

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: P166530

Luminaire Tested: **24ALNG-LD4-80-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166530
Test Lab: INNOVATION CENTER-P2
Test Date: 03/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD4-80-UNV-L840-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

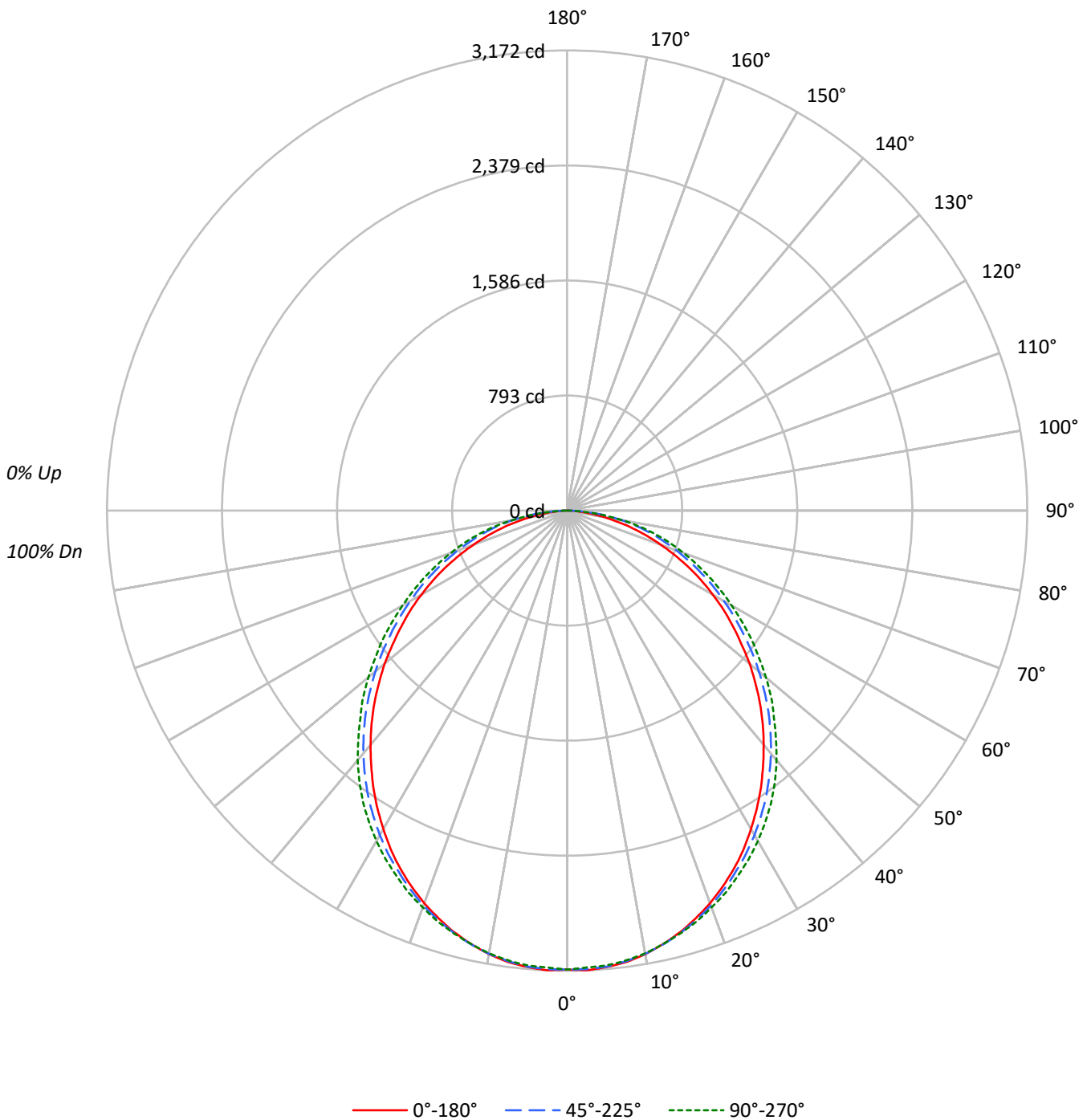
Lumens per Lamp: N/A
Luminaire Lumens: 8502.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 82.2
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	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	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
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°	4536	4536	4536
5°	4545	4541	4529
10°	4520	4516	4512
15°	4467	4475	4479
20°	4395	4420	4442
25°	4308	4348	4401
30°	4197	4276	4355
35°	4078	4191	4294
40°	3946	4093	4203
45°	3814	3979	4087
50°	3663	3851	3989
55°	3495	3712	3881
60°	3325	3582	3759
65°	3133	3467	3667
70°	2883	3354	3577
75°	2566	3266	3499
80°	2132	3152	3199
85°	1571	2632	2400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	3.5
10°-20°	848.7	10.0
20°-30°	1265.2	14.9
30°-40°	1492.7	17.6
40°-50°	1505.5	17.7
50°-60°	1322.5	15.6
60°-70°	1000.6	11.8
70°-80°	600.4	7.1
80°-90°	168.1	2.0
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°	2413.0	28.4
0°-40°	3905.7	45.9
0°-60°	6733.7	79.2
0°-90°	8502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3164	3164	3164	3164	3164	
5°	3158	3144	3155	3149	3147	300
15°	3009	2998	3015	3018	3018	848
25°	2723	2720	2748	2765	2782	1253
35°	2330	2335	2394	2431	2453	1456
45°	1881	1895	1962	2001	2015	1449
