

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: P709600

Luminaire Tested: **14ARS-L3C3-UNV-4000K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709600
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-4000K-HI
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

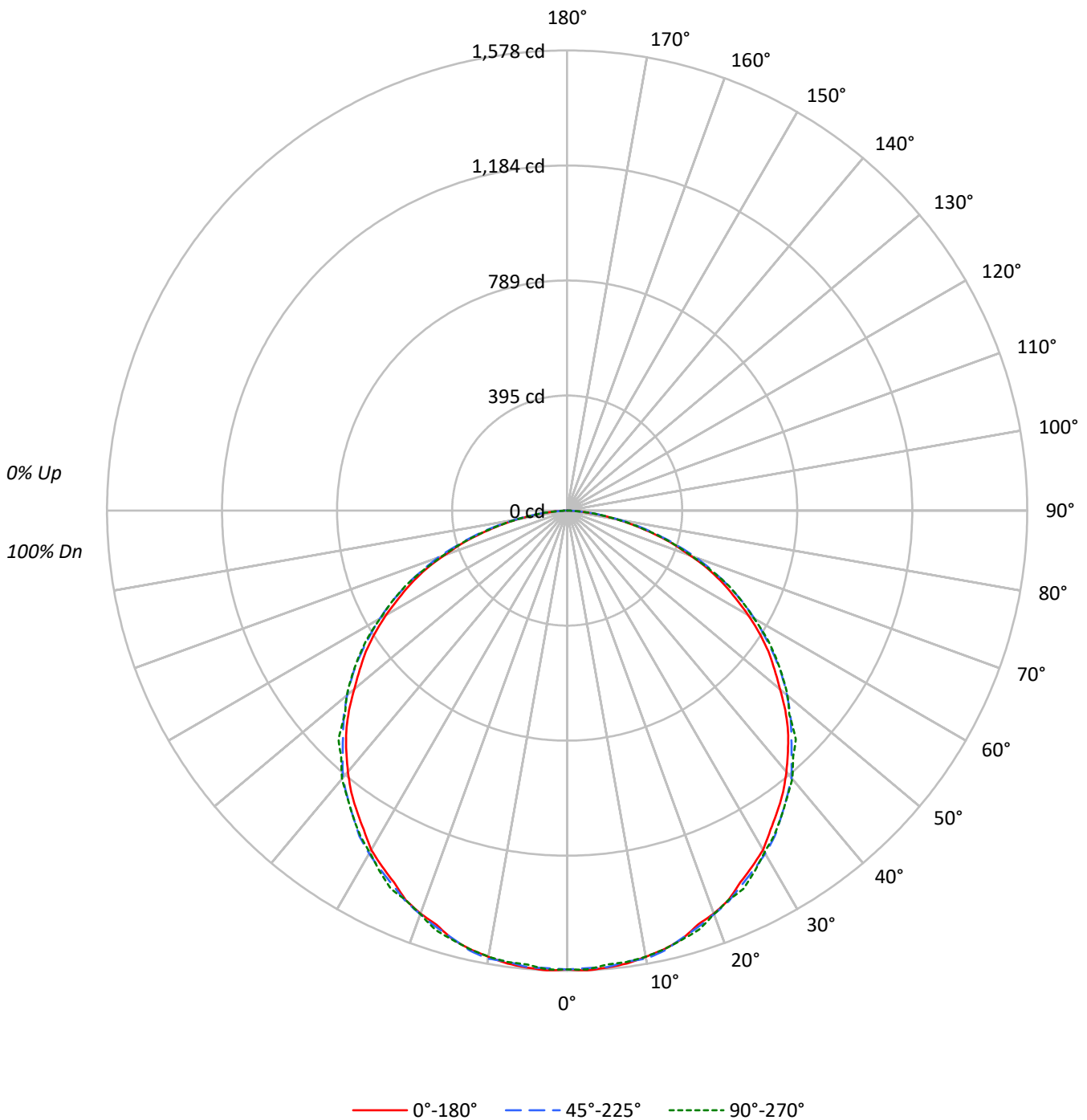
Lumens per Lamp: N/A
Luminaire Lumens: 4647.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 32.9
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				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°	5150	5150	5150
5°	5167	5163	5132
10°	5163	5184	5161
15°	5153	5144	5160
20°	5121	5129	5127
25°	5077	5112	5166
30°	5076	5133	5114
35°	5023	5114	5114
40°	4995	5113	5131
45°	4957	5030	5132
50°	4852	5012	5023
55°	4806	4951	4972
60°	4694	4857	4843
65°	4563	4717	4744
70°	4284	4496	4345
75°	3883	4062	3964
80°	3283	3375	3283
85°	2241	2377	2482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.2
10°-20°	429.5	9.2
20°-30°	653.2	14.1
30°-40°	797.9	17.2
40°-50°	838.4	18.0
50°-60°	770.2	16.6
60°-70°	596.1	12.8
70°-80°	334.3	7.2
80°-90°	78.4	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°	1231.7	26.5
0°-40°	2029.6	43.7
0°-60°	3638.2	78.3
0°-90°	4647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1573	1556	1572	1568	1562	150
15°	1521	1522	1518	1526	1523	428
25°	1406	1410	1416	1423	1431	650
35°	1258	1264	1280	1284	1280	788
45°	1071	1077	1087	1093	1109	824
55°	842	856	868	865	872	751
65°	589	597	609	609	613	581
