

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: P31368

Luminaire Tested: **2ALNG-BX40-SDL-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31368
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-BX40-SDL-UNV-EB81-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS AND OVERLAY
Light Source: (2) FOUR PIN 2G11-4 BASE SINGLE ENDED 40W BIAx FLUORESCENT LAMP, 3500K,
3150 EA
F40BX/SPX35/RS
Ballast/Driver: -
C240PUNVHP-B

Summary

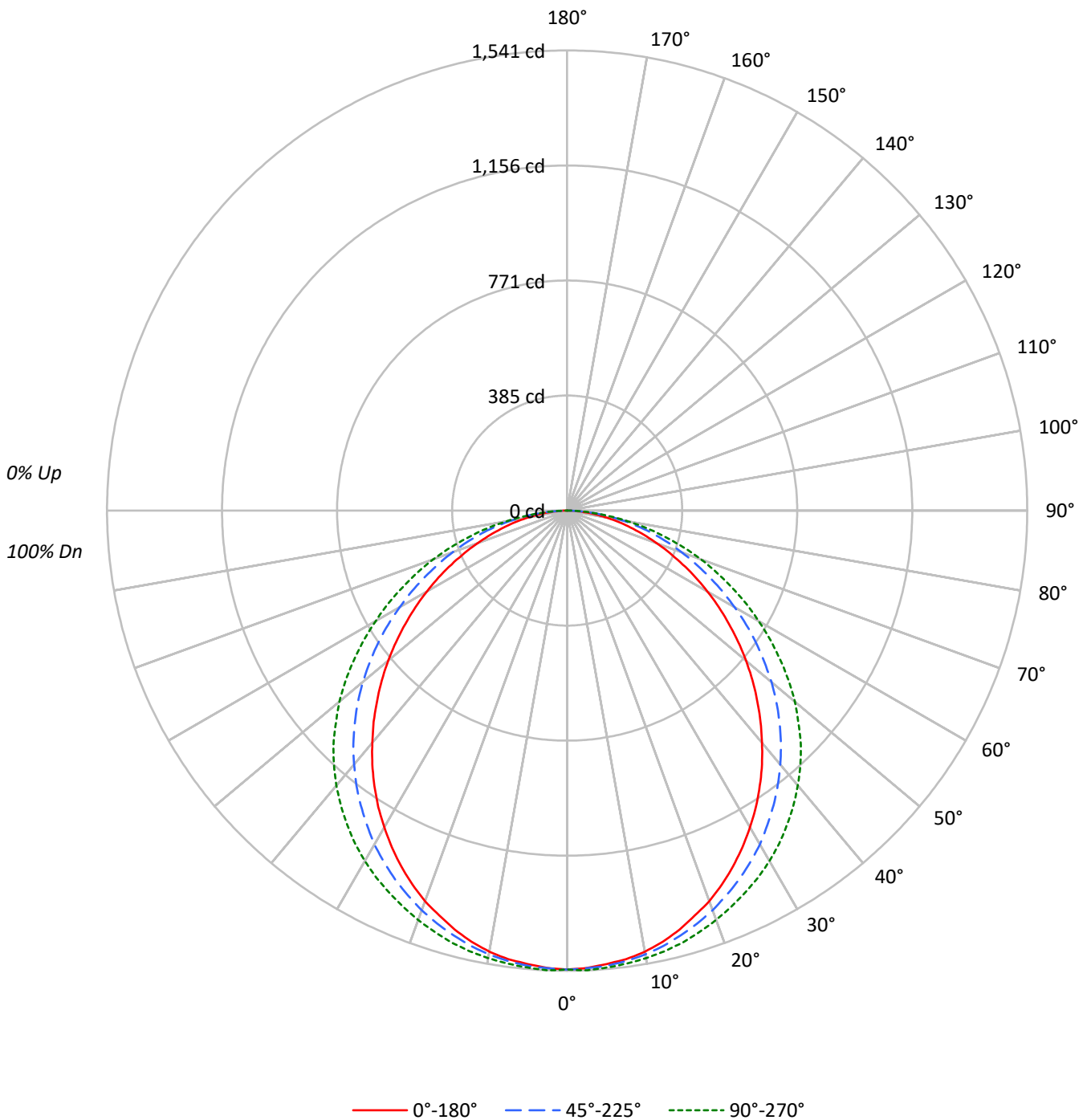
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4316.2 lumens
Efficiency: 68.5%
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 68.2
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	74	71	68	66	73	70	67	64	67	64	62	64	62	60	62	60	59	57
2	68	62	57	53	66	61	56	53	58	55	51	56	53	50	54	51	49	48
3	62	54	49	44	60	53	48	44	51	47	43	49	46	42	48	44	42	40
4	56	48	42	38	55	47	42	37	46	41	37	44	40	36	42	39	36	34
5	52	43	37	32	50	42	37	32	41	36	32	39	35	31	38	34	31	30
6	48	39	33	28	47	38	32	28	37	32	28	36	31	28	35	31	27	26
7	44	35	29	25	43	35	29	25	34	28	25	33	28	24	32	27	24	23
8	41	32	26	22	40	32	26	22	31	26	22	30	25	22	29	25	22	20
9	39	29	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	18
10	36	27	22	18	35	27	22	18	26	21	18	26	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5276	5276	5276
5°	5251	5272	5293
10°	5228	5260	5305
15°	5163	5231	5320
20°	5085	5202	5329
25°	4980	5162	5344
30°	4855	5117	5371
35°	4714	5049	5380
40°	4548	4974	5386
45°	4369	4883	5374
50°	4176	4769	5319
55°	3956	4626	5212
60°	3728	4449	5087
65°	3468	4264	4938
70°	3202	4095	4787
75°	2918	3939	4496
80°	2570	3696	4092
85°	2166	3151	3348



