

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: P128117

Luminaire Tested: **14ALNG-LD4-23-UNV-L850-CD1-U**

Test Date: 08/28/14



**Test Information**

Test Method: LM-79-08  
Report Number: P128117  
Test Lab: INNOVATION CENTER-P2  
Test Date: 08/28/14  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ALNG-LD4-23-UNV-L850-CD1-U  
Description: METALUX; ARCLINE 1X4 LED  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24769)  
Light Source: -  
Ballast/Driver: -

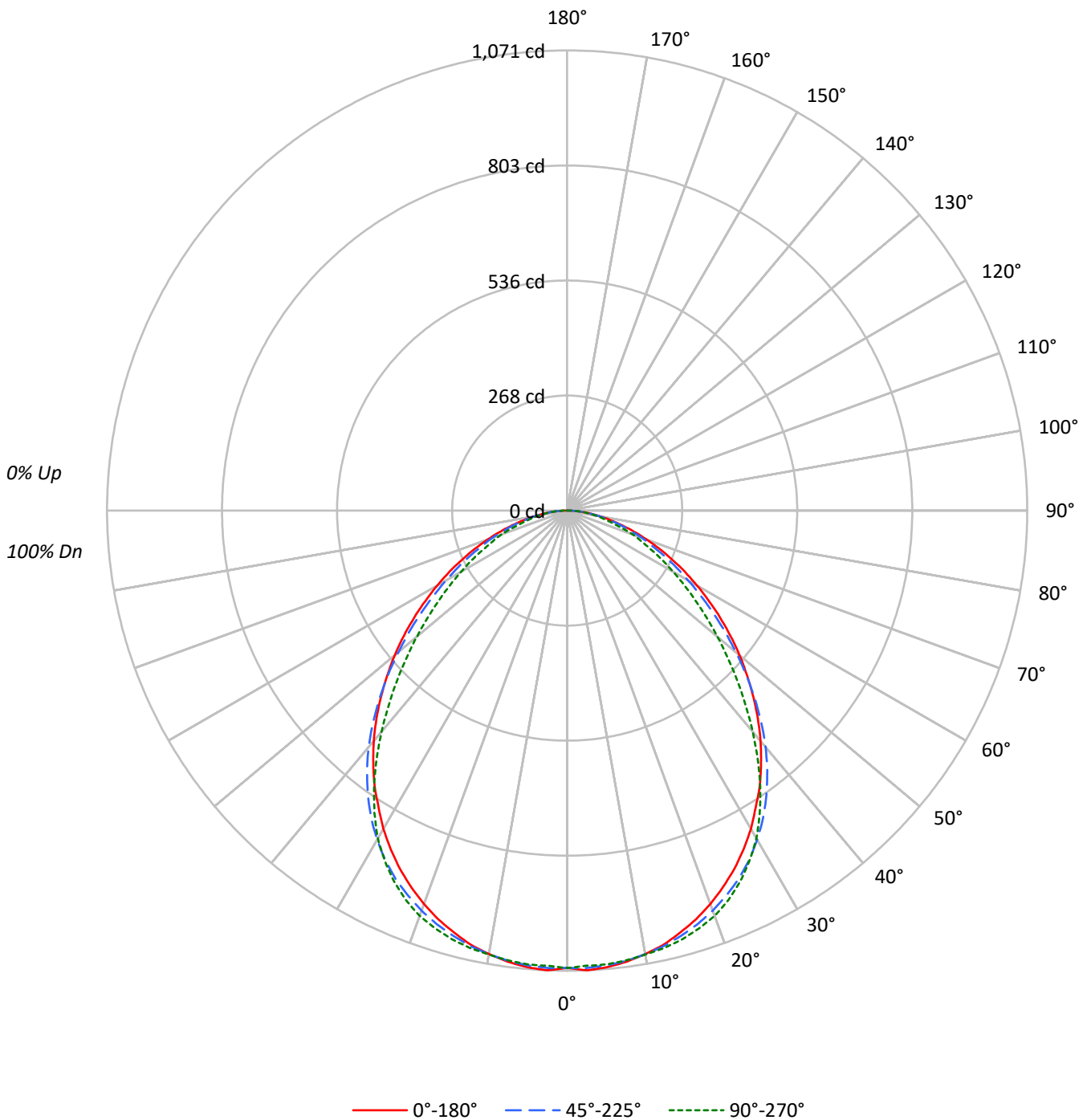
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2560.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.4  
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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3191	3191	3191
5°	3210	3197	3191
10°	3191	3191	3194
15°	3156	3180	3207
20°	3109	3161	3203
25°	3044	3127	3152
30°	2961	3062	3051
35°	2861	2960	2868
40°	2741	2813	2630
45°	2597	2615	2376
50°	2442	2391	2129
55°	2272	2164	1904
60°	2093	1950	1709
65°	1907	1761	1530
70°	1720	1616	1425
75°	1531	1456	1230
80°	1347	1329	1160
85°	1194	1231	1194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	3.9
10°-20°	288.5	11.3
20°-30°	431.5	16.9
30°-40°	494.6	19.3
40°-50°	462.9	18.1
50°-60°	365.2	14.3
60°-70°	245.7	9.6
70°-80°	131.7	5.1
80°-90°	39.7	1.6
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°	820.7	32.1
0°-40°	1315.3	51.4
0°-60°	2143.4	83.7
0°-90°	2560.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1057	1062	1060	1060	101
15°	1017	1011	1024	1030	1033	287
