

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: P166483

Luminaire Tested: **22ALNG-LD4-40-UNV-L840-CD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P166483  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD4-40-UNV-L840-CD1  
Description: METALUX ARCLINE 2X2 LED FIXTURE  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)  
Light Source: -  
Ballast/Driver: -

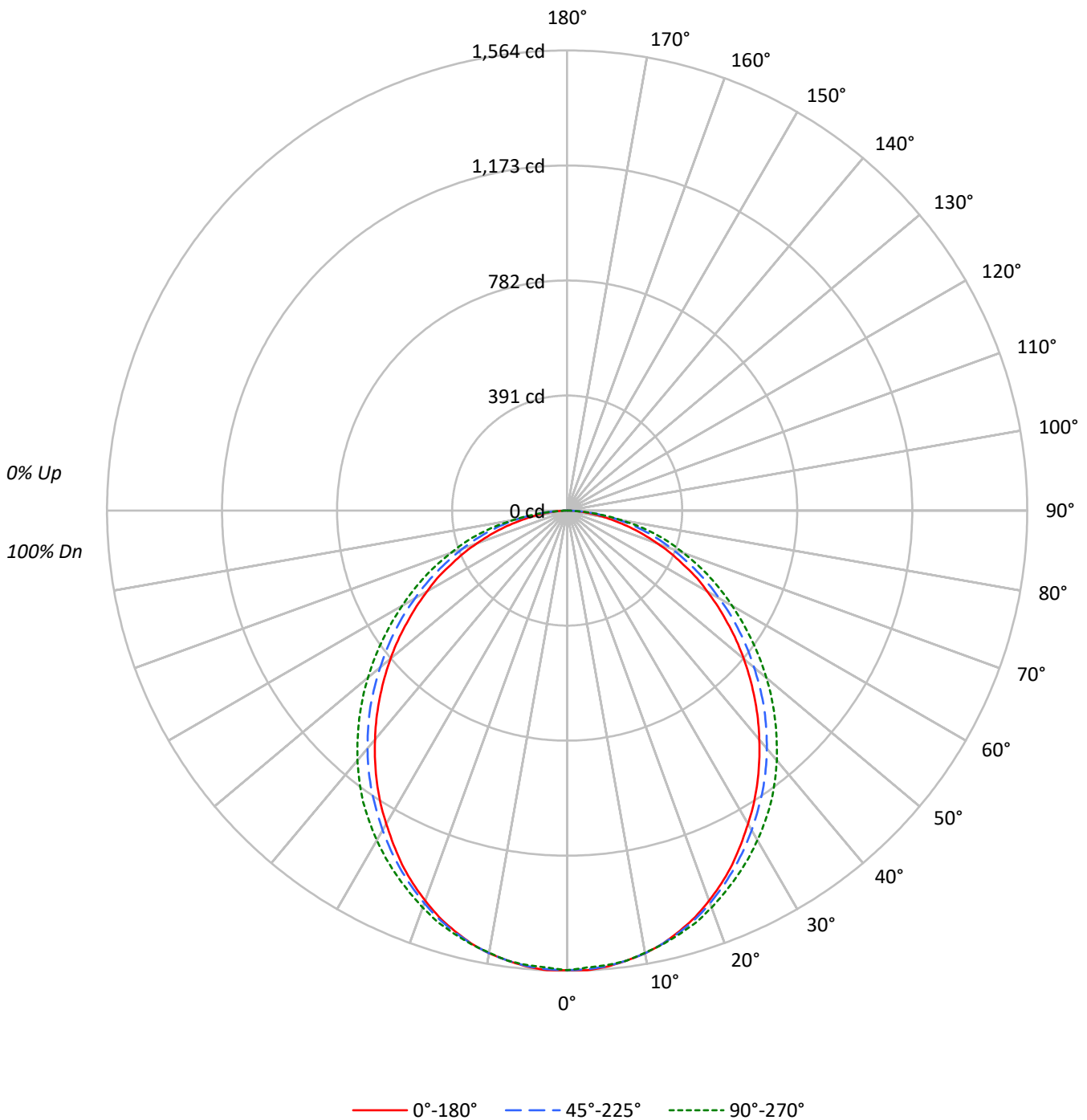
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4125.8 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33		44	38	33		43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	4577	4577	4577
5°	4577	4572	4561
10°	4546	4546	4540
15°	4486	4497	4515
20°	4399	4429	4476
25°	4292	4341	4427
30°	4160	4243	4377
35°	4033	4148	4324
40°	3886	4038	4241
45°	3733	3921	4140
50°	3573	3780	4029
55°	3396	3647	3907
60°	3221	3498	3797
65°	3025	3365	3706
70°	2799	3236	3592
75°	2501	3121	3529
80°	2134	2963	3155
85°	1715	2414	2350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	3.6
10°-20°	418.2	10.1
20°-30°	619.6	15.0
30°-40°	727.4	17.6
40°-50°	730.4	17.7
50°-60°	638.6	15.5
60°-70°	480.1	11.6
70°-80°	285.6	6.9
80°-90°	78.3	1.9
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°	1185.3	28.7
0°-40°	1912.8	46.4
0°-60°	3281.8	79.5
0°-90°	4125.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1556	1556	1554	1552	1551	148
15°	1479	1481	1483	1488	1488	417
25°	1328	1330	1343	1362	1369	611
35°	1128	1135	1160	1194	1209	705
45°	901	912	946	982	999	695
55°	665	678	714	748	765	596
