

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: P709643

Luminaire Tested: **24ARS-L3C3-HO-UNV-3500K-LOW**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709643  
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-3500K-LOW  
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

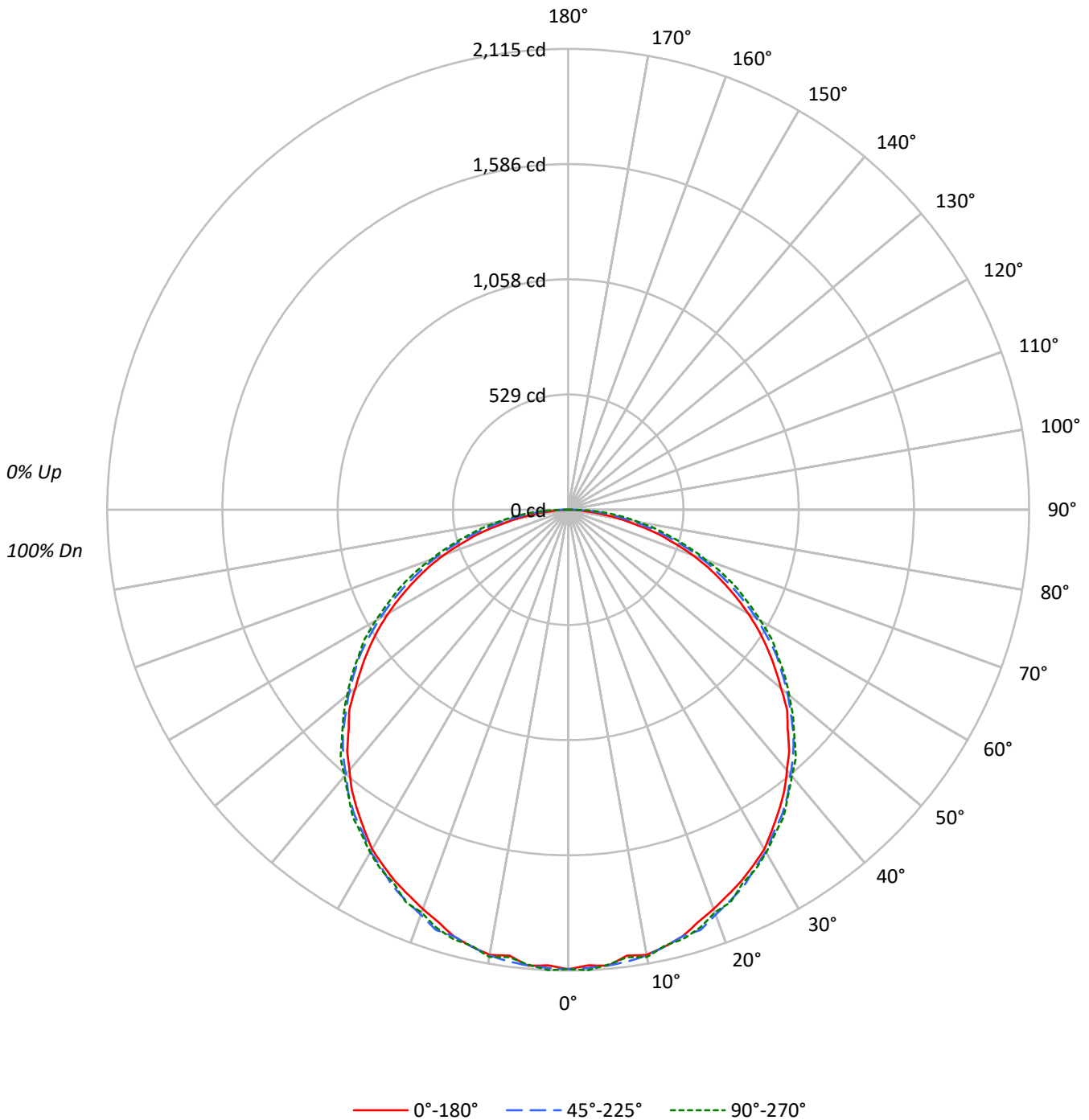
Lumens per Lamp: N/A  
Luminaire Lumens: 6331.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3205	3205	3205
5°	3205	3204	3198
10°	3201	3205	3217
15°	3190	3190	3210
20°	3154	3199	3182
25°	3154	3197	3173
30°	3158	3181	3188
35°	3128	3172	3195
40°	3097	3148	3167
45°	3060	3142	3152
50°	3014	3106	3129
55°	2963	3092	3112
60°	2900	3031	3100
65°	2810	2958	3074
70°	2697	2887	2985
75°	2476	2734	2913
80°	2087	2572	2889
85°	1414	2562	3177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	3.2
10°-20°	574.1	9.1
20°-30°	875.3	13.8
30°-40°	1067.0	16.9
40°-50°	1122.3	17.7
50°-60°	1034.9	16.3
60°-70°	812.8	12.8
70°-80°	489.9	7.7
80°-90°	155.0	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°	1649.2	26.0
0°-40°	2716.2	42.9
0°-60°	4873.4	77.0
0°-90°	6331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6331.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2101	2103	2100	2110	2096	199
15°	2027	2045	2027	2043	2040	570
25°	1880	1900	1906	1895	1892	867
35°	1686	1702	1710	1714	1722	1055
45°	1424	1440	1462	1472	1466	1101
55°	1118	1148	1167	1176	1174	999
65°	781	799	822	846	855	773
75°	422	433	466	489	496	441
