

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: P709597

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ARS-L3C3-UNV-3500K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

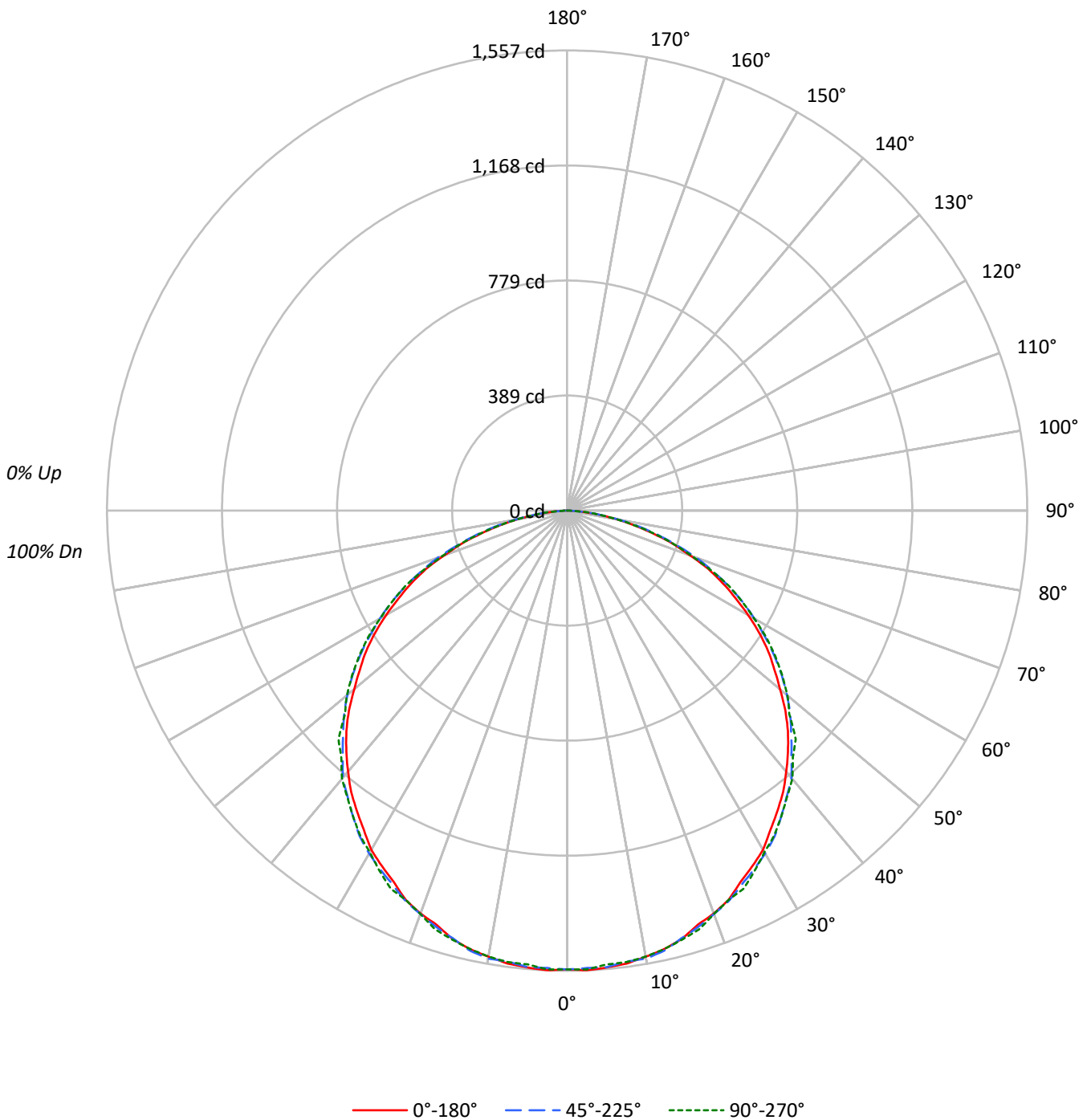
Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): 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	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°	5080	5080	5080
5°	5097	5093	5063
10°	5093	5114	5091
15°	5083	5074	5091
20°	5052	5059	5057
25°	5008	5043	5096
30°	5008	5063	5045
35°	4955	5045	5045
40°	4927	5044	5062
45°	4890	4961	5062
50°	4787	4944	4955
55°	4740	4885	4905
60°	4630	4791	4777
65°	4501	4653	4680
70°	4227	4434	4287
75°	3830	4007	3909
80°	3237	3330	3237
85°	2211	2343	2448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.2
10°-20°	423.6	9.2
20°-30°	644.4	14.1
30°-40°	787.1	17.2
40°-50°	827.1	18.0
50°-60°	759.8	16.6
60°-70°	588.0	12.8
70°-80°	329.7	7.2
80°-90°	77.4	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°	1215.0	26.5
0°-40°	2002.1	43.7
0°-60°	3588.9	78.3
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1535	1550	1547	1541	148
15°	1501	1501	1498	1506	1503	423
25°	1387	1390	1397	1404	1412	641
35°	1240	1247	1263	1266	1263	777
45°	1057	1062	1072	1078	1094	813
55°	831	844	856	853	860	740
65°	581	589	601	601	604	573
75°	303	315	317	306	309	322
85°	59	60	62	63	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1556.7	1549.7	1549.0	1551.8	1553.9
5°	1551.8	1534.9	1550.4	1546.9	1541.3
7.5°	1545.5	1521.6	1538.5	1540.6	1540.6
10°	1532.8	1522.3	1539.2	1534.9	1532.1
12.5°	1519.5	1518.8	1524.4	1522.3	1519.5
15°	1500.6	1501.3	1497.8	1505.5	1502.7
17.5°	1469.0	1479.6	1476.7	1485.9	1485.9
20°	1450.8	1445.2	1452.9	1457.1	1452.2
22.5°	1426.3	1415.0	1429.8	1432.6	1426.3
25°	1387.0	1390.5	1396.8	1403.8	1411.5
27.5°	1356.8	1358.9	1368.8	1367.4	1374.4
30°	1325.3	1326.7	1340.0	1346.3	1335.1
32.5°	1280.4	1295.8	1307.1	1304.2	1303.5
35°	1240.4	1246.7	1262.9	1266.4	1262.9
37.5°	1200.5	1204.7	1220.8	1220.1	1222.2
40°	1153.5	1161.9	1180.8	1174.5	1185.0
42.5°	1105.8	1115.6	1123.3	1130.3	1131.1
45°	1056.7	1062.3	1072.1	1078.5	1093.9
47.5°	1001.3	1014.6	1024.5	1029.4	1019.6
50°	940.3	962.8	971.2	976.1	973.3
52.5°	884.2	908.1	915.1	915.1	917.2
55°	830.9	844.3	856.2	853.4	859.7
57.5°	770.6	785.4	793.1	796.6	799.4
60°	707.5	727.9	732.1	730.7	730.0
62.5°	642.3	660.5	669.0	663.3	668.3
65°	581.3	589.0	600.9	600.9	604.4
67.5°	516.8	525.2	532.9	531.5	525.9
70°	441.8	453.7	463.5	454.4	448.1
72.5°	375.8	385.7	387.1	380.1	380.8
75°	302.9	314.8	316.9	306.4	309.2
77.5°	234.2	246.8	248.9	237.7	237.7
80°	171.8	180.2	176.7	171.8	171.8
82.5°	111.5	117.1	113.6	116.4	113.6
85°	58.9	60.3	62.4	63.1	65.2
87.5°	19.6	21.7	21.0	18.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)