

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: P709593

Luminaire Tested: **14ARS-L3C3-HO-UNV-4000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709593
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-4000K-MID
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

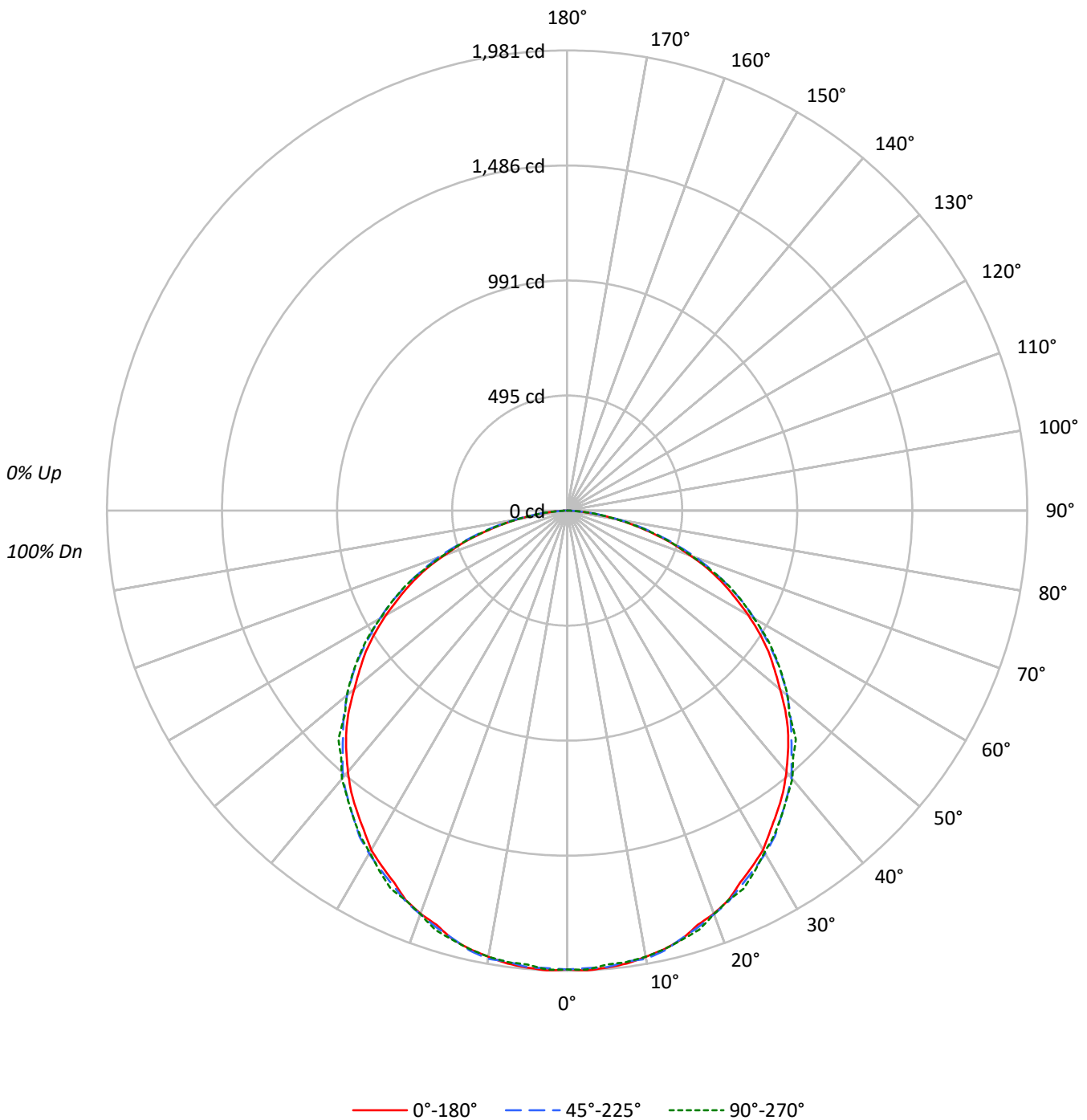
Lumens per Lamp: N/A
Luminaire Lumens: 5834.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 40.2
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°	6465	6465	6465
5°	6487	6481	6443
10°	6482	6509	6479
15°	6470	6458	6479
20°	6430	6439	6436
25°	6373	6418	6486
30°	6373	6444	6420
35°	6306	6420	6420
40°	6271	6419	6442
45°	6224	6314	6443
50°	6092	6292	6306
55°	6033	6216	6242
60°	5893	6097	6080
65°	5728	5922	5956
70°	5379	5644	5456
75°	4874	5100	4976
80°	4119	4238	4119
85°	2816	2981	3116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.2
10°-20°	539.2	9.2
20°-30°	820.1	14.1
30°-40°	1001.7	17.2
40°-50°	1052.6	18.0
50°-60°	966.9	16.6
60°-70°	748.4	12.8
70°-80°	419.6	7.2
80°-90°	98.5	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°	1546.3	26.5
0°-40°	2548.0	43.7
0°-60°	4567.5	78.3
0°-90°	5834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1975	1954	1973	1969	1962	188
15°	1910	1911	1906	1916	1912	538
25°	1765	1770	1778	1787	1796	816
35°	1579	1587	1607	1612	1607	989
45°	1345	1352	1364	1372	1392	1035
55°	1058	1074	1090	1086	1094	942
65°	740	750	765	765	769	729
75°	386	401	403	390	394	409
