

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: P128127

Luminaire Tested: **14ALNG-LD4-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128127
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-35-UNV-L840-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (24766)
Light Source: -
Ballast/Driver: -

Summary

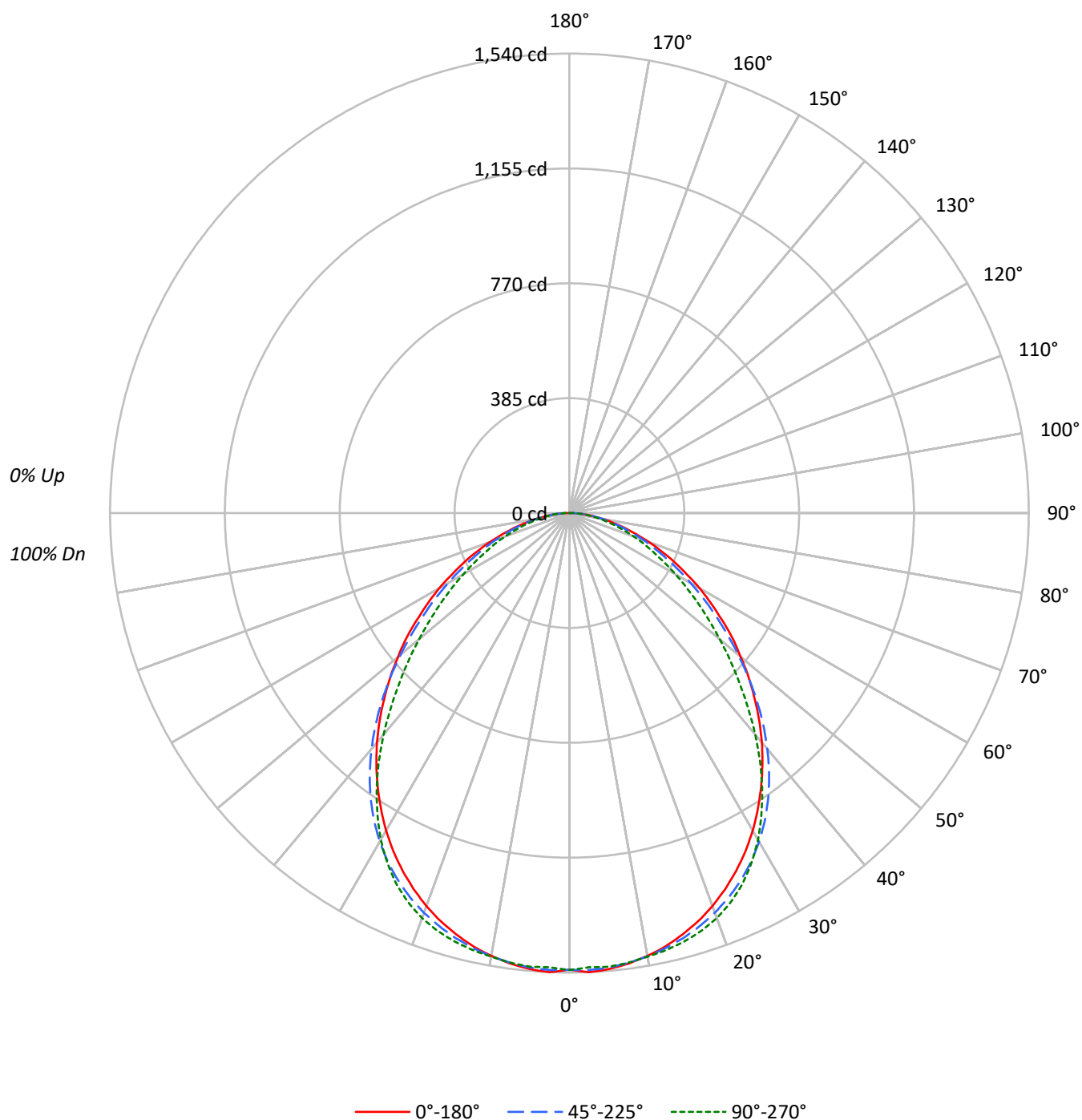
Lumens per Lamp: N/A
Luminaire Lumens: 3684.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 42.3
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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	82	72	64	58		70	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	35			45
9	59	46	38	32	57	45	38	32		44	37	32			43	37	32			42
10	55	42	35	30	54	42	34	30		41	34	29			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4590	4590	4590
5°	4617	4601	4592
10°	4589	4592	4595
15°	4539	4577	4615
20°	4473	4548	4610
25°	4376	4495	4539
30°	4254	4403	4378
35°	4100	4254	4123
40°	3927	4040	3791
45°	3721	3764	3421
50°	3496	3448	3066
55°	3260	3120	2746
60°	3021	2812	2462
65°	2753	2535	2201
70°	2477	2316	2011
75°	2207	2087	1791
80°	1944	1927	1644
85°	1727	1796	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.9
10°-20°	414.9	11.3
20°-30°	620.6	16.8
30°-40°	711.0	19.3
40°-50°	666.1	18.1
50°-60°	526.0	14.3
60°-70°	353.5	9.6
70°-80°	190.0	5.2
80°-90°	57.7	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°	1180.5	32.0
0°-40°	1891.5	51.3
0°-60°	3083.6	83.7
0°-90°	3684.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1534	1520	1529	1525	1526	146
15°	1462	1454	1475	1482	1487	412
