

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: P709969

Luminaire Tested: **14ARS-L3C3-NUV-5000K-HI**

Issue Date: 10/4/2023



Test Information

Test Method: LM-79-08
Report Number: P709969
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-5000K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

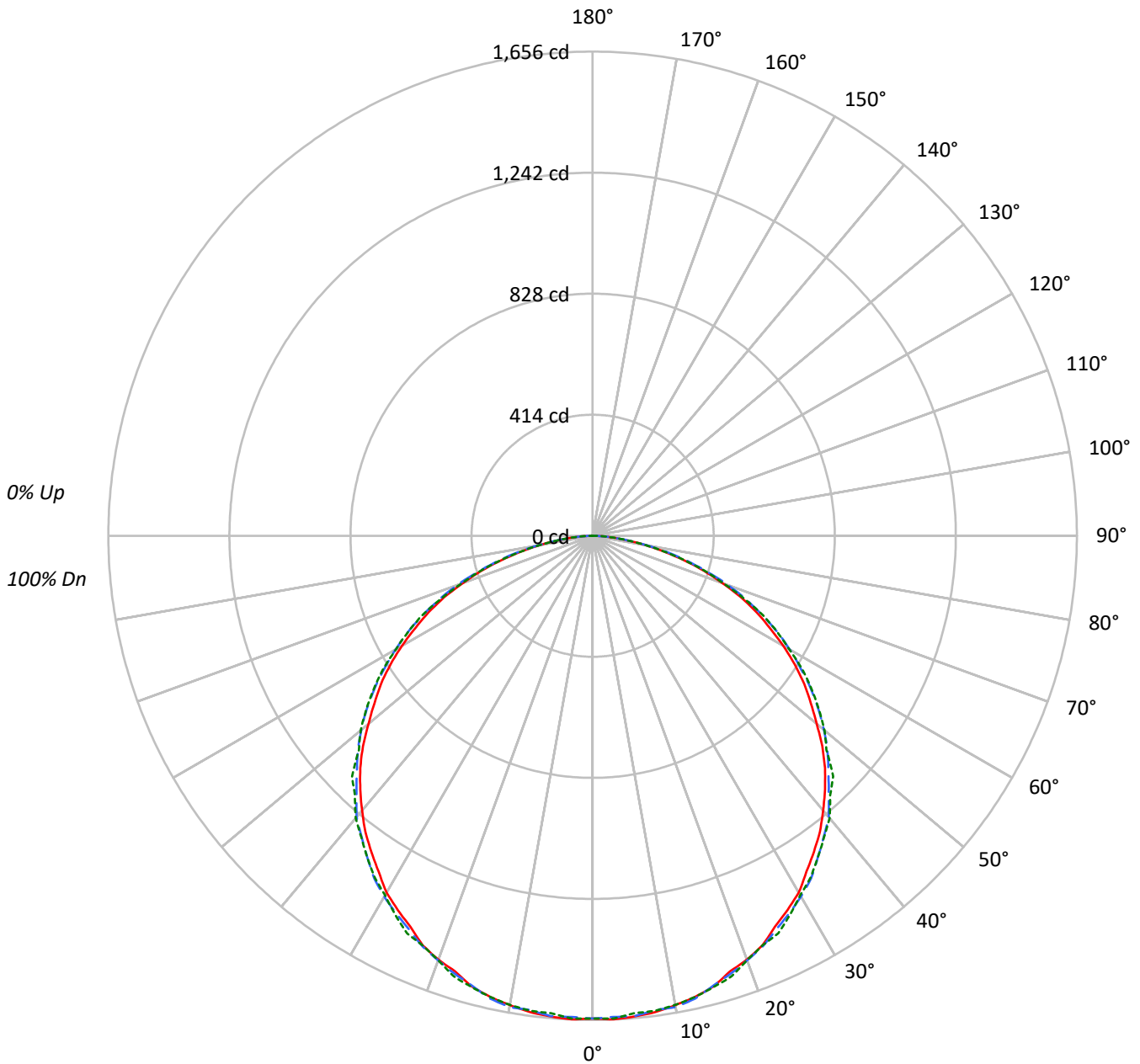
Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 35.4
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