75°	307	319	321	311	314	326
85°	60	61	63	64	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1578.1	1571.0	1570.3	1573.1	1575.2
5°	1573.1	1556.0	1571.7	1568.1	1562.4
7.5°	1566.7	1542.5	1559.6	1561.7	1561.7
10°	1553.9	1543.2	1560.3	1556.0	1553.2
12.5°	1540.4	1539.7	1545.4	1543.2	1540.4
15°	1521.2	1521.9	1518.4	1526.2	1523.3
17.5°	1489.2	1499.9	1497.0	1506.3	1506.3
20°	1470.7	1465.1	1472.9	1477.1	1472.2
22.5°	1445.9	1434.5	1449.4	1452.3	1445.9
25°	1406.1	1409.6	1416.0	1423.1	1430.9
27.5°	1375.5	1377.6	1387.6	1386.1	1393.3
30°	1343.5	1344.9	1358.4	1364.8	1353.5
32.5°	1298.0	1313.6	1325.0	1322.2	1321.5
35°	1257.5	1263.9	1280.2	1283.8	1280.2
37.5°	1217.0	1221.2	1237.6	1236.9	1239.0
40°	1169.3	1177.9	1197.1	1190.7	1201.3
42.5°	1121.0	1131.0	1138.8	1145.9	1146.6
45°	1071.2	1076.9	1086.9	1093.3	1108.9
47.5°	1015.1	1028.6	1038.5	1043.5	1033.6
50°	953.2	976.0	984.5	989.5	986.7
52.5°	896.4	920.5	927.7	927.7	929.8
55°	842.4	855.9	867.9	865.1	871.5
57.5°	781.2	796.1	804.0	807.5	810.4
60°	717.2	737.9	742.1	740.7	740.0
62.5°	651.1	669.6	678.1	672.5	677.4
65°	589.3	597.1	609.2	609.2	612.7
67.5°	523.9	532.4	540.2	538.8	533.1
70°	447.8	459.9	469.9	460.6	454.2
72.5°	381.0	391.0	392.4	385.3	386.0
75°	307.1	319.2	321.3	310.6	313.5
77.5°	237.4	250.2	252.4	241.0	241.0
80°	174.2	182.7	179.1	174.2	174.2
82.5°	113.0	118.7	115.2	118.0	115.2
85°	59.7	61.1	63.3	64.0	66.1
87.5°	19.9	22.0	21.3	19.2	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)