

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: P709590

Luminaire Tested: **14ARS-L3C3-HO-UNV-3500K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709590
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-3500K-MID
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

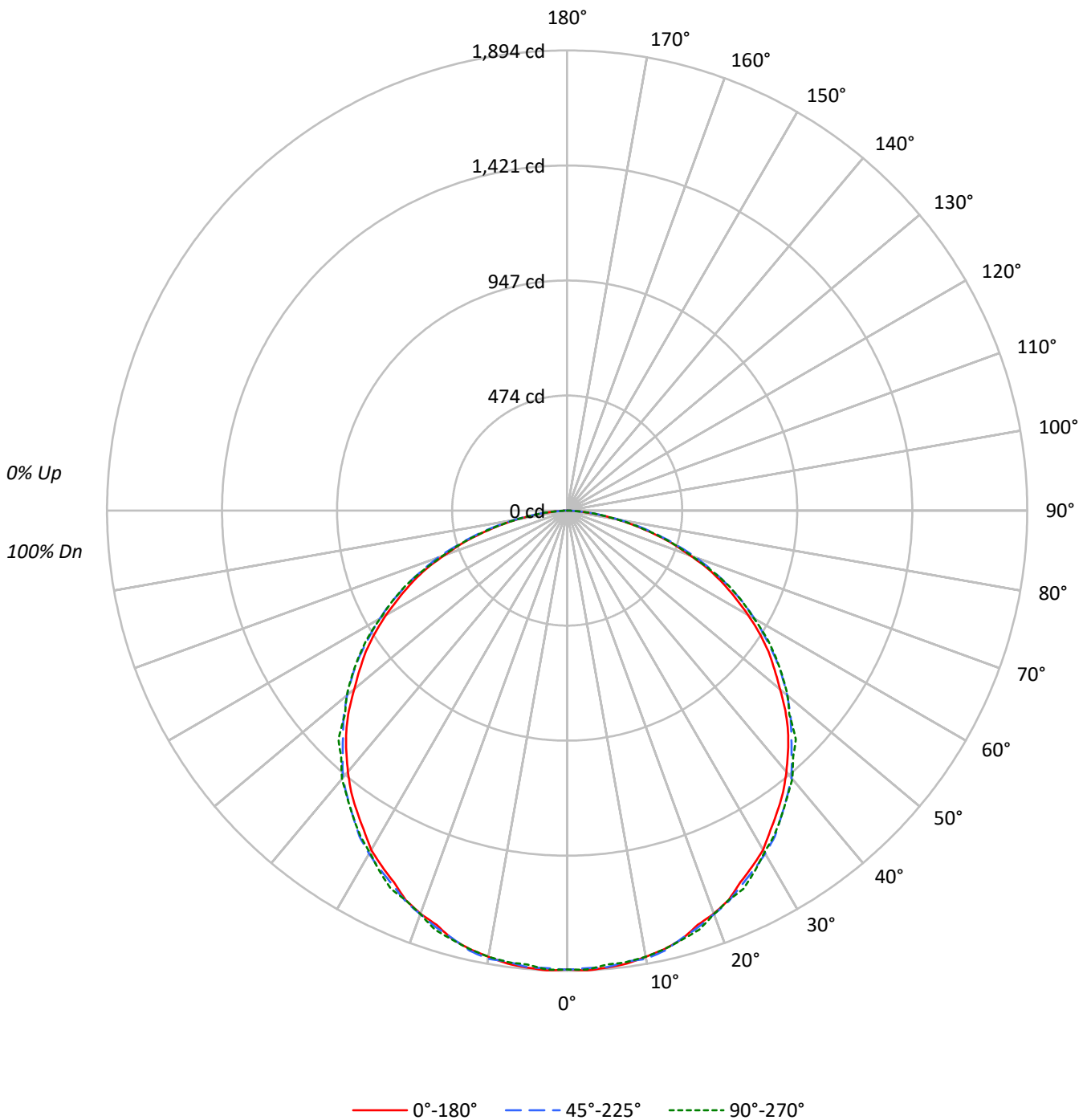
Lumens per Lamp: N/A
Luminaire Lumens: 5578.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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

