

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: P709603

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709603  
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-5000K-HI  
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

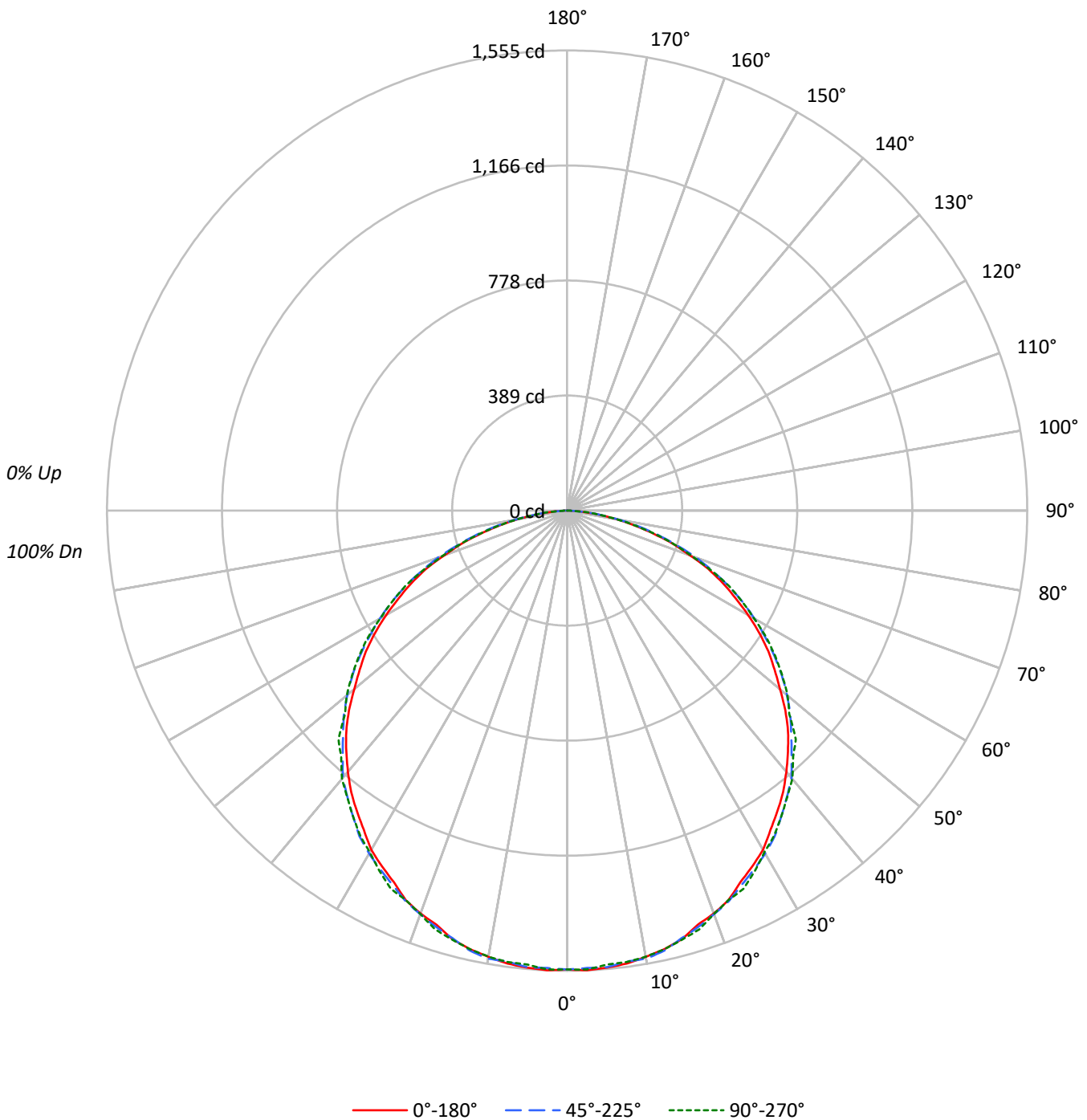
Lumens per Lamp: N/A  
Luminaire Lumens: 4579.0 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.1  
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°	5075	5075	5075
5°	5092	5087	5057
10°	5088	5109	5085
15°	5078	5068	5085
20°	5046	5054	5051
25°	5002	5038	5091
30°	5002	5057	5039
35°	4950	5039	5039
40°	4922	5038	5057
45°	4885	4956	5057
50°	4782	4938	4949
55°	4735	4879	4899
60°	4625	4786	4772
65°	4496	4648	4675
70°	4222	4430	4282
75°	3826	4003	3905
80°	3234	3326	3234
85°	2208	2339	2444



