

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: P166472

Luminaire Tested: **22ALNG-LD4-44-UNV-L830-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166472
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-44-UNV-L830-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

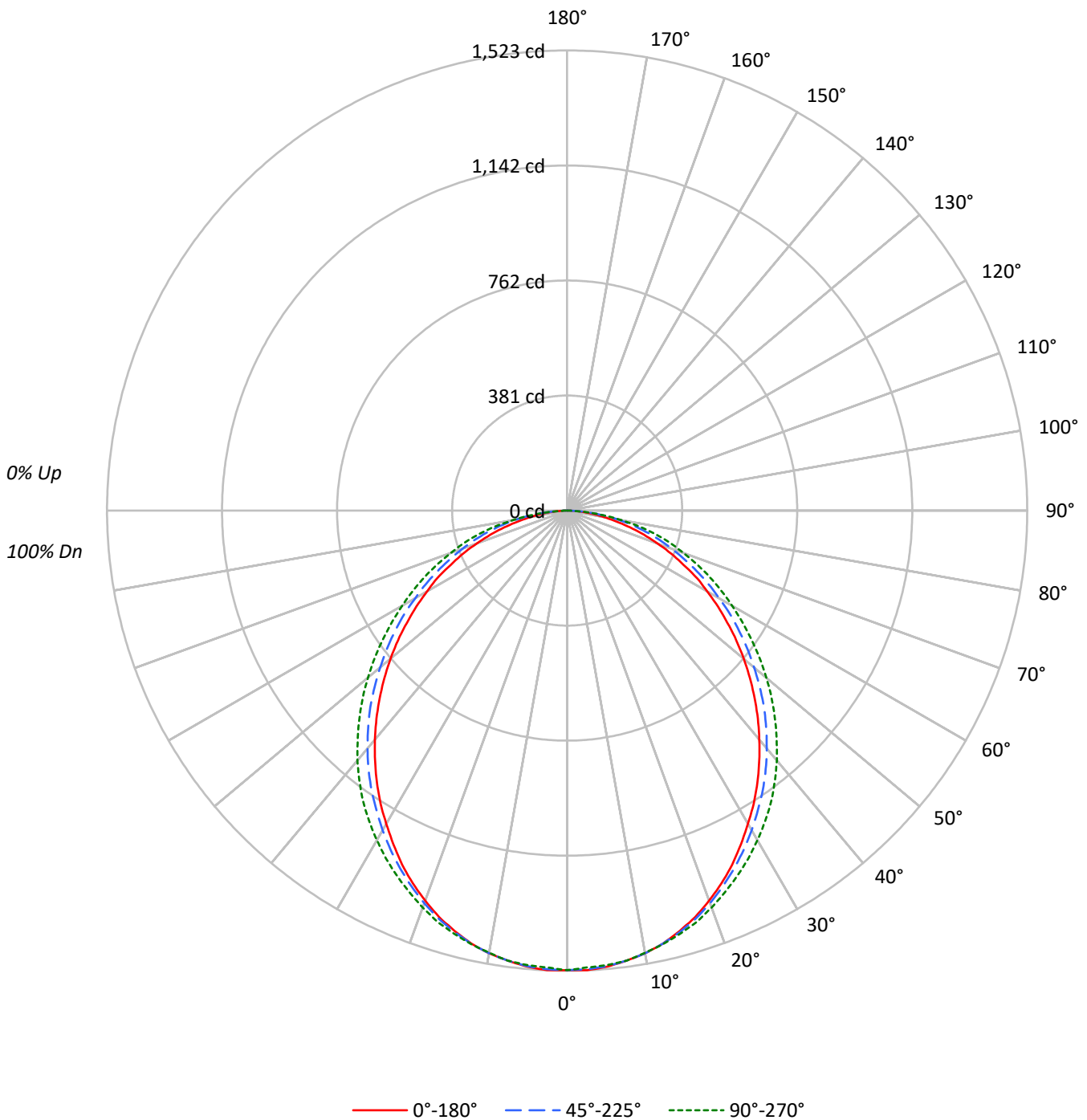
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4017.5 lumens
Efficiency: N/A
Efficacy: 86.6 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): 46.4
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	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°	4456	4456	4456
5°	4457	4452	4441
10°	4427	4427	4421
15°	4368	4379	4396
20°	4284	4312	4358
25°	4180	4227	4311
30°	4051	4132	4262
35°	3927	4039	4210
40°	3785	3932	4129
45°	3635	3818	4031
50°	3479	3680	3923
55°	3307	3551	3805
60°	3136	3406	3697
65°	2945	3277	3609
70°	2726	3151	3498
75°	2436	3040	3435
80°	2079	2887	3073
85°	1671	2350	2286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.6
10°-20°	407.2	10.1
20°-30°	603.4	15.0
30°-40°	708.3	17.6
40°-50°	711.3	17.7
50°-60°	621.8	15.5
60°-70°	467.5	11.6
70°-80°	278.1	6.9
80°-90°	76.3	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°	1154.2	28.7
0°-40°	1862.5	46.4
0°-60°	3195.6	79.5
0°-90°	4017.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1515	1515	1514	1512	1510	144
15°	1440	1442	1444	1449	1449	406
25°	1293	1295	1308	1326	1333	595
35°	1098	1105	1129	1162	1177	686
45°	877	888	921	956	973	677
55°	647	660	695	728	745	580
