

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: P166482

Luminaire Tested: **22ALNG-LD4-35-UNV-L840-CD1**

Issue Date: 3/3/2020



**Test Information**

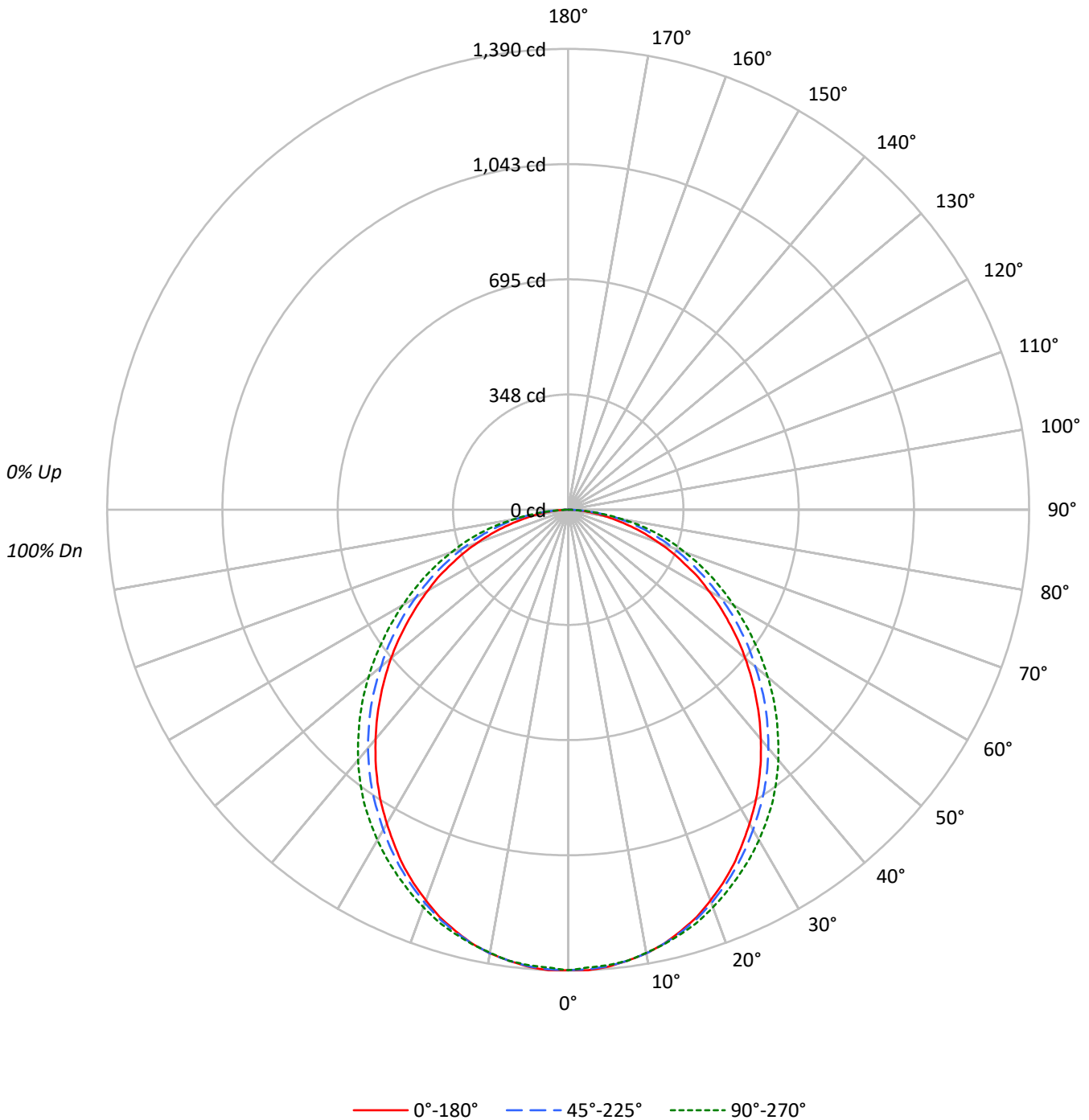
Test Method: LM-79-08  
Report Number: P166482  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD4-35-UNV-L840-CD1  
Description: METALUX ARCLINE 2X2 LED FIXTURE  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3668.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 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): 34.5  
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°	4070	4070	4070
5°	4070	4065	4055
10°	4042	4042	4037
15°	3989	3999	4014
20°	3911	3938	3980
25°	3817	3860	3936
30°	3699	3772	3892
35°	3586	3689	3844
40°	3456	3591	3770
45°	3320	3486	3681
50°	3177	3360	3582
55°	3020	3243	3474
60°	2864	3110	3375
65°	2689	2992	3295
70°	2489	2878	3194
75°	2225	2776	3137
80°	1898	2634	2806
85°	1523	2145	2091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	3.6
10°-20°	371.8	10.1
20°-30°	550.9	15.0
30°-40°	646.8	17.6
40°-50°	649.5	17.7
50°-60°	567.8	15.5
60°-70°	426.9	11.6
70°-80°	254.0	6.9
80°-90°	69.6	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°	1054.0	28.7
0°-40°	1700.7	46.4
0°-60°	2918.0	79.5
0°-90°	3668.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1384	1384	1382	1380	1379	131
15°	1315	1317	1318	1323	1323	371
25°	1181	1182	1194	1211	1218	543
35°	1003	1009	1031	1061	1075	627
45°	801	811	841	873	888	618
55°	591	603	635	665	680	530
