

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: P166470

Luminaire Tested: **22ALNG-LD4-35-UNV-L830-CD1**

Issue Date: 3/3/2020



**Test Information**

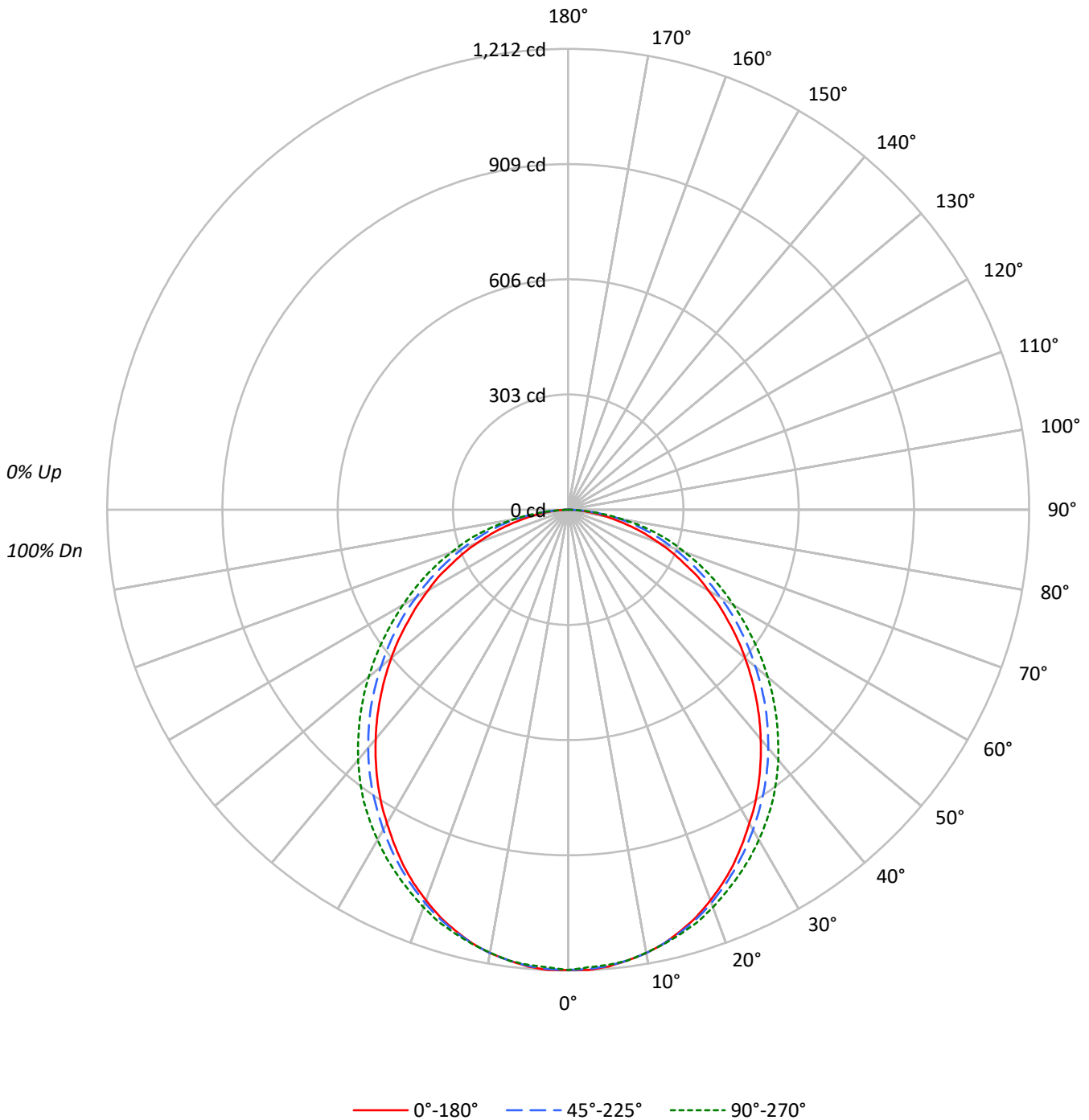
Test Method: LM-79-08  
Report Number: P166470  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD4-35-UNV-L830-CD1  
Description: METALUX ARCLINE 2X2 LED FIXTURE  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3197.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 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): 34.5  
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°	3547	3547	3547
5°	3547	3543	3534
10°	3523	3523	3519
15°	3476	3485	3499
20°	3409	3432	3469
25°	3327	3365	3431
30°	3224	3288	3392
35°	3126	3215	3351
40°	3012	3130	3286
45°	2893	3039	3208
50°	2769	2929	3122
55°	2632	2826	3028
60°	2496	2710	2942
65°	2344	2608	2872
70°	2169	2508	2783
75°	1939	2419	2734
80°	1655	2296	2445
85°	1328	1869	1822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	3.6
10°-20°	324.1	10.1
20°-30°	480.2	15.0
30°-40°	563.7	17.6
40°-50°	566.1	17.7
50°-60°	494.9	15.5
60°-70°	372.0	11.6
70°-80°	221.4	6.9
80°-90°	60.7	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°	918.6	28.7
0°-40°	1482.3	46.4
0°-60°	2543.3	79.5
0°-90°	3197.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1206	1206	1205	1203	1202	114
15°	1146	1148	1149	1153	1153	323
25°	1029	1030	1041	1055	1061	473
35°	874	880	899	925	937	546
45°	698	707	733	761	774	539
55°	515	526	553	580	593	462
