

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: P166519

Luminaire Tested: **24ALNG-LD4-74-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166519
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-LD4-74-UNV-L835-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

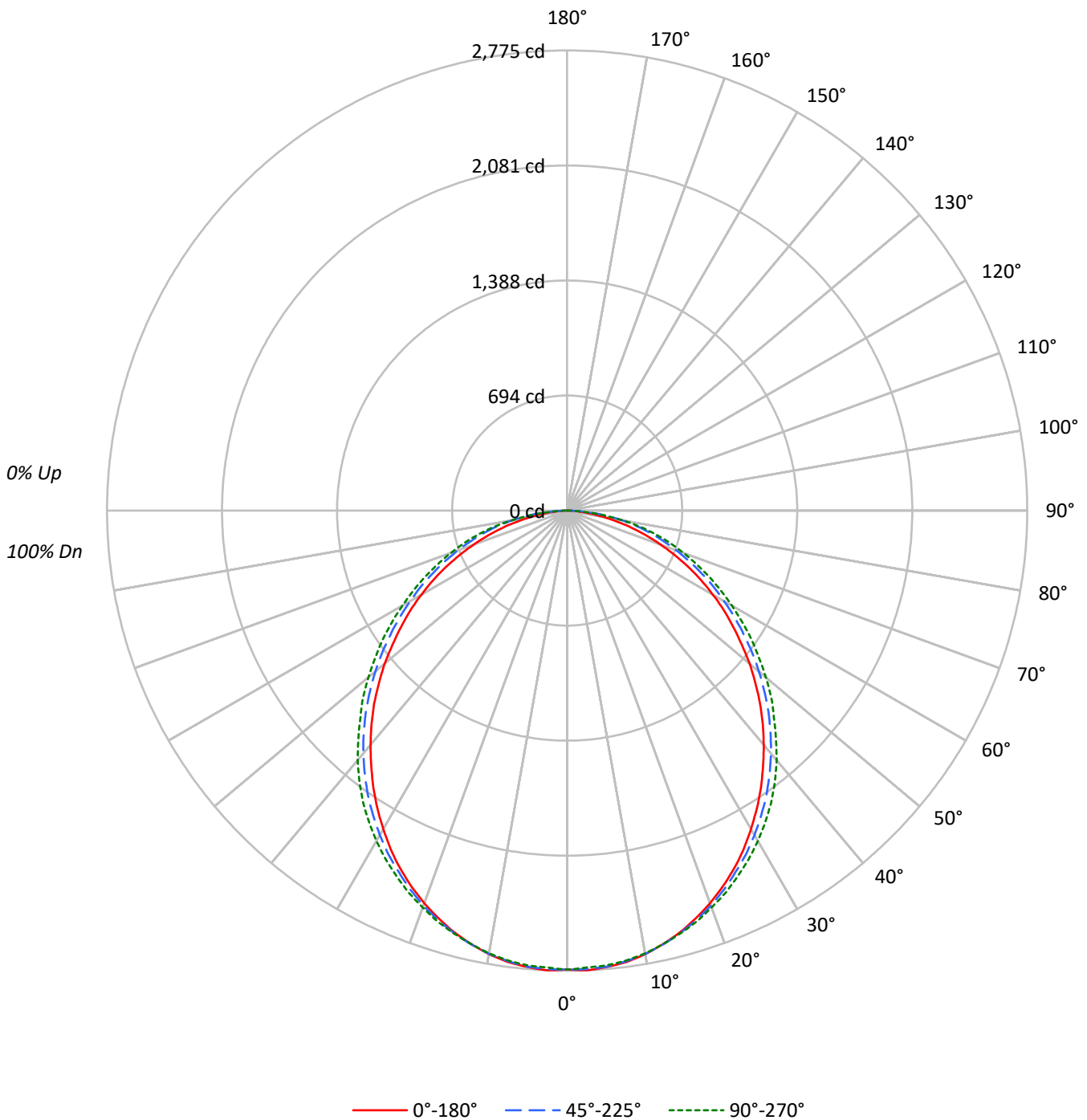
Lumens per Lamp: N/A
Luminaire Lumens: 7439.3 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 73.2
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°	3969	3969	3969
5°	3977	3973	3963
10°	3955	3951	3948
15°	3908	3915	3919
20°	3845	3867	3886
25°	3769	3804	3850
30°	3672	3741	3810
35°	3568	3667	3757
40°	3452	3581	3677
45°	3337	3481	3576
50°	3205	3369	3490
55°	3057	3248	3395
60°	2909	3134	3289
65°	2741	3033	3208
70°	2523	2934	3130
75°	2245	2857	3061
80°	1865	2758	2798
85°	1374	2303	2101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	3.5
10°-20°	742.5	10.0
20°-30°	1107.0	14.9
30°-40°	1306.0	17.6
40°-50°	1317.2	17.7
50°-60°	1157.1	15.6
60°-70°	875.5	11.8
70°-80°	525.3	7.1
80°-90°	147.1	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°	2111.2	28.4
0°-40°	3417.2	45.9
0°-60°	5891.5	79.2
0°-90°	7439.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7439.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2768	2768	2768	2768	2768	
5°	2763	2751	2760	2756	2753	262
15°	2633	2623	2638	2640	2640	742
25°	2382	2380	2404	2419	2434	1096
35°	2038	2043	2095	2127	2146	1274
45°	1646	1658	1717	1751	1763	1268
55°	1223	1250	1299	1336	1358	1095
65°	808	835	894	928	946	799
