711.1	729.2	732.9	744.6	738.3
52.5°	667.5	684.0	690.9	699.4	698.9
55°	623.8	640.3	651.0	656.3	655.2
57.5°	579.1	592.4	603.6	611.0	618.0
60°	532.3	544.0	556.2	565.8	569.0
62.5°	483.8	497.1	507.8	524.3	521.1
65°	435.9	445.5	458.8	472.1	476.9
67.5°	388.0	398.1	409.3	422.1	427.9
70°	338.5	347.0	362.5	371.0	374.7
72.5°	283.7	295.4	311.4	323.1	325.7
75°	235.3	241.6	259.7	273.1	276.8
77.5°	179.4	194.3	212.4	225.7	232.1
80°	133.1	145.8	163.9	178.8	184.2
82.5°	88.9	100.6	120.8	138.9	143.2
85°	45.2	60.1	82.0	97.4	101.7
87.5°	15.4	28.2	44.2	51.1	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)