

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: P128124

Luminaire Tested: **14ALNG-LD4-31-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128124
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-L840-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24767)
Light Source: -
Ballast/Driver: -

Summary

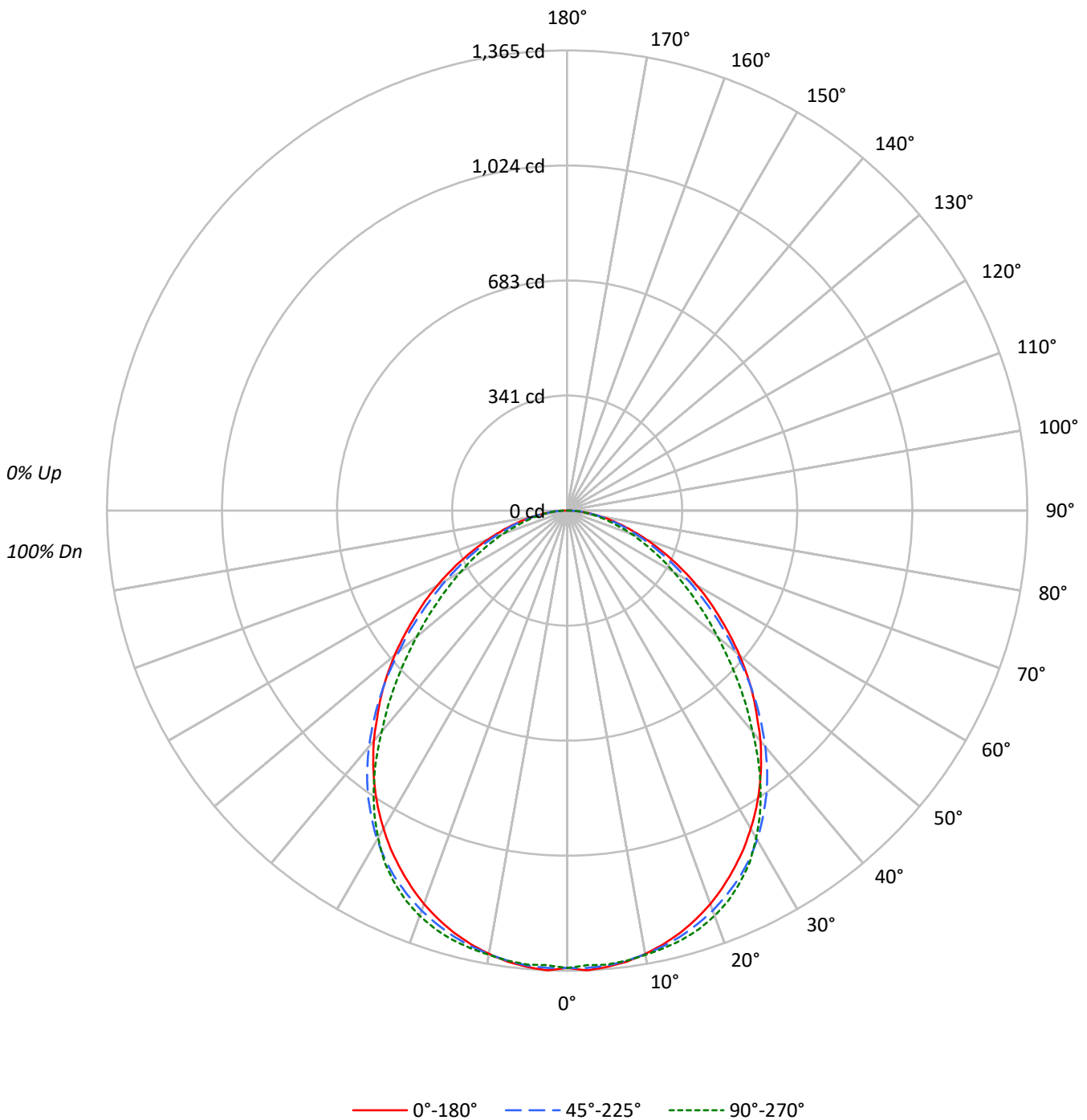
Lumens per Lamp: N/A
Luminaire Lumens: 3263.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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

