

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: P709984

Luminaire Tested: **24ARS-L3C3-NUV-4000K-HI**

Issue Date: 10/4/2023

Test Information

Test Method: LM-79-08
Report Number: P709984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ARS-L3C3-NUV-4000K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

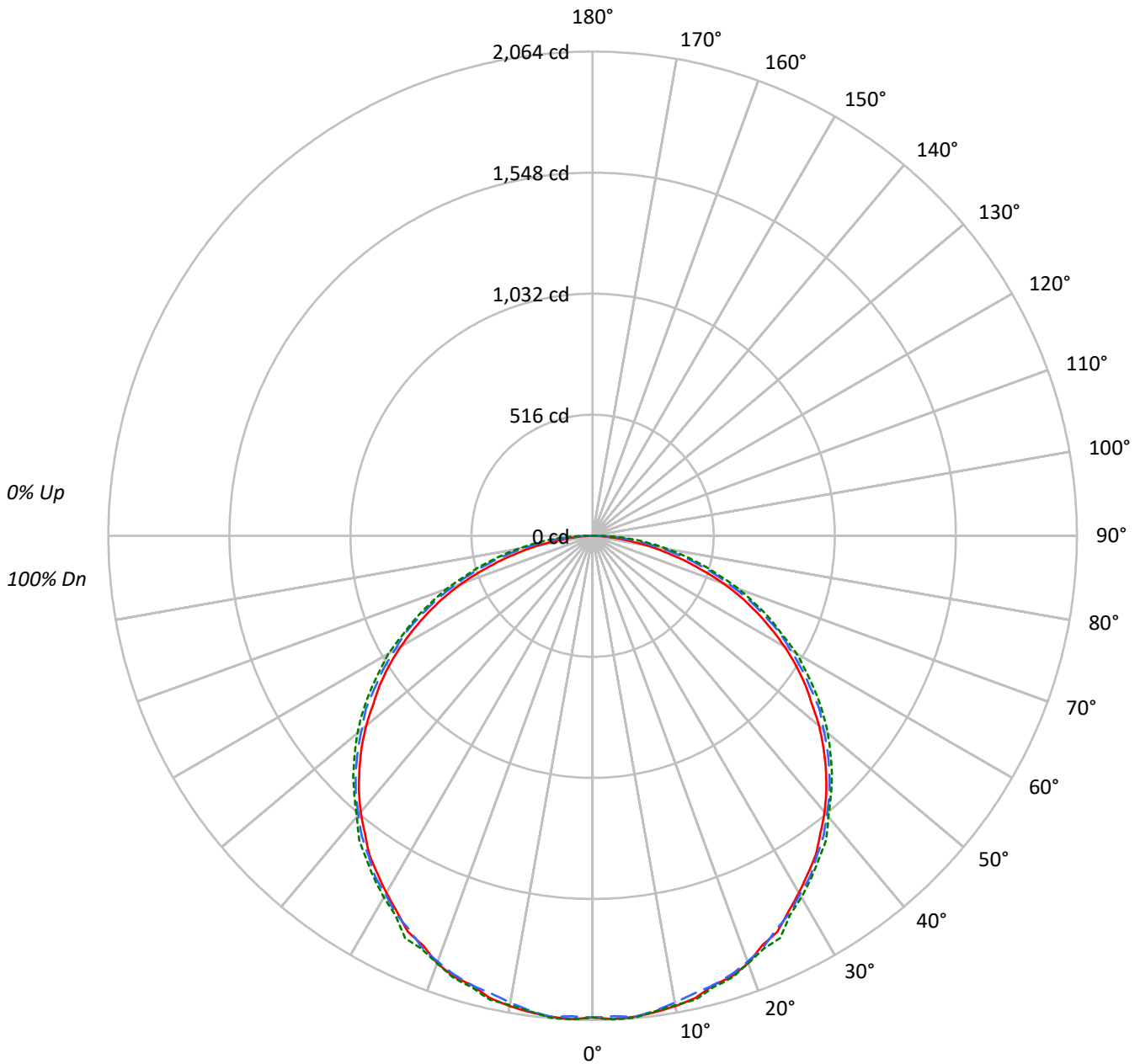
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6202.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	88	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	61	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	45	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°	3121	3121	3121
5°	3140	3140	3146
10°	3142	3118	3135
15°	3121	3121	3135
20°	3135	3124	3137
25°	3123	3105	3172
30°	3085	3098	3124
35°	3078	3090	3120
40°	3051	3081	3101
45°	3021	3069	3102
50°	2978	3037	3093
55°	2931	3005	3071
60°	2867	2958	3051
65°	2772	2917	2993
70°	2630	2820	2944
75°	2354	2704	2870
80°	1985	2523	2837
85°	1353	2499	3019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	3.1
10°-20°	562.4	9.1
20°-30°	858.6	13.8
30°-40°	1044.0	16.8
40°-50°	1099.8	17.7
50°-60°	1014.2	16.4
60°-70°	798.7	12.9
70°-80°	479.1	7.7
80°-90°	149.9	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°	1616.3	26.1
0°-40°	2660.3	42.9
0°-60°	4774.3	77.0
0°-90°	6202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2058	2048	2058	2066	2062	196
15°	1984	1984	1984	2014	1992	563
25°	1862	1848	1852	1886	1892	855
35°	1659	1646	1666	1683	1682	1035
45°	1405	1407	1428	1448	1443	1084
55°	1106	1123	1134	1155	1159	987
