

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: P166471

Luminaire Tested: **22ALNG-LD4-40-UNV-L830-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166471
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-L830-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

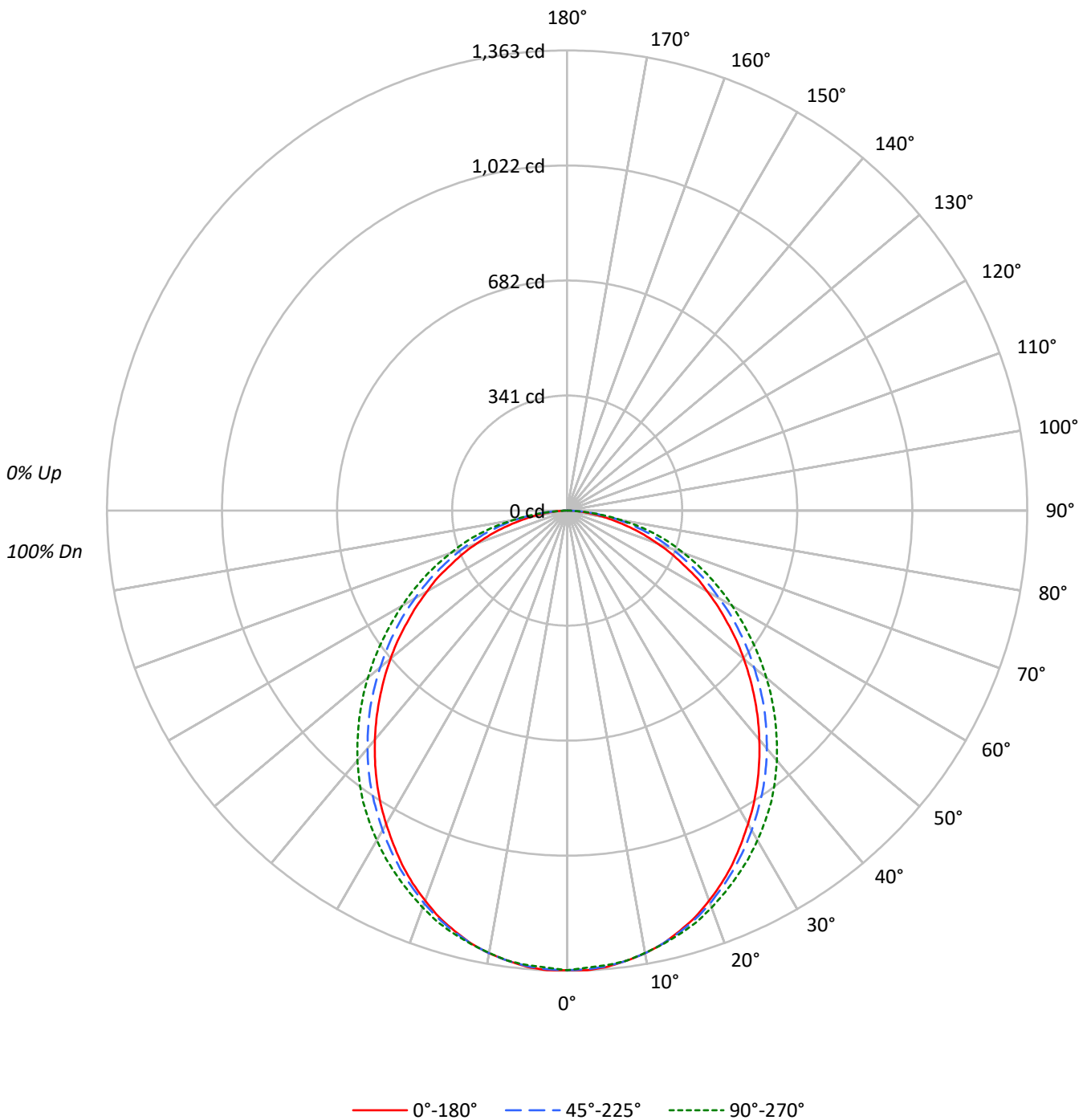
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3596.0 lumens
Efficiency: N/A
Efficacy: 89.9 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	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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84					84			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3989	3989	3989
5°	3990	3985	3975
10°	3962	3962	3957
15°	3910	3920	3935
20°	3834	3860	3901
25°	3741	3784	3858
30°	3626	3698	3815
35°	3515	3616	3769
40°	3387	3520	3696
45°	3254	3417	3608
50°	3114	3294	3512
55°	2960	3178	3406
60°	2807	3048	3309
65°	2637	2933	3230
70°	2440	2820	3131
75°	2180	2720	3075
80°	1861	2583	2750
85°	1493	2101	2047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.6
10°-20°	364.5	10.1
20°-30°	540.1	15.0
30°-40°	634.0	17.6
40°-50°	636.6	17.7
50°-60°	556.6	15.5
60°-70°	418.4	11.6
70°-80°	249.0	6.9
80°-90°	68.3	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°	1033.1	28.7
0°-40°	1667.1	46.4
0°-60°	2860.3	79.5
0°-90°	3596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1356	1356	1355	1353	1352	129
15°	1289	1291	1292	1297	1297	363
25°	1157	1159	1170	1187	1193	532
35°	983	989	1011	1040	1054	614
45°	785	795	825	856	871	606