65°	388	400	432	458	475	386
75°	196	213	245	267	277	209
85°	45	55	64	64	62	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1388.9	1388.9	1388.9	1388.9	1388.9
2.5°	1390.4	1388.9	1387.2	1383.8	1382.1
5°	1383.8	1383.8	1382.1	1380.4	1378.7
7.5°	1372.0	1373.7	1372.0	1372.0	1372.0
10°	1358.6	1360.3	1358.6	1358.6	1356.9
12.5°	1340.1	1340.1	1340.1	1341.8	1341.8
15°	1314.9	1316.6	1318.3	1323.3	1323.3
17.5°	1288.0	1288.0	1293.1	1301.5	1303.2
20°	1254.4	1256.1	1262.8	1273.0	1276.3
22.5°	1219.2	1220.9	1229.2	1242.7	1247.8
25°	1180.6	1182.2	1194.0	1210.8	1217.5
27.5°	1136.9	1140.3	1155.4	1177.2	1185.6
30°	1093.2	1098.3	1115.0	1140.3	1150.3
32.5°	1049.6	1054.7	1073.1	1101.6	1113.4
35°	1002.6	1009.2	1031.2	1061.3	1074.8
37.5°	953.8	960.6	985.7	1017.7	1031.2
40°	903.5	911.9	938.8	970.7	985.7
42.5°	853.1	861.5	890.1	922.0	937.1
45°	801.1	811.2	841.3	873.2	888.4
47.5°	749.0	759.0	789.3	821.2	838.0
50°	697.0	707.0	737.2	769.1	785.9
52.5°	644.9	654.9	686.8	717.1	733.8
55°	591.2	602.9	634.8	665.0	680.1
57.5°	540.7	550.8	584.4	613.0	628.1
60°	488.7	500.5	530.7	559.3	576.0
62.5°	443.4	448.4	481.9	508.9	525.6
65°	387.9	399.6	431.6	458.4	475.3
67.5°	340.9	351.0	382.9	411.4	424.9
70°	290.5	304.0	335.9	361.1	372.8
72.5°	243.5	257.0	290.5	315.8	327.5
75°	196.5	213.2	245.2	267.0	277.1
77.5°	152.8	171.3	199.9	220.0	225.0
80°	112.5	129.3	156.1	164.6	166.3
82.5°	77.2	92.4	109.2	112.5	112.5
85°	45.3	55.4	63.8	63.8	62.2
87.5°	20.1	23.5	21.8	20.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)