

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: P166468

Luminaire Tested: **22ALNG-LD4-25-UNV-L830-CD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P166468  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD4-25-UNV-L830-CD1  
Description: METALUX ARCLINE 2X2 LED FIXTURE  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)  
Light Source: -  
Ballast/Driver: -

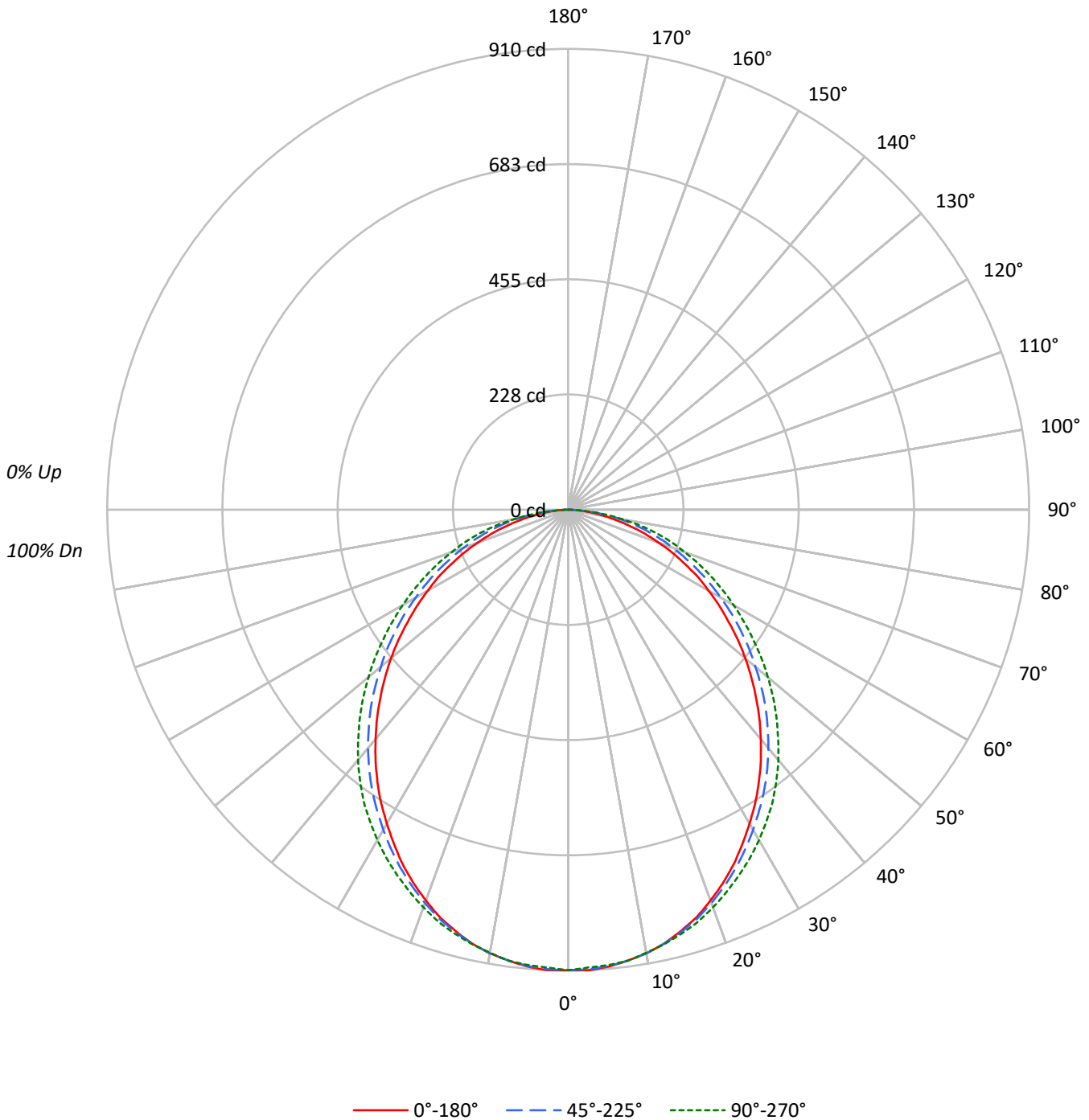
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2401.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 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): 24.7  
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°	2664	2664	2664
5°	2665	2662	2655
10°	2646	2646	2643
15°	2611	2618	2628
20°	2561	2578	2605
25°	2499	2527	2577
30°	2421	2470	2548
35°	2348	2414	2517
40°	2262	2351	2469
45°	2173	2282	2410
50°	2080	2200	2345
55°	1977	2123	2275
60°	1875	2036	2210
65°	1761	1959	2157
70°	1629	1884	2091
75°	1457	1817	2055
80°	1242	1724	1836
85°	998	1405	1368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.6
10°-20°	243.4	10.1
20°-30°	360.7	15.0
30°-40°	423.4	17.6
40°-50°	425.2	17.7
50°-60°	371.7	15.5
60°-70°	279.5	11.6
70°-80°	166.3	6.9
80°-90°	45.6	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°	690.0	28.7
0°-40°	1113.5	46.4
0°-60°	1910.4	79.5
0°-90°	2401.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	906	906	905	904	903	86
15°	861	862	863	866	866	243
25°	773	774	782	793	797	355
35°	656	661	675	695	704	410
45°	524	531	551	572	582	405
55°	387	395	416	435	445	347
65°	254	262	283	300	311	253
75°	129	140	160	175	182	137
85°	30	36	42	42	41	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.3	909.3	909.3	909.3	909.3
2.5°	910.4	909.3	908.2	906.0	904.9
5°	906.0	906.0	904.9	903.8	902.7
7.5°	898.3	899.4	898.3	898.3	898.3
10°	889.5	890.6	889.5	889.5	888.4
12.5°	877.3	877.3	877.3	878.4	878.4
15°	860.9	862.0	863.1	866.4	866.4
17.5°	843.3	843.3	846.6	852.1	853.2
20°	821.3	822.4	826.8	833.4	835.6
22.5°	798.2	799.3	804.8	813.6	816.9
25°	772.9	774.0	781.7	792.8	797.1
27.5°	744.4	746.6	756.4	770.7	776.2
30°	715.7	719.0	730.0	746.6	753.2
32.5°	687.2	690.5	702.6	721.2	728.9
35°	656.4	660.8	675.0	694.9	703.7
37.5°	624.5	628.9	645.4	666.3	675.0
40°	591.5	597.0	614.6	635.5	645.4
42.5°	558.5	564.0	582.8	603.6	613.5
45°	524.4	531.1	550.8	571.7	581.7
47.5°	490.4	497.0	516.7	537.7	548.7
50°	456.3	462.9	482.7	503.6	514.5
52.5°	422.2	428.8	449.7	469.4	480.5
55°	387.0	394.7	415.6	435.4	445.3
57.5°	354.0	360.6	382.7	401.3	411.2
60°	319.9	327.6	347.4	366.1	377.1
62.5°	290.3	293.6	315.5	333.2	344.2
65°	254.0	261.7	282.6	300.2	311.1
67.5°	223.2	229.8	250.7	269.3	278.2
70°	190.2	199.0	219.9	236.4	244.1
72.5°	159.4	168.2	190.2	206.7	214.4
75°	128.7	139.7	160.5	174.8	181.5
77.5°	100.1	112.1	130.9	144.0	147.3
80°	73.6	84.7	102.2	107.7	108.8
82.5°	50.6	60.5	71.4	73.6	73.6
85°	29.7	36.3	41.8	41.8	40.7
87.5°	13.2	15.4	14.3	13.2	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)