55°	579	591	622	652	667	519
65°	380	392	423	449	466	379
75°	193	209	240	262	272	205
85°	44	54	62	62	61	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.4	1361.4	1361.4	1361.4	1361.4
2.5°	1363.0	1361.4	1359.7	1356.4	1354.8
5°	1356.4	1356.4	1354.8	1353.1	1351.5
7.5°	1344.9	1346.5	1344.9	1344.9	1344.9
10°	1331.7	1333.4	1331.7	1331.7	1330.1
12.5°	1313.6	1313.6	1313.6	1315.3	1315.3
15°	1288.9	1290.6	1292.2	1297.2	1297.2
17.5°	1262.6	1262.6	1267.5	1275.8	1277.4
20°	1229.7	1231.3	1237.9	1247.8	1251.1
22.5°	1195.1	1196.7	1205.0	1218.1	1223.1
25°	1157.2	1158.9	1170.4	1186.9	1193.4
27.5°	1114.4	1117.8	1132.5	1153.9	1162.2
30°	1071.7	1076.6	1093.1	1117.8	1127.6
32.5°	1028.9	1033.8	1051.9	1079.8	1091.4
35°	982.8	989.4	1010.8	1040.3	1053.6
37.5°	935.0	941.6	966.3	997.5	1010.8
40°	885.6	893.9	920.2	951.5	966.3
42.5°	836.2	844.5	872.5	903.7	918.6
45°	785.2	795.1	824.7	856.0	870.8
47.5°	734.2	744.1	773.7	805.0	821.4
50°	683.1	693.0	722.7	753.9	770.4
52.5°	632.2	642.0	673.3	702.9	719.4
55°	579.4	590.9	622.2	651.9	666.7
57.5°	530.0	540.0	572.8	600.8	615.6
60°	479.0	490.6	520.2	548.1	564.7
62.5°	434.5	439.5	472.5	498.8	515.3
65°	380.3	391.7	423.1	449.4	465.9
67.5°	334.2	344.1	375.3	403.3	416.4
70°	284.8	298.0	329.2	353.9	365.5
72.5°	238.7	251.9	284.8	309.5	321.0
75°	192.6	209.1	240.3	261.7	271.6
77.5°	149.8	167.9	195.9	215.6	220.6
80°	110.3	126.7	153.1	161.3	163.0
82.5°	75.8	90.5	107.0	110.3	110.3
85°	44.4	54.4	62.5	62.5	60.9
87.5°	19.7	23.0	21.4	19.7	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)