85°	81	108	147	175	182	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2108.5	2108.5	2108.5	2108.5	2108.5
2.5°	2093.2	2100.9	2104.7	2109.4	2115.2
5°	2100.9	2102.8	2099.9	2110.4	2096.1
7.5°	2064.6	2097.0	2091.3	2093.2	2071.3
10°	2074.1	2071.3	2077.0	2083.7	2084.6
12.5°	2053.2	2057.9	2052.2	2069.4	2049.3
15°	2027.4	2044.6	2027.4	2042.7	2039.8
17.5°	1983.5	1989.2	2021.7	2007.4	2011.2
20°	1950.1	1974.9	1977.8	1975.9	1967.3
22.5°	1913.9	1932.9	1942.5	1952.0	1948.2
25°	1880.5	1899.5	1906.2	1894.8	1891.9
27.5°	1839.4	1848.0	1853.8	1873.8	1861.4
30°	1799.4	1799.4	1812.7	1820.4	1816.5
32.5°	1741.2	1760.3	1755.5	1764.1	1765.0
35°	1685.8	1702.1	1709.7	1714.5	1722.1
37.5°	1628.6	1640.0	1653.4	1659.1	1656.3
40°	1560.9	1570.4	1586.6	1598.1	1596.2
42.5°	1500.7	1516.0	1527.5	1537.0	1546.5
45°	1423.5	1439.7	1461.6	1472.1	1466.4
47.5°	1362.4	1368.1	1385.3	1395.8	1398.7
50°	1274.6	1307.1	1313.8	1334.7	1323.3
52.5°	1196.4	1226.0	1238.4	1253.6	1252.7
55°	1118.2	1147.7	1166.8	1176.4	1174.5
57.5°	1038.0	1061.9	1081.9	1095.3	1107.7
60°	954.1	975.1	997.0	1014.2	1019.9
62.5°	867.2	891.1	910.2	939.8	934.0
65°	781.4	798.6	822.4	846.3	854.8
67.5°	695.5	713.6	733.7	756.6	767.1
70°	606.8	622.1	649.7	665.0	671.7
72.5°	508.5	529.5	558.1	579.1	583.9
75°	421.7	433.1	465.6	489.4	496.1
77.5°	321.5	348.2	380.7	404.5	416.0
80°	238.5	261.4	293.9	320.6	330.1
82.5°	159.3	180.3	216.6	249.0	256.6
85°	81.1	107.8	146.9	174.6	182.2
87.5°	27.7	50.6	79.2	91.6	95.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)