65°	338	348	376	400	414	337
75°	171	186	214	233	242	183
85°	40	48	56	56	54	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1210.5	1210.5	1210.5	1210.5	1210.5
2.5°	1211.9	1210.5	1209.0	1206.1	1204.6
5°	1206.1	1206.1	1204.6	1203.2	1201.7
7.5°	1195.8	1197.3	1195.8	1195.8	1195.8
10°	1184.1	1185.6	1184.1	1184.1	1182.7
12.5°	1168.0	1168.0	1168.0	1169.5	1169.5
15°	1146.0	1147.5	1149.0	1153.4	1153.4
17.5°	1122.6	1122.6	1127.0	1134.4	1135.8
20°	1093.3	1094.8	1100.7	1109.5	1112.4
22.5°	1062.7	1064.1	1071.4	1083.1	1087.5
25°	1029.0	1030.4	1040.7	1055.3	1061.2
27.5°	990.9	993.9	1007.0	1026.0	1033.4
30°	952.8	957.2	971.8	993.9	1002.6
32.5°	914.8	919.2	935.3	960.2	970.5
35°	873.9	879.6	898.7	925.0	936.8
37.5°	831.3	837.2	859.2	887.0	898.7
40°	787.4	794.8	818.2	846.0	859.2
42.5°	743.5	750.9	775.8	803.6	816.7
45°	698.2	707.0	733.3	761.1	774.3
47.5°	652.8	661.5	687.9	715.7	730.4
50°	607.5	616.2	642.5	670.4	685.0
52.5°	562.1	570.8	598.6	625.0	639.6
55°	515.3	525.5	553.3	579.6	592.8
57.5°	471.3	480.1	509.4	534.3	547.4
60°	425.9	436.2	462.5	487.4	502.0
62.5°	386.4	390.8	420.0	443.5	458.1
65°	338.1	348.3	376.1	399.6	414.2
67.5°	297.2	305.9	333.7	358.6	370.4
70°	253.2	264.9	292.8	314.7	324.9
72.5°	212.2	224.0	253.2	275.2	285.4
75°	171.3	185.9	213.7	232.7	241.5
77.5°	133.2	149.3	174.2	191.7	196.1
80°	98.1	112.7	136.1	143.4	144.9
82.5°	67.3	80.5	95.1	98.1	98.1
85°	39.5	48.3	55.6	55.6	54.2
87.5°	17.5	20.5	19.0	17.5	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)