

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: P128125

Luminaire Tested: **14ALNG-LD4-31-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128125
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-31-UNV-L830-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24767)
Light Source: -
Ballast/Driver: -

Summary

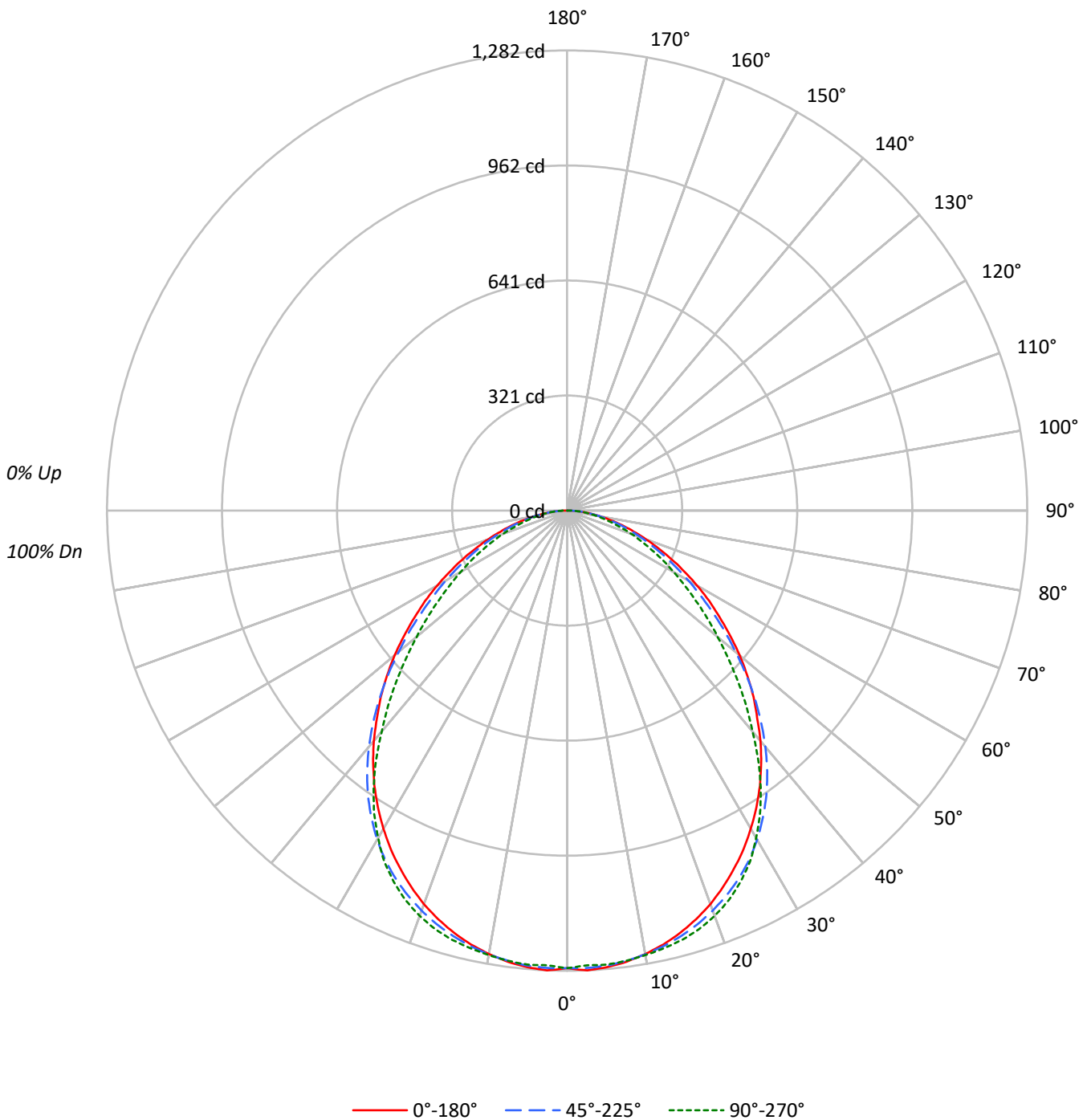
Lumens per Lamp: N/A
Luminaire Lumens: 3065.4 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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

