

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: P166481

Luminaire Tested: **22ALNG-LD4-31-UNV-L840-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166481
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-31-UNV-L840-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

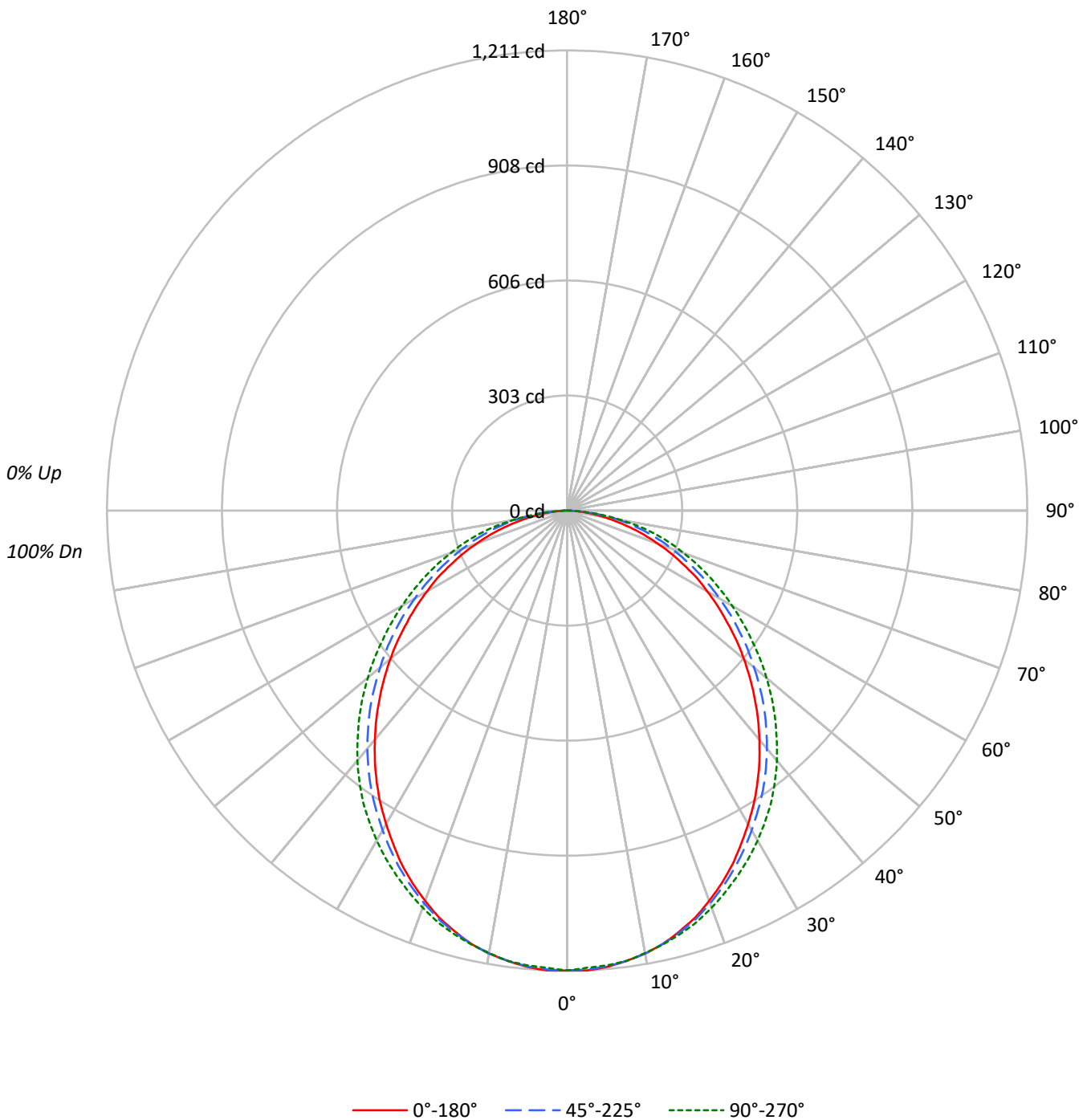
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.2 lumens
Efficiency: N/A
Efficacy: 109.5 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): 29.2
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°	3546	3546	3546
5°	3546	3542	3533
10°	3522	3522	3517
15°	3475	3484	3498
20°	3408	3431	3467
25°	3325	3363	3430
30°	3223	3287	3391
35°	3124	3214	3349
40°	3011	3128	3285
45°	2892	3037	3207
50°	2768	2928	3121
55°	2631	2825	3027
60°	2495	2709	2941
65°	2343	2607	2871
70°	2168	2507	2783
75°	1938	2419	2733
80°	1654	2295	2445
85°	1328	1869	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.6
10°-20°	324.0	10.1
20°-30°	480.0	15.0
30°-40°	563.5	17.6
40°-50°	565.9	17.7
50°-60°	494.7	15.5
60°-70°	371.9	11.6
70°-80°	221.3	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°	918.3	28.7
0°-40°	1481.8	46.4
0°-60°	2542.3	79.5
0°-90°	3196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1206	1206	1204	1203	1201	114
15°	1146	1147	1148	1153	1153	323
25°	1029	1030	1040	1055	1061	473
35°	874	879	898	925	936	546
45°	698	707	733	761	774	538
55°	515	525	553	579	592	462
65°	338	348	376	399	414	337
75°	171	186	214	233	241	182
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°	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1211.4	1210.1	1208.6	1205.6	1204.2
5°	1205.6	1205.6	1204.2	1202.7	1201.2
7.5°	1195.4	1196.9	1195.4	1195.4	1195.4
10°	1183.7	1185.1	1183.7	1183.7	1182.2
12.5°	1167.6	1167.6	1167.6	1169.1	1169.1
15°	1145.7	1147.1	1148.5	1153.0	1153.0
17.5°	1122.2	1122.2	1126.6	1133.9	1135.4
20°	1093.0	1094.4	1100.3	1109.0	1112.0
22.5°	1062.2	1063.7	1071.0	1082.7	1087.1
25°	1028.6	1030.0	1040.3	1055.0	1060.8
27.5°	990.5	993.4	1006.6	1025.7	1032.9
30°	952.5	956.9	971.5	993.4	1002.3
32.5°	914.4	918.8	935.0	959.8	970.0
35°	873.5	879.3	898.4	924.7	936.4
37.5°	831.1	836.9	858.9	886.7	898.4
40°	787.1	794.5	817.9	845.7	858.9
42.5°	743.3	750.6	775.4	803.3	816.4
45°	697.9	706.6	733.0	760.8	774.0
47.5°	652.6	661.3	687.7	715.5	730.1
50°	607.2	615.9	642.3	670.1	684.7
52.5°	561.9	570.6	598.4	624.8	639.4
55°	515.0	525.2	553.0	579.4	592.5
57.5°	471.2	479.9	509.2	534.1	547.2
60°	425.8	436.0	462.3	487.2	501.8
62.5°	386.2	390.7	420.0	443.4	458.0
65°	338.0	348.2	376.0	399.4	414.1
67.5°	297.0	305.8	333.6	358.4	370.1
70°	253.1	264.9	292.6	314.6	324.8
72.5°	212.2	223.9	253.1	275.1	285.3
75°	171.2	185.9	213.7	232.6	241.4
77.5°	133.2	149.2	174.2	191.6	196.1
80°	98.0	112.6	136.0	143.4	144.9
82.5°	67.3	80.5	95.1	98.0	98.0
85°	39.5	48.3	55.6	55.6	54.2
87.5°	17.6	20.4	19.1	17.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)