65°	425	438	473	502	520	423
75°	215	234	268	292	303	229
85°	50	61	70	70	68	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1522.7	1520.9	1519.1	1515.4	1513.5
5°	1515.4	1515.4	1513.5	1511.7	1509.9
7.5°	1502.5	1504.4	1502.5	1502.5	1502.5
10°	1487.8	1489.7	1487.8	1487.8	1486.0
12.5°	1467.6	1467.6	1467.6	1469.5	1469.5
15°	1440.0	1441.8	1443.7	1449.2	1449.2
17.5°	1410.6	1410.6	1416.1	1425.3	1427.1
20°	1373.8	1375.6	1383.0	1394.0	1397.7
22.5°	1335.2	1337.0	1346.2	1360.9	1366.4
25°	1292.9	1294.7	1307.6	1325.9	1333.4
27.5°	1245.0	1248.7	1265.3	1289.2	1298.4
30°	1197.3	1202.8	1221.2	1248.7	1259.7
32.5°	1149.4	1154.9	1175.1	1206.5	1219.3
35°	1097.9	1105.3	1129.2	1162.3	1177.0
37.5°	1044.6	1051.9	1079.6	1114.4	1129.2
40°	989.5	998.7	1028.0	1063.0	1079.6
42.5°	934.3	943.5	974.7	1009.7	1026.2
45°	877.3	888.3	921.4	956.3	972.8
47.5°	820.2	831.2	864.4	899.3	917.7
50°	763.2	774.2	807.4	842.3	860.7
52.5°	706.2	717.3	752.2	785.3	803.7
55°	647.4	660.3	695.2	728.3	744.8
57.5°	592.2	603.2	640.0	671.3	687.8
60°	535.2	548.0	581.2	612.4	630.8
62.5°	485.5	491.0	527.8	557.2	575.6
65°	424.8	437.7	472.6	502.0	520.5
67.5°	373.3	384.4	419.3	450.6	465.3
70°	318.2	332.9	367.8	395.4	408.3
72.5°	266.7	281.4	318.2	345.7	358.6
75°	215.2	233.5	268.5	292.4	303.4
77.5°	167.3	187.6	218.8	241.0	246.5
80°	123.2	141.6	171.1	180.3	182.1
82.5°	84.6	101.1	119.6	123.2	123.2
85°	49.7	60.7	69.9	69.9	68.0
87.5°	22.0	25.7	23.9	22.0	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)