

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: P709963

Luminaire Tested: **14ARS-L3C3-NUV-3500K-HI**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ARS-L3C3-NUV-3500K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

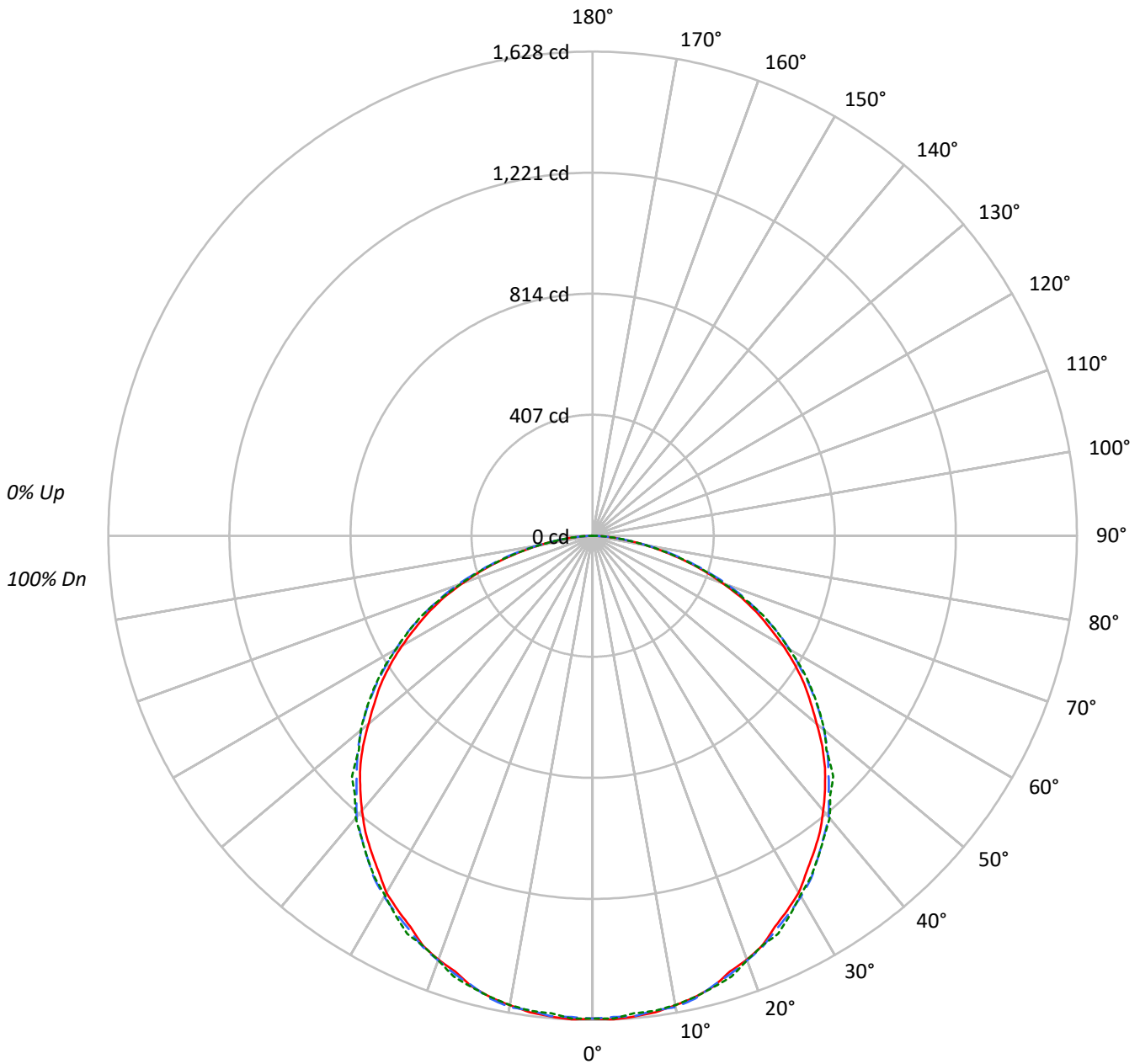
Lumens per Lamp: N/A
Luminaire Lumens: 4793.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5312	5312	5312
5°	5329	5325	5293
10°	5325	5347	5323
15°	5315	5305	5323
20°	5282	5290	5287
25°	5236	5273	5329
30°	5236	5294	5275
35°	5181	5275	5275
40°	5152	5274	5293
45°	5113	5188	5293
50°	5005	5170	5181
55°	4956	5107	5128
60°	4842	5009	4995
65°	4706	4865	4893
70°	4419	4636	4482
75°	4004	4190	4087
80°	3384	3482	3384
85°	2313	2452	2561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	3.2
10°-20°	443.0	9.2
20°-30°	673.8	14.1
30°-40°	823.0	17.2
40°-50°	864.8	18.0
50°-60°	794.4	16.6
60°-70°	614.8	12.8
70°-80°	344.8	7.2
80°-90°	80.9	1.7
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°	1270.4	26.5
0°-40°	2093.4	43.7
0°-60°	3752.5	78.3
0°-90°	4793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1622	1605	1621	1617	1612	154
15°	1569	1570	1566	1574	1571	442
25°	1450	1454	1460	1468	1476	671
35°	1297	1304	1320	1324	1320	812
45°	1105	1111	1121	1128	1144	850
55°	869	883	895	892	899	774
65°	608	616	628	628	632	599
75°	317	329	331	320	323	336
85°	62	63	65	66	68	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.3	1623.3	1623.3	1623.3	1623.3