25°	920	921	945	951	953	423
35°	782	790	809	790	784	488
45°	612	622	617	576	560	472
55°	435	438	414	378	364	389
65°	269	268	248	226	216	268
75°	132	134	126	112	106	141
85°	35	39	36	35	35	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1071.0	1060.2	1065.6	1063.4	1060.2
5°	1066.7	1056.9	1062.3	1060.2	1060.2
7.5°	1059.1	1049.3	1056.9	1055.8	1055.8
10°	1048.2	1039.6	1048.2	1048.2	1049.3
12.5°	1035.2	1027.6	1038.5	1040.6	1042.8
15°	1016.8	1011.4	1024.4	1029.8	1033.1
17.5°	997.3	992.9	1009.2	1015.7	1020.0
20°	974.5	971.3	990.8	998.4	1003.8
22.5°	948.5	947.4	969.1	976.7	981.0
25°	920.3	921.4	945.2	950.7	952.8
27.5°	888.9	892.1	917.1	919.2	919.2
30°	855.3	860.7	884.5	882.4	881.3
32.5°	817.3	827.1	848.8	837.9	834.7
35°	781.6	790.2	808.7	790.2	783.7
37.5°	741.5	751.2	765.3	740.4	728.4
40°	700.3	710.0	718.7	686.2	672.1
42.5°	656.9	666.7	668.8	632.0	614.6
45°	612.5	622.2	616.8	575.6	560.4
47.5°	568.0	575.6	564.8	522.5	506.2
50°	523.6	530.1	512.7	471.5	456.4
52.5°	479.1	483.5	462.9	421.7	408.7
55°	434.7	437.9	414.1	378.3	364.2
57.5°	391.3	392.4	368.6	335.0	323.0
60°	349.0	349.0	325.2	294.8	285.1
62.5°	308.9	307.9	286.2	259.1	250.4
65°	268.8	267.7	248.2	225.5	215.7
67.5°	232.0	230.9	213.5	194.0	187.5
70°	196.2	196.2	184.3	173.4	162.6
72.5°	162.6	164.8	152.8	137.7	131.2
75°	132.2	134.4	125.7	111.7	106.2
77.5°	104.1	106.2	98.6	88.9	85.6
80°	78.0	81.3	77.0	68.3	67.2
82.5°	55.3	58.5	55.3	50.9	50.9
85°	34.7	39.0	35.8	34.7	34.7
87.5°	16.3	18.4	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)