

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: P709981

Luminaire Tested: **24ARS-L3C3-NUV-3500K-HI**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709981
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-3500K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

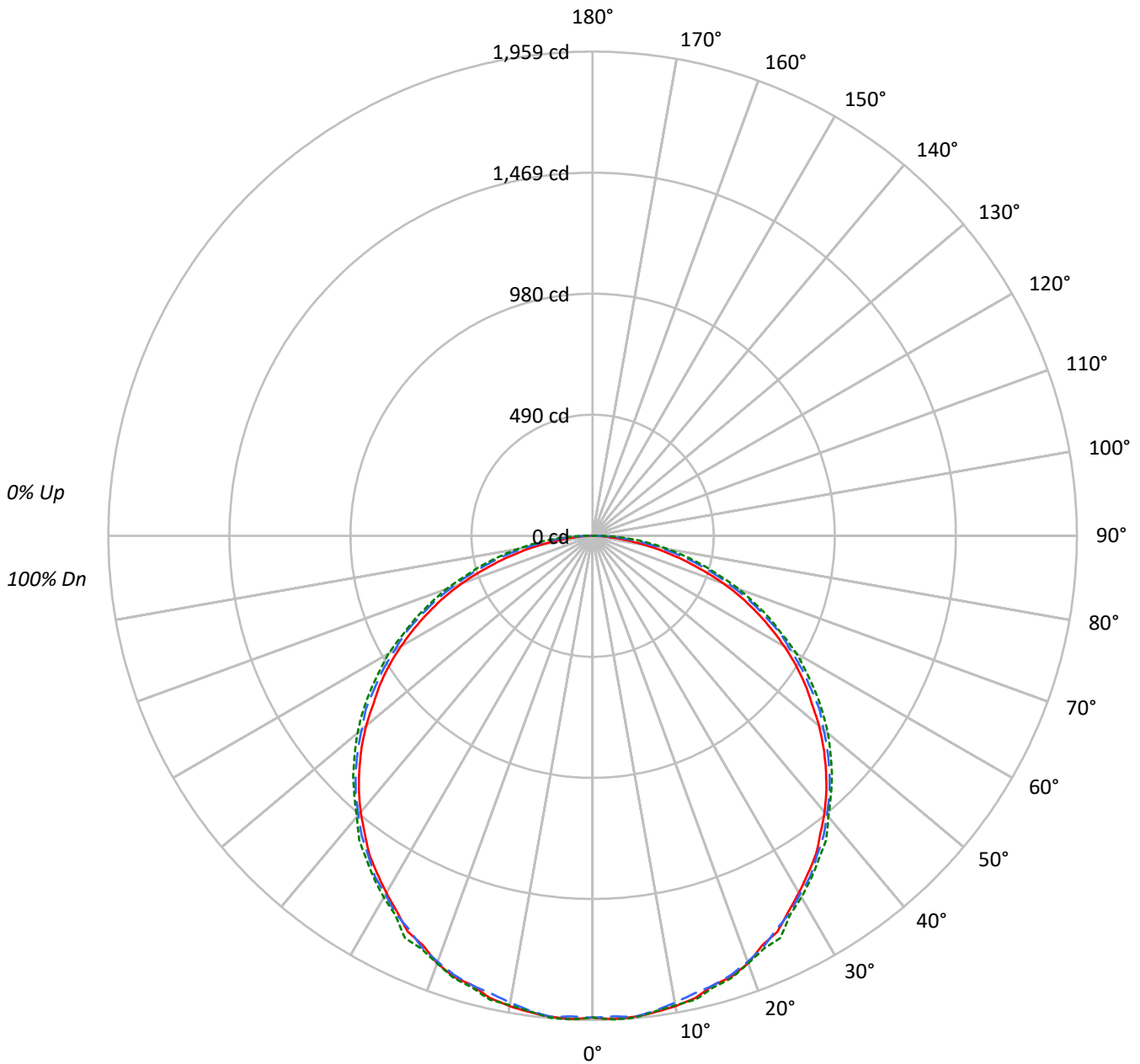
Lumens per Lamp: N/A
Luminaire Lumens: 5887.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 45.9
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°	2963	2963	2963
5°	2980	2980	2986
10°	2982	2960	2976
15°	2963	2963	2975
20°	2976	2966	2977
25°	2965	2947	3011
30°	2928	2941	2965
35°	2921	2933	2962
40°	2896	2925	2944
45°	2868	2913	2944
50°	2827	2883	2936
55°	2782	2853	2915
60°	2721	2808	2896
65°	2632	2768	2841
70°	2497	2677	2795
75°	2234	2567	2724
80°	1884	2395	2692
85°	1285	2372	2865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	3.1
10°-20°	533.9	9.1
20°-30°	815.0	13.8
30°-40°	991.0	16.8
40°-50°	1044.0	17.7
50°-60°	962.6	16.4
60°-70°	758.1	12.9
70°-80°	454.8	7.7
80°-90°	142.3	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°	1534.2	26.1
0°-40°	2525.2	42.9
0°-60°	4531.8	77.0
0°-90°	5887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1953	1944	1953	1961	1957	186
15°	1883	1883	1883	1911	1891	534
25°	1768	1754	1757	1791	1796	811
35°	1574	1562	1581	1597	1596	983
45°	1334	1336	1355	1374	1370	1029
55°	1050	1066	1077	1096	1100	937
65°	732	754	770	788	790	723
75°	380	409	437	454	464	405