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	145.5	3.4	2.3	0°	1537	1537	1537	1537	1537	
10°-20°	416.0	9.6	6.6	5°	1524	1527	1530	1534	1536	145
20°-30°	628.3	14.6	10.0	15°	1453	1460	1472	1490	1497	409
30°-40°	754.0	17.5	12.0	25°	1315	1330	1363	1397	1411	605
40°-50°	774.8	18.0	12.3	35°	1125	1151	1205	1263	1284	703
50°-60°	688.3	15.9	10.9	45°	900	934	1006	1077	1107	694
60°-70°	517.0	12.0	8.2	55°	661	698	773	845	871	592
70°-80°	304.4	7.1	4.8	65°	427	458	525	585	608	424
80°-90°	87.9	2.0	1.4	75°	220	244	297	329	339	235
90°-100°	0.0	0.0	0.0	85°	55	69	80	83	85	64
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1189.8	27.6	18.9							
0°-40°	1943.8	45.0	30.9							
0°-60°	3406.9	78.9	54.1							
0°-90°	4316.2	100.0	68.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4316.2	100.0	68.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537	1537	1537	1537	1537
2.5°	1533	1535	1534	1539	1541
5°	1524	1527	1530	1534	1536
7.5°	1515	1519	1521	1528	1530
10°	1500	1504	1509	1518	1522
12.5°	1479	1483	1493	1506	1511
15°	1453	1460	1472	1490	1497
17.5°	1422	1433	1450	1472	1479
20°	1392	1402	1424	1449	1459
22.5°	1355	1368	1394	1424	1436
25°	1315	1330	1363	1397	1411
27.5°	1271	1290	1328	1368	1385
30°	1225	1247	1291	1335	1355
32.5°	1177	1199	1248	1302	1322
35°	1125	1151	1205	1263	1284
37.5°	1072	1099	1159	1221	1245
40°	1015	1046	1110	1175	1202
42.5°	959	990	1060	1128	1156
45°	900	934	1006	1077	1107
47.5°	842	875	951	1023	1050
50°	782	819	893	968	996
52.5°	722	757	832	907	935
55°	661	698	773	845	871
57.5°	602	636	711	780	807
60°	543	577	648	713	741
62.5°	485	516	586	650	677
65°	427	458	525	585	608
67.5°	372	402	465	520	542
70°	319	348	408	459	477
72.5°	269	294	352	395	408
75°	220	244	297	329	339
77.5°	176	196	242	264	274
80°	130	151	187	204	207
82.5°	92	110	134	140	143
85°	55	69	80	83	85
87.5°	23	30	35	38	38
90°	0	0	0	0	0

(END OF REPORT)