85°	75	77	79	80	83	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	1981.2	1972.2	1971.4	1974.9	1977.6
5°	1974.9	1953.5	1973.1	1968.7	1961.5
7.5°	1966.9	1936.6	1958.0	1960.6	1960.6
10°	1950.8	1937.4	1958.9	1953.5	1949.9
12.5°	1933.9	1933.0	1940.1	1937.4	1933.9
15°	1909.8	1910.7	1906.2	1916.0	1912.5
17.5°	1869.6	1883.0	1879.4	1891.0	1891.0
20°	1846.4	1839.3	1849.1	1854.4	1848.2
22.5°	1815.2	1800.9	1819.6	1823.2	1815.2
25°	1765.2	1769.7	1777.7	1786.6	1796.4
27.5°	1726.8	1729.5	1742.0	1740.2	1749.1
30°	1686.7	1688.5	1705.4	1713.4	1699.2
32.5°	1629.6	1649.2	1663.5	1659.9	1659.0
35°	1578.7	1586.7	1607.2	1611.7	1607.2
37.5°	1527.8	1533.2	1553.7	1552.8	1555.5
40°	1468.0	1478.7	1502.8	1494.8	1508.2
42.5°	1407.3	1419.8	1429.7	1438.6	1439.5
45°	1344.9	1352.0	1364.5	1372.5	1392.2
47.5°	1274.4	1291.3	1303.8	1310.1	1297.6
50°	1196.7	1225.3	1236.0	1242.2	1238.7
52.5°	1125.3	1155.7	1164.6	1164.6	1167.3
55°	1057.5	1074.5	1089.6	1086.1	1094.1
57.5°	980.8	999.5	1009.3	1013.8	1017.4
60°	900.5	926.3	931.7	929.9	929.0
62.5°	817.5	840.7	851.4	844.2	850.5
65°	739.8	749.6	764.8	764.8	769.3
67.5°	657.7	668.4	678.2	676.5	669.3
70°	562.2	577.4	589.9	578.3	570.3
72.5°	478.3	490.8	492.6	483.7	484.6
75°	385.5	400.7	403.4	390.0	393.6
77.5°	298.1	314.1	316.8	302.5	302.5
80°	218.6	229.4	224.9	218.6	218.6
82.5°	141.9	149.0	144.6	148.1	144.6
85°	75.0	76.7	79.4	80.3	83.0
87.5°	25.0	27.7	26.8	24.1	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)