TEST NUMBER: P709590

CATALOG NUMBER: 14ARS-L3C3-HO-UNV-3500K-MID

Luminous Intensity Polar Plot





TEST NUMBER: P709590

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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°	6182	6182	6182
5°	6203	6197	6160
10°	6197	6223	6195
15°	6186	6174	6194
20°	6147	6157	6153
25°	6093	6137	6201
30°	6093	6161	6138
35°	6029	6139	6139
40°	5996	6138	6160
45°	5951	6037	6160
50°	5825	6016	6029
55°	5768	5943	5968
60°	5634	5830	5813
65°	5477	5661	5695
70°	5143	5396	5216
75°	4660	4876	4757
80°	3938	4051	3938
85°	2692	2850	2981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	3.2
10°-20°	515.5	9.2
20°-30°	784.1	14.1
30°-40°	957.8	17.2
40°-50°	1006.4	18.0
50°-60°	924.5	16.6
60°-70°	715.5	12.8
70°-80°	401.2	7.2
80°-90°	94.1	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°	1478.5	26.5
0°-40°	2436.2	43.7
0°-60°	4367.1	78.3
0°-90°	5578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1888	1868	1887	1882	1876	180
15°	1826	1827	1823	1832	1828	514
25°	1688	1692	1700	1708	1718	780
35°	1509	1517	1537	1541	1537	946
45°	1286	1293	1305	1312	1331	989
55°	1011	1027	1042	1038	1046	901
65°	707	717	731	731	736	697
75°	369	383	386	373	376	391
85°	72	73	76	77	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1894.2	1885.7	1884.9	1888.3	1890.8
5°	1888.3	1867.8	1886.6	1882.3	1875.5
7.5°	1880.6	1851.6	1872.1	1874.6	1874.6
10°	1865.2	1852.4	1872.9	1867.8	1864.4
12.5°	1849.0	1848.2	1855.0	1852.4	1849.0
15°	1826.0	1826.8	1822.6	1831.9	1828.5
17.5°	1787.6	1800.4	1797.0	1808.1	1808.1
20°	1765.4	1758.6	1768.0	1773.1	1767.1
22.5°	1735.5	1721.9	1739.8	1743.2	1735.5
25°	1687.7	1692.0	1699.7	1708.2	1717.6
27.5°	1651.1	1653.6	1665.6	1663.9	1672.4
30°	1612.7	1614.4	1630.6	1638.3	1624.6
32.5°	1558.1	1576.8	1590.5	1587.1	1586.2
35°	1509.4	1517.1	1536.7	1541.0	1536.7
37.5°	1460.8	1465.9	1485.5	1484.7	1487.2
40°	1403.6	1413.9	1436.9	1429.2	1442.0
42.5°	1345.6	1357.5	1366.9	1375.5	1376.3
45°	1285.9	1292.7	1304.6	1312.3	1331.1
47.5°	1218.5	1234.7	1246.6	1252.6	1240.6
50°	1144.2	1171.5	1181.8	1187.7	1184.3
52.5°	1076.0	1105.0	1113.5	1113.5	1116.1
55°	1011.1	1027.3	1041.8	1038.4	1046.1
57.5°	937.7	955.7	965.0	969.3	972.7
60°	860.9	885.7	890.8	889.1	888.2
62.5°	781.6	803.8	814.0	807.2	813.2
65°	707.4	716.7	731.2	731.2	735.5
67.5°	628.9	639.1	648.5	646.8	639.9
70°	537.6	552.1	564.0	552.9	545.2
72.5°	457.3	469.3	471.0	462.5	463.3
75°	368.6	383.1	385.7	372.9	376.3
77.5°	285.0	300.3	302.9	289.3	289.3
80°	209.0	219.3	215.0	209.0	209.0
82.5°	135.7	142.5	138.2	141.6	138.2
85°	71.7	73.4	75.9	76.8	79.4
87.5°	23.9	26.5	25.6	23.0	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)