

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: P709595

Luminaire Tested: **14ARS-L3C3-HO-UNV-5000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709595
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-HO-UNV-5000K-LOW
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

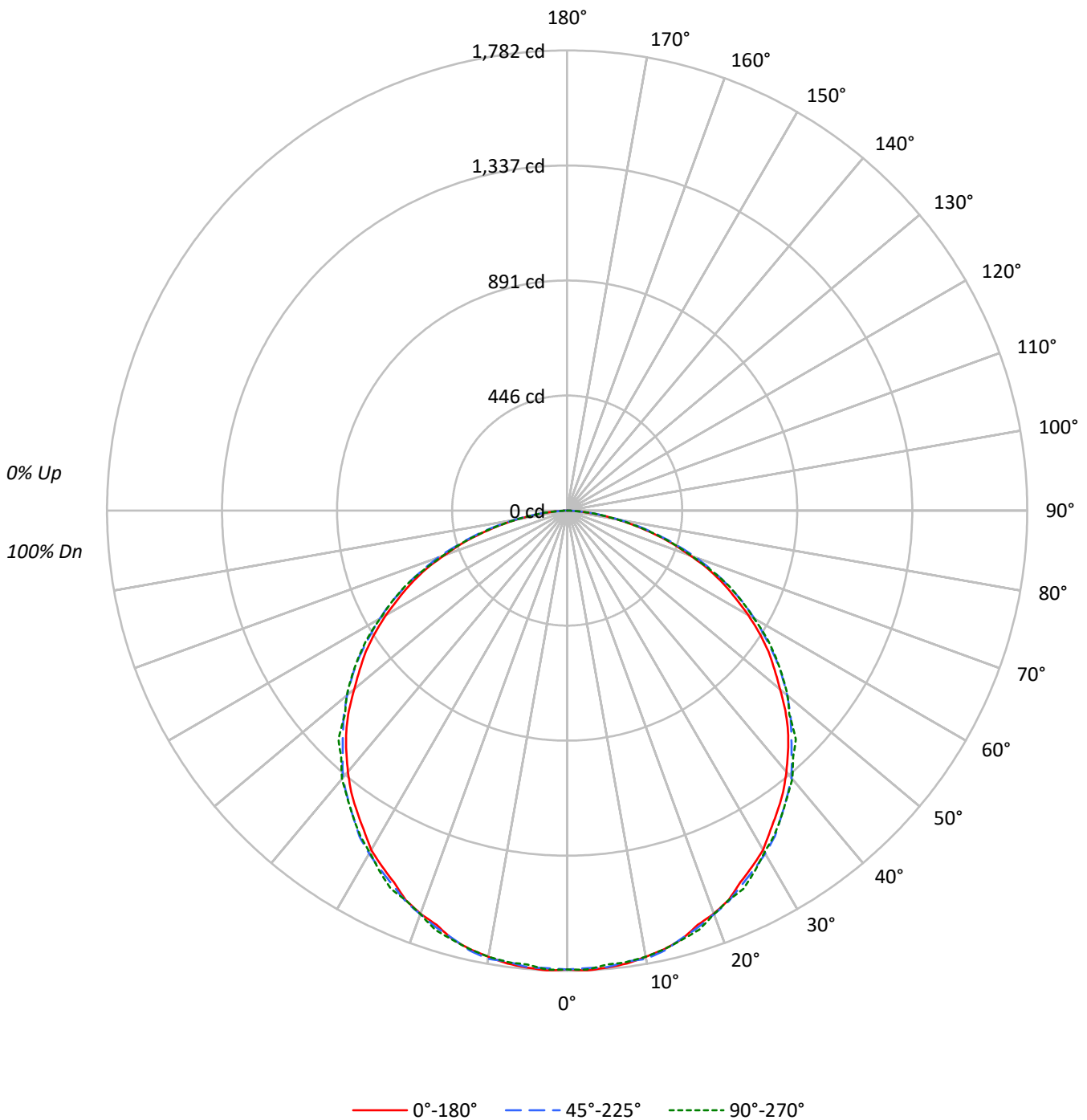
Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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°	5816	5816	5816
5°	5836	5830	5796
10°	5831	5855	5828
15°	5820	5809	5828
20°	5784	5792	5790
25°	5733	5774	5835
30°	5733	5796	5775
35°	5673	5775	5775
40°	5641	5775	5795
45°	5598	5680	5795
50°	5480	5660	5673
55°	5427	5592	5615
60°	5301	5485	5469
65°	5153	5327	5358
70°	4839	5076	4908
75°	4385	4588	4476
80°	3707	3812	3707
85°	2530	2681	2805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.2
10°-20°	485.0	9.2
20°-30°	737.7	14.1
30°-40°	901.1	17.2
40°-50°	946.9	18.0
50°-60°	869.8	16.6
60°-70°	673.2	12.8
70°-80°	377.5	7.2
80°-90°	88.6	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°	1391.0	26.5
0°-40°	2292.1	43.7
0°-60°	4108.8	78.3
0°-90°	5248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1777	1757	1775	1771	1764	169
15°	1718	1719	1715	1724	1720	484
25°	1588	1592	1599	1607	1616	734
35°	1420	1427	1446	1450	1446	890
45°	1210	1216	1228	1235	1252	931
55°	951	966	980	977	984	848
65°	666	674	688	688	692	656
75°	347	360	363	351	354	368
