

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: P709596

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709596
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-MID
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

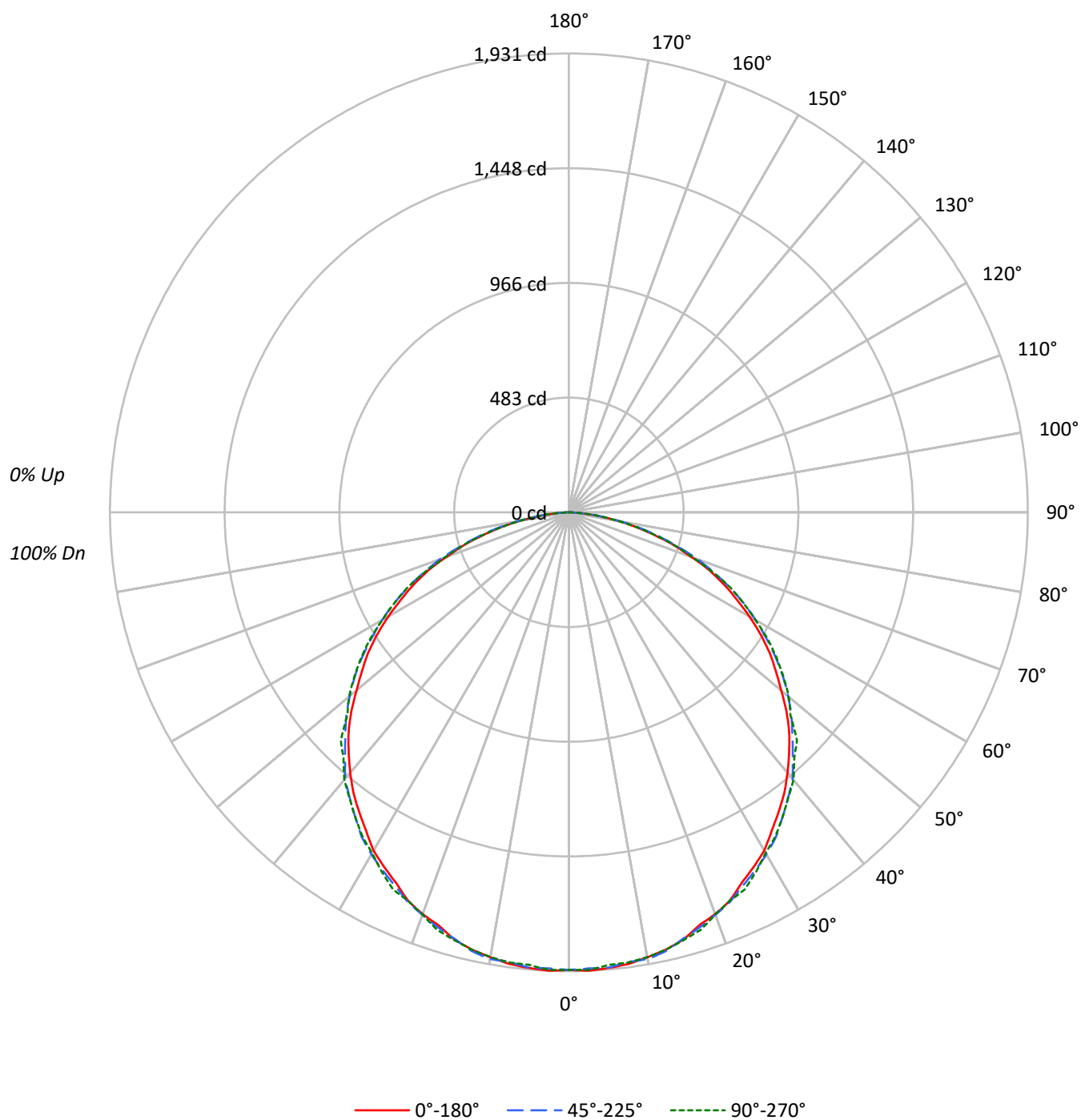
Lumens per Lamp: N/A
Luminaire Lumens: 5686.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	100	96	106	102	98	94		97	94	91			93	91	88			90
2	99	90	83	78	96	88	82	77		85	79	75			82	77	73			78
3	90	79	71	64	87	77	70	64		74	68	62			72	66	61			69
4	82	70	61	54	80	69	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	70	56	47	40	68	55	46	40		53	46	40			52	45	40			50
7	64	51	42	36	63	50	41	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	37	32		44	37	31			43	36	31			42
9	56	42	34	28	55	42	34	28		41	33	28			40	33	28			39
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6301	6301	6301
5°	6322	6317	6280
10°	6317	6344	6315
15°	6305	6294	6314
20°	6267	6276	6272
25°	6211	6256	6322
30°	6211	6280	6257
35°	6146	6258	6258
40°	6112	6257	6279
45°	6066	6154	6279
50°	5938	6132	6146
55°	5880	6059	6084
60°	5743	5943	5925
65°	5582	5771	5805
70°	5243	5500	5317
75°	4750	4970	4850
80°	4016	4131	4016
85°	2744	2906	3037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	3.2
10°-20°	525.5	9.2
20°-30°	799.3	14.1
30°-40°	976.3	17.2
40°-50°	1025.9	18.0
50°-60°	942.4	16.6
60°-70°	729.4	12.8
70°-80°	409.0	7.2
80°-90°	96.0	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°	1507.1	26.5
0°-40°	2483.4	43.7
0°-60°	4451.7	78.3
0°-90°	5686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1925	1904	1923	1919	1912	183
15°	1861	1862	1858	1867	1864	524