25°	1323	1324	1359	1369	1372	609
35°	1120	1134	1162	1139	1126	700
45°	878	894	888	829	807	677
55°	624	629	597	545	525	559
65°	388	385	357	324	310	385
75°	190	192	180	163	155	204
85°	50	57	52	50	50	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1540.1	1524.7	1532.9	1529.9	1523.7
5°	1534.0	1519.6	1528.8	1524.7	1525.8
7.5°	1522.7	1508.4	1520.6	1518.6	1519.6
10°	1507.3	1494.0	1508.4	1507.3	1509.4
12.5°	1487.9	1476.6	1493.0	1496.1	1500.2
15°	1462.3	1454.1	1474.6	1481.7	1486.8
17.5°	1434.6	1427.5	1452.0	1462.3	1468.4
20°	1401.9	1397.8	1425.4	1435.6	1444.9
22.5°	1364.0	1362.9	1394.7	1404.9	1412.1
25°	1323.0	1324.0	1358.8	1369.1	1372.2
27.5°	1278.0	1283.1	1317.9	1324.0	1322.0
30°	1228.8	1237.0	1271.8	1270.8	1264.6
32.5°	1175.6	1187.8	1219.6	1208.3	1198.1
35°	1120.3	1133.6	1162.2	1138.7	1126.4
37.5°	1062.9	1079.3	1099.8	1065.0	1049.6
40°	1003.5	1019.9	1032.2	988.2	968.7
42.5°	941.1	957.4	961.5	911.4	886.8
45°	877.6	894.0	887.8	829.4	806.9
47.5°	815.1	829.4	813.1	753.7	731.1
50°	749.6	761.9	739.3	682.0	657.4
52.5°	690.2	694.3	665.6	611.3	588.8
55°	623.6	628.7	597.0	544.8	525.3
57.5°	562.2	564.2	532.5	483.3	465.9
60°	503.8	501.8	469.0	427.0	410.6
62.5°	442.4	442.4	411.6	373.8	358.4
65°	388.1	385.0	357.4	323.6	310.3
67.5°	333.8	331.8	307.2	279.6	270.3
70°	282.6	282.6	264.2	250.9	229.4
72.5°	234.5	238.6	219.1	198.7	189.4
75°	190.5	192.5	180.2	162.8	154.6
77.5°	149.5	153.6	143.4	129.0	122.9
80°	112.6	118.8	111.6	99.3	95.2
82.5°	79.9	86.0	79.9	73.7	71.7
85°	50.2	57.3	52.2	50.2	50.2
87.5°	24.6	27.6	26.6	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)