

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: P709982

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

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709982
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-LOW
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

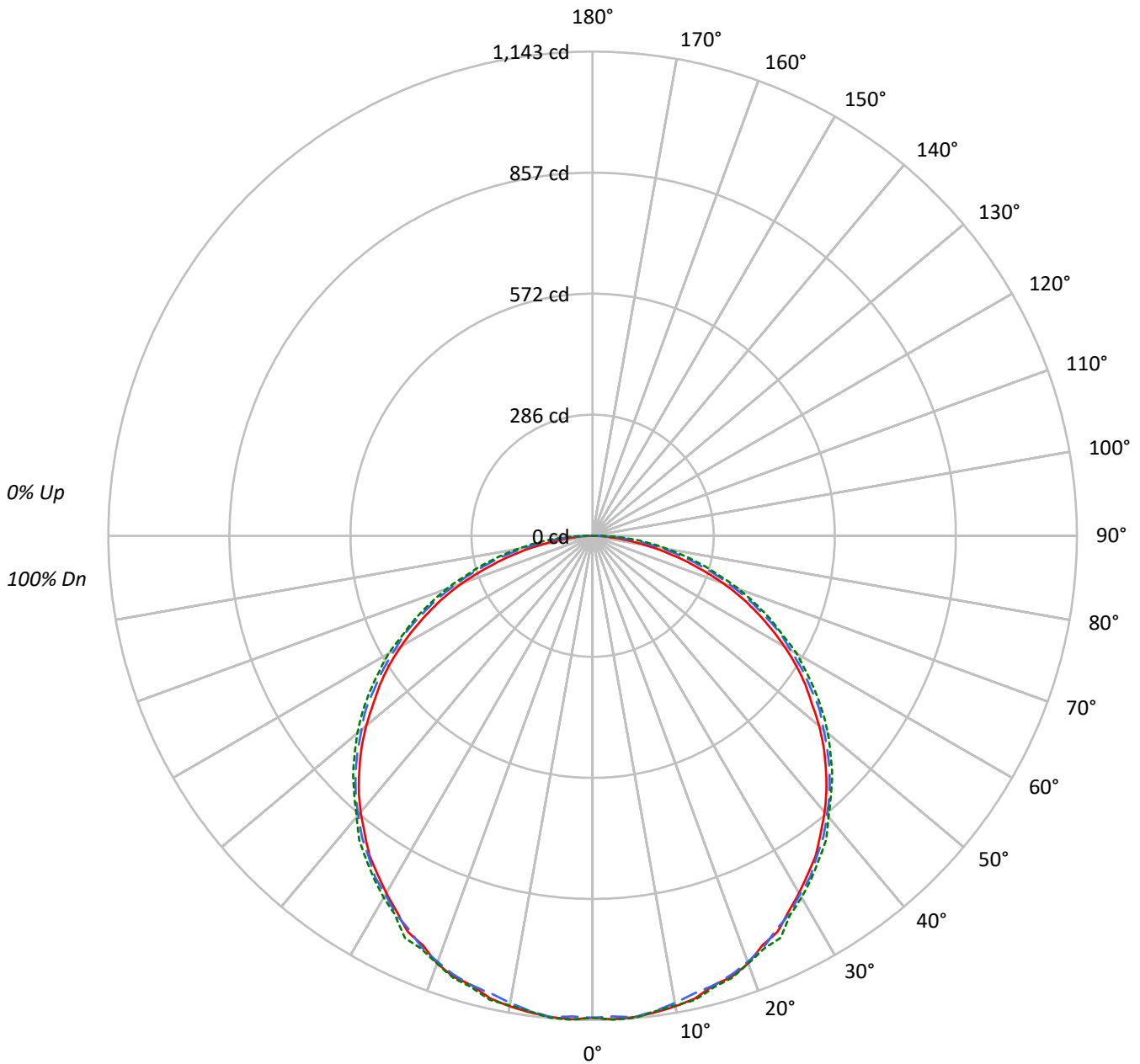
Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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					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	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°	1729	1729	1729
5°	1739	1739	1743
10°	1741	1727	1737
15°	1729	1729	1737
20°	1737	1731	1738
25°	1730	1720	1757
30°	1709	1716	1730
35°	1705	1712	1729
40°	1690	1707	1718
45°	1674	1700	1718
50°	1650	1682	1714
55°	1624	1665	1701
60°	1589	1639	1690
65°	1536	1616	1658
70°	1457	1562	1631
75°	1304	1498	1590
80°	1100	1398	1571
85°	750	1385	1672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.1
10°-20°	311.6	9.1
20°-30°	475.7	13.8
30°-40°	578.4	16.8
40°-50°	609.3	17.7
50°-60°	561.9	16.4
60°-70°	442.5	12.9
70°-80°	265.4	7.7
80°-90°	83.1	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°	895.4	26.1
0°-40°	1473.8	42.9
0°-60°	2645.0	77.0
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1140	1134	1140	1145	1142	108
15°	1099	1099	1099	1116	1104	312
25°	1032	1024	1026	1045	1048	473
35°	919	912	923	932	932	574
45°	779	780	791	802	799	600
55°	613	622	628	640	642	547
65°	427	440	449	460	461	422
75°	222	239	255	265	271	236
85°	43	58	79	95	96	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1142.4	1137.2	1135.8	1139.6	1143.4
5°	1140.1	1134.4	1140.1	1144.8	1142.4
7.5°	1134.9	1130.1	1131.6	1133.5	1132.5
10°	1127.8	1121.6	1119.3	1130.1	1125.4
12.5°	1118.3	1109.4	1107.0	1123.5	1122.1
15°	1099.0	1099.0	1099.0	1115.5	1103.7
17.5°	1091.4	1083.4	1087.2	1099.0	1094.2
20°	1073.9	1064.9	1070.1	1077.2	1074.4
22.5°	1046.5	1049.4	1052.2	1063.5	1055.5
25°	1031.9	1023.8	1025.7	1045.1	1047.9
27.5°	1000.7	1003.5	1005.9	1015.8	1009.2
30°	973.8	974.7	978.0	989.8	986.0
32.5°	945.9	945.9	955.3	966.2	960.1
35°	919.0	911.9	922.7	932.2	931.7
37.5°	884.0	884.0	894.9	901.9	905.3
40°	851.9	852.8	860.4	867.9	866.0
42.5°	816.9	819.7	827.8	834.9	832.5
45°	778.6	779.6	790.9	802.3	799.4
47.5°	739.4	742.7	752.2	763.0	761.6
50°	697.8	701.1	711.5	723.4	724.8
52.5°	652.5	661.0	675.6	683.2	684.6
55°	612.8	622.2	628.4	639.7	642.1
57.5°	569.3	574.1	585.4	594.8	597.7
60°	522.6	526.8	539.1	552.8	556.1
62.5°	474.8	482.9	499.4	508.4	504.1
65°	427.1	440.3	449.3	460.2	461.1
67.5°	378.9	388.8	401.6	413.9	412.5
70°	327.9	335.9	351.5	361.9	367.1
72.5°	273.6	284.9	302.4	314.7	315.1
75°	222.1	238.6	255.1	265.1	270.7
77.5°	173.4	187.6	206.5	220.6	224.0
80°	125.7	139.9	159.7	172.9	179.5
82.5°	80.3	95.4	117.2	133.2	136.1
85°	43.0	58.1	79.4	95.4	95.9
87.5°	14.2	27.9	41.6	49.6	52.0
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)