75°	405	452	516	545	553	430
85°	84	125	140	133	128	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2767.8	2767.8	2767.8	2767.8	2767.8
2.5°	2775.2	2760.4	2767.8	2767.8	2758.0
5°	2762.9	2750.6	2760.4	2755.5	2753.1
7.5°	2745.7	2731.0	2740.8	2738.3	2735.9
10°	2716.2	2701.5	2713.8	2711.3	2711.3
12.5°	2676.9	2667.1	2679.4	2676.9	2676.9
15°	2632.7	2622.9	2637.6	2640.1	2640.1
17.5°	2578.7	2571.3	2588.5	2593.4	2598.3
20°	2519.8	2514.8	2534.5	2536.9	2546.8
22.5°	2453.4	2448.5	2473.1	2482.9	2495.2
25°	2382.2	2379.8	2404.3	2419.1	2433.8
27.5°	2303.6	2303.6	2335.6	2355.2	2369.9
30°	2217.7	2222.6	2259.4	2284.0	2301.2
32.5°	2129.3	2136.6	2178.4	2207.9	2225.0
35°	2038.4	2043.3	2094.9	2126.8	2146.5
37.5°	1940.2	1952.4	2004.0	2038.4	2058.0
40°	1844.4	1856.7	1913.1	1945.1	1964.7
42.5°	1746.1	1758.4	1814.9	1851.7	1864.0
45°	1645.5	1657.7	1716.7	1751.1	1763.3
47.5°	1539.8	1559.5	1613.5	1647.9	1670.0
50°	1436.7	1453.9	1510.4	1544.8	1564.4
52.5°	1326.2	1350.7	1404.8	1439.2	1458.8
55°	1223.0	1250.1	1299.2	1336.0	1358.1
57.5°	1122.3	1144.4	1196.0	1232.9	1252.5
60°	1014.3	1041.3	1092.9	1127.3	1146.9
62.5°	911.1	938.2	994.6	1029.0	1046.2
65°	808.0	835.0	893.9	928.3	945.5
67.5°	702.4	734.3	795.7	830.1	844.8
70°	601.7	638.5	699.9	734.3	746.6
72.5°	501.0	542.8	606.6	638.5	650.8
75°	405.2	451.9	515.7	545.2	552.6
77.5°	311.9	363.5	424.9	449.4	451.9
80°	225.9	277.5	334.0	341.4	338.9
82.5°	147.4	201.4	238.2	230.9	230.9
85°	83.5	125.3	140.0	132.6	127.7
87.5°	36.8	54.0	49.1	41.8	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)