85°	67	69	71	72	75	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.4	1777.4	1777.4	1777.4	1777.4
2.5°	1782.2	1774.1	1773.3	1776.6	1779.0
5°	1776.6	1757.3	1774.9	1770.9	1764.5
7.5°	1769.3	1742.0	1761.3	1763.7	1763.7
10°	1754.9	1742.8	1762.1	1757.3	1754.1
12.5°	1739.6	1738.8	1745.2	1742.8	1739.6
15°	1717.9	1718.8	1714.7	1723.6	1720.4
17.5°	1681.8	1693.9	1690.7	1701.1	1701.1
20°	1661.0	1654.5	1663.4	1668.2	1662.6
22.5°	1632.9	1620.0	1636.9	1640.1	1632.9
25°	1587.9	1591.9	1599.1	1607.2	1616.0
27.5°	1553.4	1555.8	1567.0	1565.4	1573.4
30°	1517.3	1518.9	1534.1	1541.3	1528.5
32.5°	1465.9	1483.5	1496.4	1493.2	1492.4
35°	1420.1	1427.3	1445.8	1449.8	1445.8
37.5°	1374.4	1379.2	1397.6	1396.8	1399.2
40°	1320.6	1330.2	1351.9	1344.7	1356.7
42.5°	1266.0	1277.2	1286.1	1294.1	1294.9
45°	1209.8	1216.2	1227.5	1234.7	1252.3
47.5°	1146.4	1161.6	1172.9	1178.5	1167.2
50°	1076.5	1102.2	1111.9	1117.5	1114.3
52.5°	1012.3	1039.6	1047.6	1047.6	1050.0
55°	951.3	966.5	980.2	977.0	984.2
57.5°	882.3	899.1	907.9	912.0	915.2
60°	810.0	833.3	838.1	836.5	835.7
62.5°	735.3	756.2	765.9	759.4	765.0
65°	665.5	674.3	688.0	688.0	692.0
67.5°	591.6	601.3	610.1	608.5	602.1
70°	505.8	519.4	530.6	520.2	513.0
72.5°	430.3	441.5	443.1	435.1	435.9
75°	346.8	360.4	362.9	350.8	354.0
77.5°	268.1	282.6	285.0	272.1	272.1
80°	196.7	206.3	202.3	196.7	196.7
82.5°	127.6	134.1	130.1	133.3	130.1
85°	67.4	69.0	71.4	72.3	74.7
87.5°	22.5	24.9	24.1	21.7	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)