65°	771	795	811	831	832	762
75°	401	431	460	478	489	426
85°	78	105	143	172	173	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.6	2053.6	2053.6	2053.6	2053.6
2.5°	2062.1	2052.7	2050.2	2057.0	2063.8
5°	2057.8	2047.6	2057.8	2066.4	2062.1
7.5°	2048.5	2039.9	2042.5	2045.9	2044.2
10°	2035.7	2024.6	2020.3	2039.9	2031.4
12.5°	2018.6	2002.4	1998.1	2028.0	2025.4
15°	1983.6	1983.6	1983.6	2013.5	1992.2
17.5°	1970.0	1955.5	1962.3	1983.6	1975.1
20°	1938.4	1922.2	1931.6	1944.4	1939.3
22.5°	1889.0	1894.1	1899.2	1919.7	1905.2
25°	1862.5	1848.0	1851.5	1886.4	1891.5
27.5°	1806.3	1811.4	1815.6	1833.5	1821.6
30°	1757.6	1759.4	1765.3	1786.6	1779.8
32.5°	1707.3	1707.3	1724.4	1744.0	1732.9
35°	1658.7	1645.9	1665.5	1682.6	1681.7
37.5°	1595.6	1595.6	1615.2	1628.0	1634.0
40°	1537.6	1539.3	1553.0	1566.6	1563.2
42.5°	1474.5	1479.6	1494.1	1506.9	1502.7
45°	1405.4	1407.1	1427.6	1448.1	1443.0
47.5°	1334.7	1340.6	1357.7	1377.3	1374.7
50°	1259.6	1265.6	1284.3	1305.7	1308.2
52.5°	1177.7	1193.1	1219.5	1233.2	1235.7
55°	1106.1	1123.2	1134.2	1154.7	1159.0
57.5°	1027.6	1036.2	1056.6	1073.7	1078.8
60°	943.2	950.9	973.1	997.8	1003.8
62.5°	857.1	871.6	901.4	917.6	910.0
65°	770.9	794.8	811.0	830.6	832.3
67.5°	684.0	701.9	724.9	747.1	744.5
70°	591.9	606.3	634.5	653.3	662.6
72.5°	493.8	514.2	545.8	568.0	568.8
75°	400.8	430.7	460.5	478.4	488.7
77.5°	313.0	338.6	372.7	398.3	404.2
80°	226.8	252.4	288.3	312.1	324.1
82.5°	145.0	172.3	211.5	240.5	245.6
85°	77.6	104.9	143.3	172.3	173.1
87.5°	25.6	50.3	75.0	89.5	93.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)