TEST NUMBER: P128125

CATALOG NUMBER: 14ALNG-LD4-31-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P128125

CATALOG NUMBER: 14ALNG-LD4-31-UNV-L830-CD1-U

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62				62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54				54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47				47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3821	3821	3821
5°	3842	3830	3821
10°	3819	3822	3828
15°	3780	3810	3843
20°	3723	3784	3833
25°	3640	3742	3777
30°	3544	3667	3647
35°	3426	3542	3440
40°	3279	3362	3144
45°	3112	3132	2851
50°	2925	2858	2553
55°	2710	2589	2288
60°	2503	2342	2054
65°	2279	2115	1842
70°	2049	1914	1670
75°	1838	1739	1482
80°	1628	1595	1378
85°	1455	1489	1424



TEST NUMBER: P128125

CATALOG NUMBER: 14ALNG-LD4-31-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.9
10°-20°	345.4	11.3
20°-30°	516.5	16.9
30°-40°	592.3	19.3
40°-50°	554.2	18.1
50°-60°	437.2	14.3
60°-70°	293.7	9.6
70°-80°	157.6	5.1
80°-90°	47.9	1.6
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°	982.6	32.1
0°-40°	1574.9	51.4
0°-60°	2566.2	83.7
0°-90°	3065.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1277	1265	1273	1269	1270	121
15°	1218	1211	1228	1233	1238	343
25°	1100	1103	1131	1137	1142	507
35°	936	945	968	950	940	584
45°	734	744	739	692	672	565
55°	518	522	495	452	438	465
65°	321	320	298	268	260	319
75°	159	160	150	135	128	169
85°	42	47	43	42	41	48
90°	0	0	0	0	0	



TEST NUMBER: P128125

CATALOG NUMBER: 14ALNG-LD4-31-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1282.3	1268.9	1275.6	1272.7	1267.9
5°	1276.6	1265.0	1272.7	1268.9	1269.8
7.5°	1267.9	1257.3	1265.0	1263.1	1265.0
10°	1254.4	1244.8	1255.4	1254.4	1257.3
12.5°	1238.1	1229.4	1242.9	1243.9	1248.7
15°	1217.9	1211.2	1227.5	1233.3	1238.1
17.5°	1193.8	1189.0	1208.3	1216.0	1222.7
20°	1166.9	1164.0	1186.1	1194.8	1201.5
22.5°	1135.2	1135.2	1160.2	1167.9	1175.6
25°	1100.5	1103.4	1131.3	1137.1	1141.9
27.5°	1064.0	1067.8	1097.6	1101.5	1103.4
30°	1023.6	1030.3	1059.2	1056.3	1053.4
32.5°	981.2	988.9	1014.9	1007.2	1000.5
35°	936.0	944.7	967.8	949.5	939.9
37.5°	887.9	896.6	915.8	887.9	874.5
40°	837.9	847.5	859.1	822.5	803.3
42.5°	784.0	796.5	799.4	757.1	738.8
45°	734.0	743.6	738.8	691.7	672.4
47.5°	681.1	688.8	676.3	626.3	608.0
50°	627.2	633.0	612.8	564.7	547.4
52.5°	572.4	578.2	554.1	507.0	491.6
55°	518.5	522.4	495.4	452.1	437.7
57.5°	469.5	469.5	440.6	401.2	388.6
60°	417.5	417.5	390.6	354.0	342.5
62.5°	368.4	367.5	341.5	309.8	302.1
65°	321.3	320.3	298.2	268.4	259.7
67.5°	276.1	275.1	255.9	231.8	224.1
70°	233.8	233.8	218.4	206.8	190.5
72.5°	194.3	198.2	182.8	165.5	156.8
75°	158.7	159.7	150.1	134.7	127.9
77.5°	125.1	127.9	118.3	106.8	102.9
80°	94.3	97.2	92.4	81.8	79.8
82.5°	66.4	71.2	66.4	61.6	60.6
85°	42.3	47.1	43.3	42.3	41.4
87.5°	20.2	22.1	22.1	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)