65°	436	450	485	516	534	434
75°	221	240	276	300	312	235
85°	51	62	72	72	70	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1562.0	1562.0	1562.0	1562.0	1562.0
2.5°	1563.9	1562.0	1560.1	1556.3	1554.4
5°	1556.3	1556.3	1554.4	1552.5	1550.6
7.5°	1543.1	1544.9	1543.1	1543.1	1543.1
10°	1527.9	1529.8	1527.9	1527.9	1526.0
12.5°	1507.2	1507.2	1507.2	1509.1	1509.1
15°	1478.8	1480.7	1482.6	1488.3	1488.3
17.5°	1448.6	1448.6	1454.3	1463.8	1465.7
20°	1410.9	1412.8	1420.3	1431.6	1435.4
22.5°	1371.2	1373.1	1382.5	1397.6	1403.3
25°	1327.7	1329.6	1342.8	1361.8	1369.3
27.5°	1278.6	1282.4	1299.4	1324.0	1333.4
30°	1229.6	1235.2	1254.1	1282.4	1293.7
32.5°	1180.5	1186.1	1206.9	1238.9	1252.2
35°	1127.6	1135.1	1159.7	1193.6	1208.8
37.5°	1072.8	1080.4	1108.7	1144.5	1159.7
40°	1016.1	1025.6	1055.8	1091.6	1108.7
42.5°	959.4	968.9	1001.0	1036.8	1053.9
45°	900.9	912.2	946.2	982.2	999.1
47.5°	842.4	853.7	887.7	923.6	942.4
50°	783.8	795.2	829.2	865.0	883.9
52.5°	725.3	736.6	772.5	806.4	825.4
55°	664.8	678.0	713.9	748.0	764.9
57.5°	608.1	619.5	657.2	689.4	706.3
60°	549.6	562.8	596.9	628.9	647.9
62.5°	498.6	504.3	542.1	572.3	591.2
65°	436.3	449.5	485.4	515.6	534.5
67.5°	383.4	394.8	430.6	462.7	477.8
70°	326.7	341.9	377.7	406.1	419.3
72.5°	273.8	289.0	326.7	355.1	368.3
75°	220.9	239.9	275.7	300.3	311.7
77.5°	171.8	192.6	224.7	247.4	253.1
80°	126.5	145.4	175.6	185.1	187.0
82.5°	86.9	103.9	122.7	126.5	126.5
85°	51.0	62.4	71.8	71.8	69.9
87.5°	22.7	26.4	24.5	22.7	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)