55°	1398	1429	1485	1527	1552	1251
65°	924	954	1022	1061	1081	913
75°	463	516	590	623	632	492
85°	96	143	160	152	146	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3163.5	3163.5	3163.5	3163.5	3163.5
2.5°	3171.9	3155.1	3163.5	3163.5	3152.3
5°	3157.8	3143.8	3155.1	3149.4	3146.7
7.5°	3138.3	3121.4	3132.6	3129.8	3127.0
10°	3104.5	3087.7	3101.7	3099.0	3099.0
12.5°	3059.7	3048.4	3062.4	3059.7	3059.7
15°	3009.1	2997.9	3014.8	3017.5	3017.5
17.5°	2947.3	2938.9	2958.6	2964.2	2969.8
20°	2880.0	2874.3	2896.9	2899.6	2910.9
22.5°	2804.2	2798.6	2826.6	2837.9	2851.9
25°	2722.8	2720.0	2748.1	2764.9	2781.7
27.5°	2632.9	2632.9	2669.5	2691.9	2708.8
30°	2534.8	2540.3	2582.5	2610.5	2630.2
32.5°	2433.7	2442.1	2489.8	2523.5	2543.2
35°	2329.8	2335.4	2394.4	2430.9	2453.3
37.5°	2217.5	2231.5	2290.5	2329.8	2352.3
40°	2108.0	2122.1	2186.6	2223.1	2245.6
42.5°	1995.7	2009.8	2074.3	2116.5	2130.5
45°	1880.7	1894.7	1962.1	2001.4	2015.4
47.5°	1760.0	1782.5	1844.2	1883.5	1908.8
50°	1642.1	1661.7	1726.3	1765.6	1788.1
52.5°	1515.8	1543.8	1605.6	1644.9	1667.3
55°	1397.9	1428.8	1484.9	1527.0	1552.3
57.5°	1282.8	1308.0	1367.0	1409.1	1431.5
60°	1159.3	1190.1	1249.1	1288.4	1310.9
62.5°	1041.4	1072.2	1136.8	1176.1	1195.7
65°	923.5	954.4	1021.8	1061.1	1080.7
67.5°	802.8	839.3	909.5	948.8	965.6
70°	687.7	729.8	800.0	839.3	853.3
72.5°	572.6	620.4	693.4	729.8	743.8
75°	463.2	516.5	589.5	623.2	631.5
77.5°	356.5	415.4	485.6	513.6	516.5
80°	258.2	317.2	381.7	390.1	387.4
82.5°	168.5	230.2	272.3	263.8	263.8
85°	95.5	143.2	160.0	151.6	145.9
87.5°	42.1	61.7	56.2	47.7	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)