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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	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°	4068	4068	4068
5°	4089	4077	4068
10°	4065	4068	4075
15°	4024	4055	4091
20°	3963	4028	4081
25°	3875	3983	4021
30°	3772	3903	3882
35°	3647	3770	3661
40°	3491	3579	3346
45°	3313	3334	3035
50°	3114	3042	2718
55°	2885	2757	2435
60°	2665	2493	2186
65°	2426	2252	1961
70°	2181	2037	1778
75°	1958	1850	1578
80°	1733	1697	1468
85°	1551	1586	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.9
10°-20°	367.6	11.3
20°-30°	549.8	16.9
30°-40°	630.4	19.3
40°-50°	589.9	18.1
50°-60°	465.3	14.3
60°-70°	312.6	9.6
70°-80°	167.8	5.1
80°-90°	51.0	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°	1045.9	32.1
0°-40°	1676.4	51.4
0°-60°	2731.6	83.7
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1359	1347	1355	1351	1352	129
15°	1296	1289	1307	1313	1318	365
25°	1172	1174	1204	1210	1216	539
35°	996	1006	1030	1011	1000	622
45°	781	792	786	736	716	602
55°	552	556	527	481	466	495
65°	342	341	317	286	276	340
75°	169	170	160	143	136	180
85°	45	50	46	45	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1365.0	1350.7	1357.8	1354.8	1349.6
5°	1358.8	1346.6	1354.8	1350.7	1351.7
7.5°	1349.6	1338.4	1346.6	1344.5	1346.6
10°	1335.3	1325.1	1336.3	1335.3	1338.4
12.5°	1317.9	1308.7	1323.0	1324.0	1329.2
15°	1296.4	1289.2	1306.6	1312.8	1317.9
17.5°	1270.8	1265.7	1286.1	1294.3	1301.5
20°	1242.1	1239.0	1262.6	1271.8	1279.0
22.5°	1208.3	1208.3	1234.9	1243.1	1251.3
25°	1171.5	1174.5	1204.2	1210.4	1215.5
27.5°	1132.5	1136.6	1168.4	1172.5	1174.5
30°	1089.5	1096.7	1127.4	1124.4	1121.3
32.5°	1044.5	1052.7	1080.3	1072.1	1065.0
35°	996.4	1005.6	1030.1	1010.7	1000.4
37.5°	945.2	954.4	974.8	945.2	930.8
40°	891.9	902.1	914.4	875.5	855.0
42.5°	834.6	847.9	850.9	805.9	786.4
45°	781.3	791.6	786.4	736.3	715.8
47.5°	725.0	733.2	719.9	666.6	647.2
50°	667.6	673.8	652.3	601.1	582.7
52.5°	609.3	615.4	589.8	539.6	523.3
55°	551.9	556.0	527.4	481.3	465.9
57.5°	499.7	499.7	469.0	427.0	413.7
60°	444.4	444.4	415.7	376.8	364.5
62.5°	392.2	391.2	363.5	329.7	321.5
65°	342.0	341.0	317.4	285.7	276.5
67.5°	293.9	292.9	272.4	246.8	238.6
70°	248.8	248.8	232.4	220.2	202.8
72.5°	206.8	210.9	194.6	176.1	166.9
75°	169.0	170.0	159.7	143.4	136.2
77.5°	133.1	136.2	126.0	113.7	109.6
80°	100.4	103.4	98.3	87.0	85.0
82.5°	70.7	75.8	70.7	65.5	64.5
85°	45.1	50.2	46.1	45.1	44.0
87.5°	21.5	23.6	23.6	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)