

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: P166477

Luminaire Tested: **22ALNG-LD4-40-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166477
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-40-UNV-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

Summary

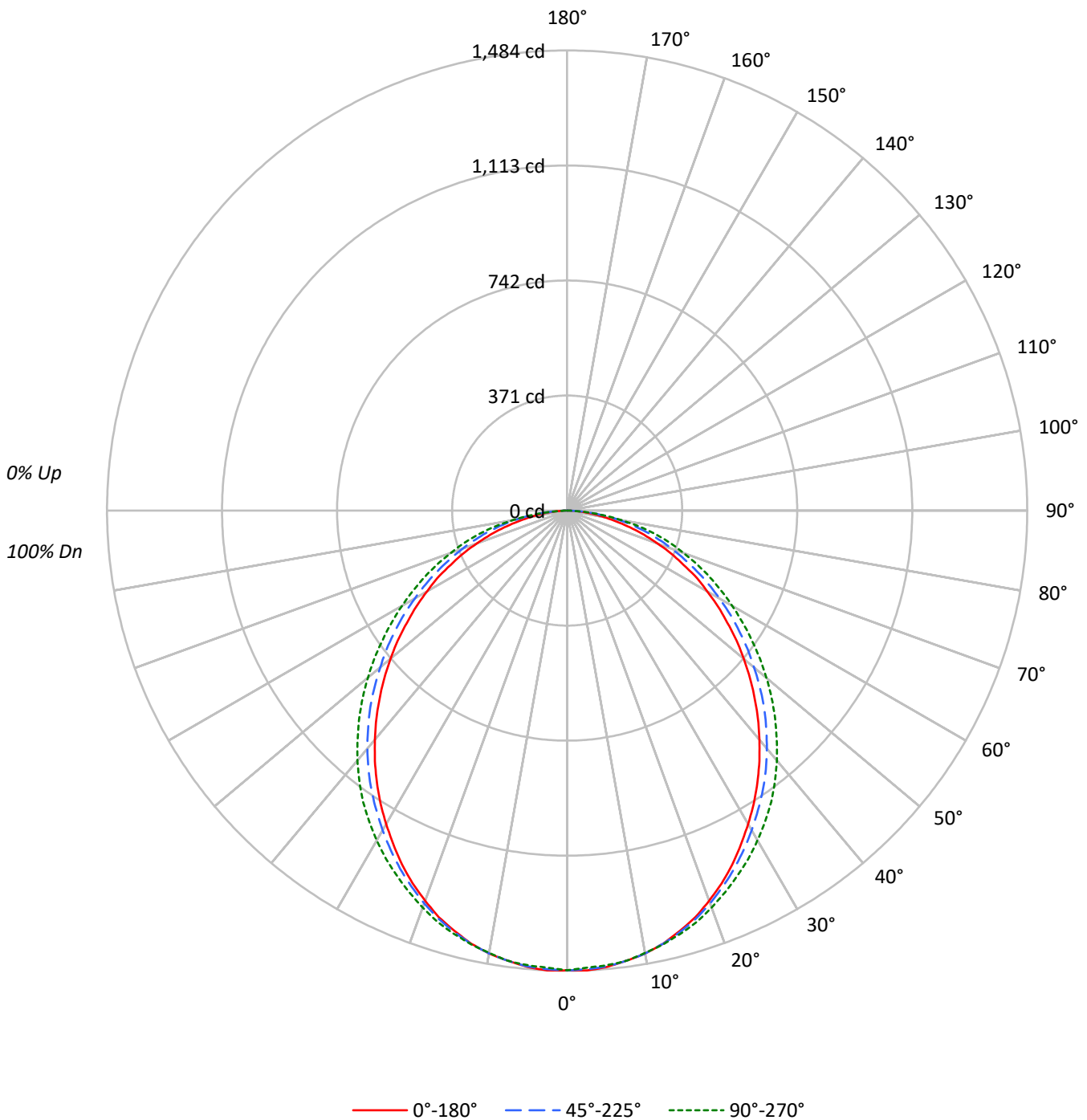
Lumens per Lamp: N/A
Luminaire Lumens: 3915.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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°	4344	4344	4344
5°	4345	4339	4329
10°	4315	4315	4309
15°	4258	4269	4285
20°	4175	4203	4248
25°	4074	4120	4202
30°	3948	4027	4154
35°	3828	3937	4104
40°	3689	3833	4025
45°	3543	3721	3929
50°	3391	3587	3824
55°	3223	3461	3709
60°	3057	3320	3603
65°	2871	3194	3517
70°	2657	3071	3410
75°	2374	2963	3349
80°	2027	2813	2995
85°	1627	2289	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.6
10°-20°	396.9	10.1
20°-30°	588.1	15.0
30°-40°	690.4	17.6
40°-50°	693.3	17.7
50°-60°	606.1	15.5
60°-70°	455.7	11.6
70°-80°	271.1	6.9
80°-90°	74.3	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°	1125.0	28.7
0°-40°	1815.5	46.4
0°-60°	3114.8	79.5
0°-90°	3915.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1477	1477	1475	1474	1472	140
15°	1404	1405	1407	1413	1413	396
25°	1260	1262	1274	1292	1300	580
35°	1070	1077	1101	1133	1147	669
45°	855	866	898	932	948	660
55°	631	644	678	710	726	565
65°	414	427	461	489	507	412
75°	210	228	262	285	296	223
