

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: P709588

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709588
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-HI
Description: ARS 1x4 Selectable High Output 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

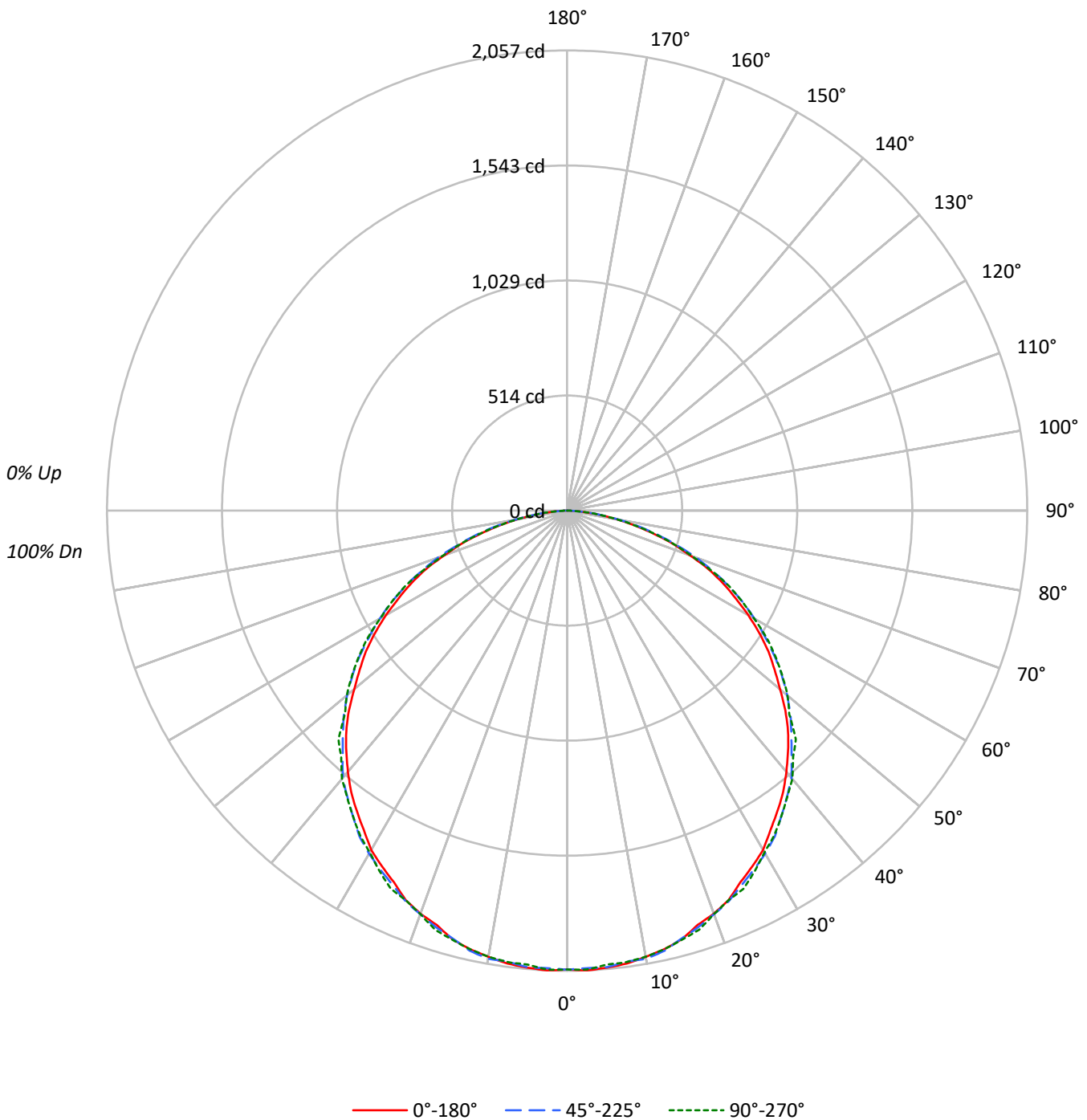
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6058.0 lumens
Efficiency: N/A
Efficacy: 130.6 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): 46.4
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°	6714	6714	6714
5°	6736	6730	6691
10°	6731	6759	6728
15°	6718	6705	6728
20°	6676	6686	6683
25°	6618	6665	6735
30°	6618	6691	6667
35°	6548	6667	6667
40°	6512	6666	6690
45°	6462	6557	6690
50°	6326	6534	6548
55°	6265	6455	6481
60°	6119	6332	6313
65°	5948	6149	6185
70°	5585	5860	5666
75°	5061	5296	5167
80°	4278	4400	4278
85°	2921	3097	3236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	3.2
10°-20°	559.9	9.2
20°-30°	851.6	14.1
30°-40°	1040.2	17.2
40°-50°	1093.0	18.0
50°-60°	1004.1	16.6
60°-70°	777.1	12.8
70°-80°	435.8	7.2
80°-90°	102.2	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°	1605.7	26.5
0°-40°	2645.8	43.7
0°-60°	4742.9	78.3
0°-90°	6058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2051	2028	2049	2044	2037	195
15°	1983	1984	1979	1990	1986	558
25°	1833	1838	1846	1855	1865	848
35°	1639	1648	1669	1674	1669	1027
45°	1396	1404	1417	1425	1446	1074
55°	1098	1116	1132	1128	1136	978
65°	768	778	794	794	799	757
75°	400	416	419	405	409	425