TEST NUMBER: P709969

CATALOG NUMBER: 14ARS-L3C3-NUV-5000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709969

CATALOG NUMBER: 14ARS-L3C3-NUV-5000K-HI

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°	5402	5402	5402
5°	5421	5416	5384
10°	5417	5439	5414
15°	5406	5396	5414
20°	5373	5380	5378
25°	5325	5363	5420
30°	5325	5385	5365
35°	5270	5365	5365
40°	5240	5364	5383
45°	5200	5276	5383
50°	5091	5258	5269
55°	5041	5194	5216
60°	4924	5095	5080
65°	4787	4948	4977
70°	4495	4716	4559
75°	4074	4262	4158
80°	3443	3541	3443
85°	2350	2493	2606



TEST NUMBER: P709969

CATALOG NUMBER: 14ARS-L3C3-NUV-5000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.2
10°-20°	450.5	9.2
20°-30°	685.3	14.1
30°-40°	837.0	17.2
40°-50°	879.6	18.0
50°-60°	808.0	16.6
60°-70°	625.3	12.8
70°-80°	350.7	7.2
80°-90°	82.3	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°	1292.1	26.5
0°-40°	2129.2	43.7
0°-60°	3816.7	78.3
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1650	1632	1649	1645	1639	157
15°	1596	1597	1593	1601	1598	449
25°	1475	1479	1486	1493	1501	682
35°	1319	1326	1343	1347	1343	826
45°	1124	1130	1140	1147	1163	865
55°	884	898	910	908	914	787
65°	618	626	639	639	643	609
75°	322	335	337	326	329	342
85°	63	64	66	67	69	80
90°	0	0	0	0	0	



TEST NUMBER: P709969

CATALOG NUMBER: 14ARS-L3C3-NUV-5000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.0	1651.0	1651.0	1651.0	1651.0
2.5°	1655.5	1648.0	1647.3	1650.3	1652.5
5°	1650.3	1632.4	1648.8	1645.1	1639.1
7.5°	1643.6	1618.2	1636.1	1638.4	1638.4
10°	1630.2	1619.0	1636.9	1632.4	1629.4
12.5°	1616.0	1615.2	1621.2	1619.0	1616.0
15°	1595.8	1596.6	1592.9	1601.1	1598.1
17.5°	1562.3	1573.5	1570.5	1580.2	1580.2
20°	1542.9	1536.9	1545.1	1549.6	1544.4
22.5°	1516.8	1504.9	1520.5	1523.5	1516.8
25°	1475.0	1478.8	1485.5	1492.9	1501.1
27.5°	1443.0	1445.2	1455.7	1454.2	1461.6
30°	1409.4	1410.9	1425.1	1431.8	1419.9
32.5°	1361.7	1378.1	1390.0	1387.0	1386.3
35°	1319.2	1325.9	1343.0	1346.8	1343.0
37.5°	1276.7	1281.2	1298.3	1297.6	1299.8
40°	1226.7	1235.7	1255.8	1249.1	1260.3
42.5°	1176.0	1186.4	1194.6	1202.1	1202.9
45°	1123.8	1129.8	1140.2	1146.9	1163.3
47.5°	1064.9	1079.1	1089.5	1094.7	1084.3
50°	1000.0	1023.9	1032.8	1038.0	1035.1
52.5°	940.4	965.7	973.2	973.2	975.4
55°	883.7	897.9	910.5	907.5	914.3
57.5°	819.5	835.2	843.4	847.1	850.1
60°	752.4	774.1	778.5	777.0	776.3
62.5°	683.1	702.5	711.4	705.5	710.7
65°	618.2	626.4	639.1	639.1	642.8
67.5°	549.6	558.5	566.7	565.3	559.3
70°	469.8	482.5	492.9	483.2	476.5
72.5°	399.7	410.1	411.6	404.2	404.9
75°	322.2	334.8	337.1	325.9	328.9
77.5°	249.1	262.5	264.7	252.8	252.8
80°	182.7	191.7	187.9	182.7	182.7
82.5°	118.6	124.5	120.8	123.8	120.8
85°	62.6	64.1	66.4	67.1	69.4
87.5°	20.9	23.1	22.4	20.1	18.6
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)