85°	48	59	68	68	66	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1484.3	1482.5	1480.7	1477.1	1475.3
5°	1477.1	1477.1	1475.3	1473.5	1471.7
7.5°	1464.6	1466.3	1464.6	1464.6	1464.6
10°	1450.2	1452.0	1450.2	1450.2	1448.4
12.5°	1430.5	1430.5	1430.5	1432.3	1432.3
15°	1403.6	1405.4	1407.2	1412.6	1412.6
17.5°	1374.9	1374.9	1380.3	1389.3	1391.1
20°	1339.1	1340.9	1348.0	1358.8	1362.4
22.5°	1301.4	1303.2	1312.2	1326.5	1331.9
25°	1260.2	1262.0	1274.5	1292.5	1299.6
27.5°	1213.6	1217.2	1233.3	1256.6	1265.6
30°	1167.0	1172.4	1190.3	1217.2	1227.9
32.5°	1120.4	1125.8	1145.5	1175.9	1188.5
35°	1070.2	1077.4	1100.7	1132.9	1147.3
37.5°	1018.2	1025.4	1052.3	1086.3	1100.7
40°	964.4	973.4	1002.1	1036.1	1052.3
42.5°	910.6	919.6	950.1	984.1	1000.3
45°	855.1	865.8	898.1	932.2	948.3
47.5°	799.5	810.3	842.5	876.6	894.5
50°	743.9	754.7	787.0	821.0	838.9
52.5°	688.4	699.1	733.2	765.4	783.4
55°	631.0	643.5	677.6	709.9	726.0
57.5°	577.2	588.0	623.8	654.3	670.4
60°	521.6	534.2	566.5	596.9	614.9
62.5°	473.2	478.6	514.5	543.2	561.1
65°	414.1	426.6	460.7	489.4	507.3
67.5°	363.9	374.7	408.7	439.2	453.5
70°	310.1	324.5	358.5	385.4	398.0
72.5°	259.9	274.3	310.1	337.0	349.6
75°	209.7	227.7	261.7	285.0	295.8
77.5°	163.1	182.8	213.3	234.8	240.2
80°	120.1	138.0	166.7	175.7	177.5
82.5°	82.5	98.6	116.5	120.1	120.1
85°	48.4	59.2	68.1	68.1	66.3
87.5°	21.5	25.1	23.3	21.5	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)