

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: P709987

Luminaire Tested: **24ARS-L3C3-NUV-5000K-HI**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709987
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-5000K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

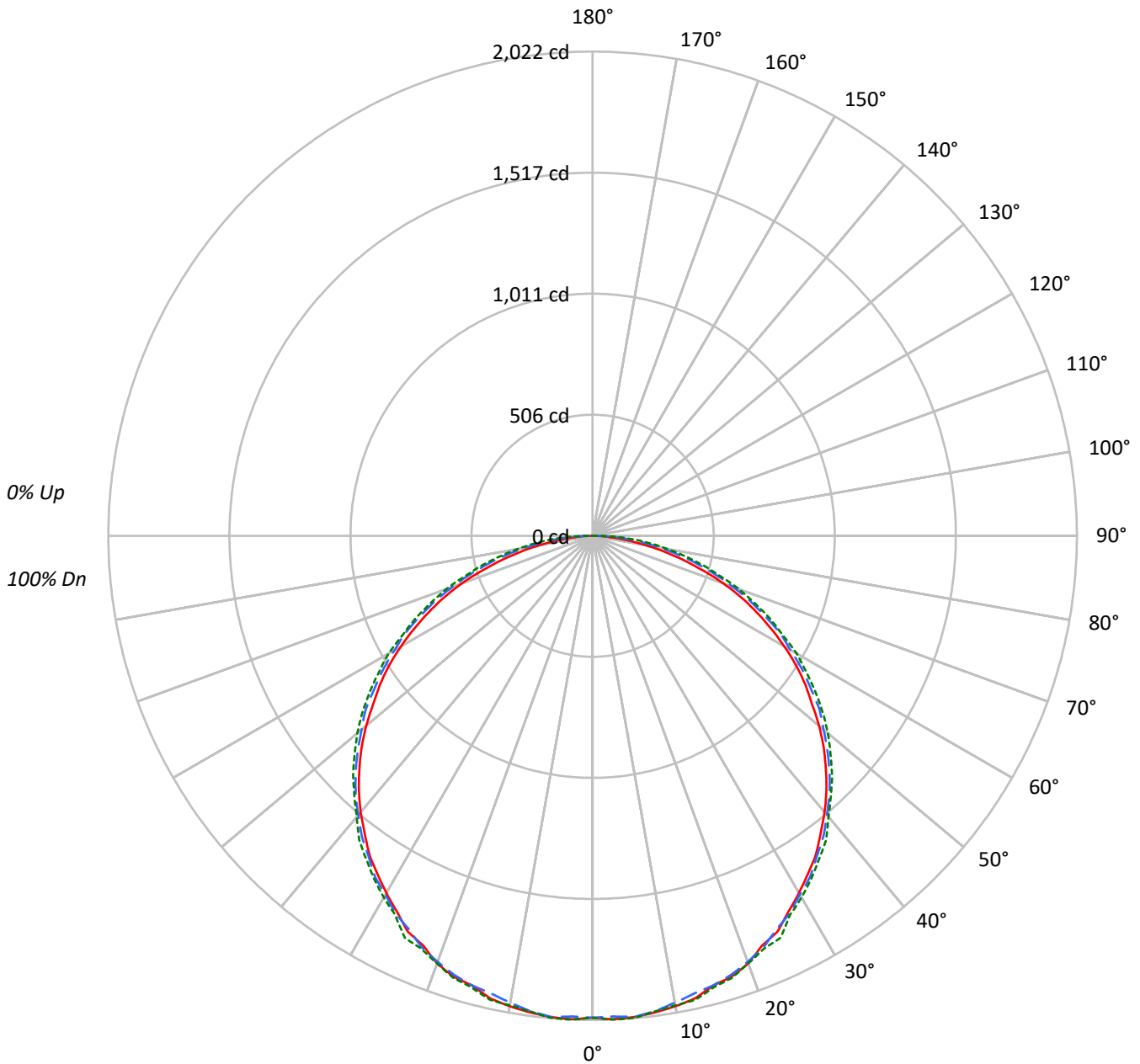
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6078.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 46.4
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°	3059	3059	3059
5°	3077	3077	3083
10°	3079	3056	3072
15°	3059	3059	3072
20°	3073	3062	3074
25°	3061	3043	3109
30°	3023	3036	3061
35°	3016	3028	3058
40°	2990	3020	3040
45°	2960	3007	3040
50°	2919	2976	3032
55°	2872	2946	3010
60°	2810	2899	2990
65°	2717	2858	2934
70°	2577	2763	2886
75°	2307	2650	2812
80°	1946	2473	2780
85°	1327	2448	2959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	3.1
10°-20°	551.2	9.1
20°-30°	841.4	13.8
30°-40°	1023.1	16.8
40°-50°	1077.8	17.7
50°-60°	993.9	16.4
60°-70°	782.7	12.9
70°-80°	469.5	7.7
80°-90°	146.9	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°	1584.0	26.1
0°-40°	2607.1	42.9
0°-60°	4678.8	77.0
0°-90°	6078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2017	2007	2017	2025	2021	192
15°	1944	1944	1944	1973	1952	551
25°	1825	1811	1814	1849	1854	838
35°	1626	1613	1632	1649	1648	1015
45°	1377	1379	1399	1419	1414	1062
55°	1084	1101	1112	1132	1136	967
65°	756	779	795	814	816	747
75°	393	422	451	469	479	418