25°	1720	1725	1733	1741	1751	796
35°	1539	1546	1566	1571	1566	964
45°	1311	1318	1330	1338	1357	1008
55°	1031	1047	1062	1058	1066	918
65°	721	731	745	745	750	711
75°	376	390	393	380	384	399
85°	73	75	77	78	81	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.7	1925.7	1925.7	1925.7	1925.7
2.5°	1930.9	1922.2	1921.3	1924.8	1927.4
5°	1924.8	1903.9	1923.1	1918.7	1911.8
7.5°	1917.0	1887.4	1908.3	1910.9	1910.9
10°	1901.3	1888.3	1909.2	1903.9	1900.5
12.5°	1884.8	1883.9	1890.9	1888.3	1884.8
15°	1861.3	1862.2	1857.9	1867.4	1863.9
17.5°	1822.2	1835.2	1831.8	1843.1	1843.1
20°	1799.6	1792.6	1802.2	1807.4	1801.3
22.5°	1769.1	1755.2	1773.5	1777.0	1769.1
25°	1720.4	1724.8	1732.6	1741.3	1750.9
27.5°	1683.0	1685.6	1697.8	1696.1	1704.8
30°	1643.9	1645.6	1662.2	1670.0	1656.1
32.5°	1588.2	1607.4	1621.3	1617.8	1616.9
35°	1538.6	1546.5	1566.5	1570.8	1566.5
37.5°	1489.1	1494.3	1514.3	1513.4	1516.0
40°	1430.8	1441.2	1464.7	1456.9	1469.9
42.5°	1371.6	1383.8	1393.4	1402.1	1403.0
45°	1310.8	1317.7	1329.9	1337.7	1356.9
47.5°	1242.0	1258.6	1270.7	1276.8	1264.7
50°	1166.4	1194.2	1204.6	1210.7	1207.3
52.5°	1096.8	1126.4	1135.1	1135.1	1137.7
55°	1030.7	1047.2	1062.0	1058.5	1066.4
57.5°	955.9	974.2	983.7	988.1	991.5
60°	877.6	902.8	908.1	906.3	905.4
62.5°	796.7	819.3	829.8	822.8	828.9
65°	721.0	730.6	745.4	745.4	749.8
67.5°	641.0	651.5	661.0	659.3	652.3
70°	548.0	562.7	574.9	563.6	555.8
72.5°	466.2	478.4	480.1	471.4	472.3
75°	375.7	390.5	393.1	380.1	383.6
77.5°	290.5	306.2	308.8	294.9	294.9
80°	213.1	223.5	219.2	213.1	213.1
82.5°	138.3	145.3	140.9	144.4	140.9
85°	73.1	74.8	77.4	78.3	80.9
87.5°	24.4	27.0	26.1	23.5	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)