85°	78	80	82	83	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2051.7	2051.7	2051.7	2051.7	2051.7
2.5°	2057.2	2048.0	2047.0	2050.8	2053.5
5°	2050.8	2028.5	2048.9	2044.3	2036.9
7.5°	2042.4	2010.9	2033.1	2035.9	2035.9
10°	2025.7	2011.8	2034.1	2028.5	2024.8
12.5°	2008.1	2007.2	2014.6	2011.8	2008.1
15°	1983.1	1984.0	1979.4	1989.6	1985.9
17.5°	1941.4	1955.3	1951.6	1963.6	1963.6
20°	1917.3	1909.9	1920.1	1925.7	1919.2
22.5°	1884.9	1870.1	1889.5	1893.2	1884.9
25°	1833.0	1837.6	1846.0	1855.2	1865.4
27.5°	1793.1	1795.9	1808.9	1807.0	1816.3
30°	1751.4	1753.3	1770.9	1779.2	1764.4
32.5°	1692.1	1712.5	1727.3	1723.6	1722.7
35°	1639.3	1647.6	1669.0	1673.6	1669.0
37.5°	1586.5	1592.0	1613.4	1612.4	1615.2
40°	1524.4	1535.5	1560.5	1552.2	1566.1
42.5°	1461.4	1474.4	1484.5	1493.8	1494.7
45°	1396.5	1403.9	1416.9	1425.2	1445.6
47.5°	1323.3	1340.9	1353.9	1360.4	1347.4
50°	1242.7	1272.3	1283.5	1289.9	1286.2
52.5°	1168.5	1200.1	1209.3	1209.3	1212.1
55°	1098.1	1115.7	1131.5	1127.8	1136.1
57.5°	1018.4	1037.9	1048.1	1052.7	1056.4
60°	935.0	961.9	967.5	965.6	964.7
62.5°	848.8	872.9	884.1	876.6	883.1
65°	768.2	778.4	794.2	794.2	798.8
67.5°	683.0	694.1	704.3	702.4	695.0
70°	583.8	599.6	612.5	600.5	592.2
72.5°	496.7	509.7	511.5	502.3	503.2
75°	400.3	416.1	418.9	405.0	408.7
77.5°	309.5	326.2	329.0	314.1	314.1
80°	227.0	238.2	233.5	227.0	227.0
82.5°	147.3	154.8	150.1	153.8	150.1
85°	77.8	79.7	82.5	83.4	86.2
87.5°	25.9	28.7	27.8	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)