2.5°	1627.7	1620.3	1619.6	1622.5	1624.7
5°	1622.5	1604.9	1621.1	1617.4	1611.5
7.5°	1615.9	1591.0	1608.6	1610.8	1610.8
10°	1602.7	1591.7	1609.3	1604.9	1602.0
12.5°	1588.8	1588.1	1593.9	1591.7	1588.8
15°	1569.0	1569.7	1566.1	1574.1	1571.2
17.5°	1536.0	1547.0	1544.1	1553.6	1553.6
20°	1516.9	1511.1	1519.1	1523.5	1518.4
22.5°	1491.3	1479.6	1495.0	1497.9	1491.3
25°	1450.2	1453.9	1460.5	1467.8	1475.9
27.5°	1418.7	1420.9	1431.2	1429.7	1437.0
30°	1385.7	1387.2	1401.1	1407.7	1396.0
32.5°	1338.8	1354.9	1366.6	1363.7	1363.0
35°	1297.0	1303.6	1320.5	1324.1	1320.5
37.5°	1255.2	1259.6	1276.5	1275.7	1277.9
40°	1206.1	1214.9	1234.7	1228.1	1239.1
42.5°	1156.2	1166.5	1174.6	1181.9	1182.6
45°	1104.9	1110.8	1121.0	1127.6	1143.8
47.5°	1047.0	1060.9	1071.2	1076.3	1066.0
50°	983.2	1006.7	1015.5	1020.6	1017.7
52.5°	924.5	949.5	956.8	956.8	959.0
55°	868.8	882.7	895.2	892.3	898.9
57.5°	805.8	821.2	829.2	832.9	835.8
60°	739.8	761.0	765.4	764.0	763.2
62.5°	671.6	690.7	699.5	693.6	698.7
65°	607.8	615.9	628.3	628.3	632.0
67.5°	540.4	549.2	557.2	555.8	549.9
70°	461.9	474.4	484.6	475.1	468.5
72.5°	393.0	403.2	404.7	397.4	398.1
75°	316.7	329.2	331.4	320.4	323.3
77.5°	244.9	258.1	260.3	248.5	248.5
80°	179.6	188.4	184.8	179.6	179.6
82.5°	116.6	122.4	118.8	121.7	118.8
85°	61.6	63.1	65.3	66.0	68.2
87.5°	20.5	22.7	22.0	19.8	18.3
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)