85°	74	100	136	164	164	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.3	1949.3	1949.3	1949.3	1949.3
2.5°	1957.4	1948.5	1946.0	1952.5	1959.0
5°	1953.3	1943.6	1953.3	1961.4	1957.4
7.5°	1944.4	1936.3	1938.7	1942.0	1940.4
10°	1932.3	1921.7	1917.7	1936.3	1928.2
12.5°	1916.1	1900.7	1896.7	1925.0	1922.6
15°	1882.9	1882.9	1882.9	1911.2	1891.0
17.5°	1869.9	1856.2	1862.7	1882.9	1874.8
20°	1840.0	1824.6	1833.5	1845.7	1840.8
22.5°	1793.0	1797.9	1802.8	1822.2	1808.4
25°	1767.9	1754.2	1757.4	1790.6	1795.5
27.5°	1714.5	1719.4	1723.4	1740.4	1729.1
30°	1668.4	1670.0	1675.7	1695.9	1689.4
32.5°	1620.6	1620.6	1636.8	1655.4	1644.9
35°	1574.5	1562.3	1580.9	1597.1	1596.3
37.5°	1514.6	1514.6	1533.2	1545.3	1551.0
40°	1459.5	1461.1	1474.1	1487.0	1483.8
42.5°	1399.6	1404.5	1418.2	1430.4	1426.3
45°	1334.1	1335.7	1355.1	1374.5	1369.7
47.5°	1266.9	1272.5	1288.7	1307.3	1304.9
50°	1195.6	1201.3	1219.1	1239.3	1241.8
52.5°	1117.9	1132.5	1157.6	1170.5	1173.0
55°	1049.9	1066.1	1076.6	1096.1	1100.1
57.5°	975.4	983.5	1003.0	1019.2	1024.0
60°	895.3	902.6	923.6	947.1	952.8
62.5°	813.5	827.3	855.6	871.0	863.7
65°	731.8	754.5	769.8	788.5	790.1
67.5°	649.2	666.2	688.1	709.1	706.7
70°	561.8	575.6	602.3	620.1	629.0
72.5°	468.7	488.1	518.1	539.1	539.9
75°	380.5	408.8	437.1	454.1	463.8
77.5°	297.1	321.4	353.8	378.0	383.7
80°	215.3	239.6	273.6	296.3	307.6
82.5°	137.6	163.5	200.8	228.3	233.1
85°	73.7	99.6	136.0	163.5	164.3
87.5°	24.3	47.8	71.2	85.0	89.0
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)