85°	76	103	140	169	170	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.5	2012.5	2012.5	2012.5	2012.5
2.5°	2020.9	2011.7	2009.2	2015.9	2022.5
5°	2016.7	2006.7	2016.7	2025.1	2020.9
7.5°	2007.5	1999.1	2001.6	2005.0	2003.3
10°	1995.0	1984.1	1979.9	1999.1	1990.8
12.5°	1978.2	1962.4	1958.2	1987.4	1984.9
15°	1944.0	1944.0	1944.0	1973.2	1952.3
17.5°	1930.6	1916.4	1923.1	1944.0	1935.6
20°	1899.7	1883.8	1893.0	1905.5	1900.5
22.5°	1851.2	1856.2	1861.2	1881.3	1867.1
25°	1825.3	1811.1	1814.4	1848.7	1853.7
27.5°	1770.1	1775.2	1779.3	1796.9	1785.2
30°	1722.5	1724.2	1730.0	1750.9	1744.2
32.5°	1673.2	1673.2	1689.9	1709.1	1698.3
35°	1625.6	1613.0	1632.2	1649.0	1648.1
37.5°	1563.7	1563.7	1582.9	1595.5	1601.3
40°	1506.9	1508.5	1521.9	1535.3	1532.0
42.5°	1445.0	1450.0	1464.3	1476.8	1472.6
45°	1377.3	1379.0	1399.1	1419.1	1414.1
47.5°	1308.0	1313.8	1330.5	1349.8	1347.2
50°	1234.4	1240.3	1258.7	1279.6	1282.1
52.5°	1154.2	1169.2	1195.1	1208.5	1211.0
55°	1084.0	1100.7	1111.6	1131.6	1135.8
57.5°	1007.1	1015.5	1035.5	1052.2	1057.2
60°	924.4	931.9	953.6	977.8	983.7
62.5°	839.9	854.1	883.4	899.3	891.8
65°	755.5	778.9	794.8	814.0	815.7
67.5°	670.3	687.8	710.4	732.1	729.6
70°	580.0	594.2	621.8	640.2	649.4
72.5°	483.9	504.0	534.9	556.6	557.5
75°	392.8	422.1	451.3	468.9	478.9
77.5°	306.7	331.8	365.2	390.3	396.2
80°	222.3	247.4	282.5	305.9	317.6
82.5°	142.1	168.8	207.3	235.7	240.7
85°	76.1	102.8	140.4	168.8	169.7
87.5°	25.1	49.3	73.5	87.8	91.9
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)