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	3.2
10°-20°	423.2	9.2
20°-30°	643.7	14.1
30°-40°	786.2	17.2
40°-50°	826.1	18.0
50°-60°	758.9	16.6
60°-70°	587.4	12.8
70°-80°	329.4	7.2
80°-90°	77.3	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°	1213.7	26.5
0°-40°	1999.9	43.7
0°-60°	3585.0	78.3
0°-90°	4579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1550	1533	1549	1545	1540	147
15°	1499	1500	1496	1504	1501	422
25°	1386	1389	1395	1402	1410	641
35°	1239	1245	1262	1265	1262	776
45°	1056	1061	1071	1077	1093	812
55°	830	843	855	852	859	740
65°	581	588	600	600	604	572
75°	303	314	317	306	309	321
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°	1550.8	1550.8	1550.8	1550.8	1550.8
2.5°	1555.0	1548.0	1547.3	1550.1	1552.2
5°	1550.1	1533.3	1548.7	1545.2	1539.6
7.5°	1543.8	1520.0	1536.8	1538.9	1538.9
10°	1531.2	1520.7	1537.5	1533.3	1530.5
12.5°	1517.9	1517.2	1522.8	1520.7	1517.9
15°	1499.0	1499.7	1496.1	1503.9	1501.1
17.5°	1467.4	1477.9	1475.1	1484.2	1484.2
20°	1449.2	1443.6	1451.3	1455.5	1450.6
22.5°	1424.7	1413.5	1428.2	1431.0	1424.7
25°	1385.5	1389.0	1395.3	1402.3	1410.0
27.5°	1355.4	1357.5	1367.3	1365.9	1372.9
30°	1323.8	1325.2	1338.5	1344.9	1333.6
32.5°	1279.0	1294.4	1305.6	1302.8	1302.1
35°	1239.1	1245.4	1261.5	1265.0	1261.5
37.5°	1199.2	1203.4	1219.5	1218.8	1220.9
40°	1152.2	1160.6	1179.5	1173.2	1183.8
42.5°	1104.6	1114.4	1122.1	1129.1	1129.8
45°	1055.6	1061.2	1071.0	1077.3	1092.7
47.5°	1000.2	1013.5	1023.3	1028.3	1018.4
50°	939.3	961.7	970.1	975.0	972.2
52.5°	883.3	907.1	914.1	914.1	916.2
55°	830.0	843.3	855.2	852.4	858.7
57.5°	769.8	784.5	792.2	795.7	798.5
60°	706.7	727.1	731.3	729.9	729.2
62.5°	641.6	659.8	668.2	662.6	667.5
65°	580.7	588.4	600.3	600.3	603.8
67.5°	516.2	524.6	532.3	530.9	525.3
70°	441.3	453.2	463.0	453.9	447.6
72.5°	375.4	385.2	386.6	379.6	380.3
75°	302.6	314.5	316.6	306.1	308.9
77.5°	233.9	246.6	248.7	237.5	237.5
80°	171.6	180.0	176.5	171.6	171.6
82.5°	111.4	117.0	113.5	116.3	113.5
85°	58.8	60.2	62.3	63.0	65.1
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)