

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: P166509

Luminaire Tested: **24ALNG-LD4-74-UNV-L830-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166509
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-L830-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

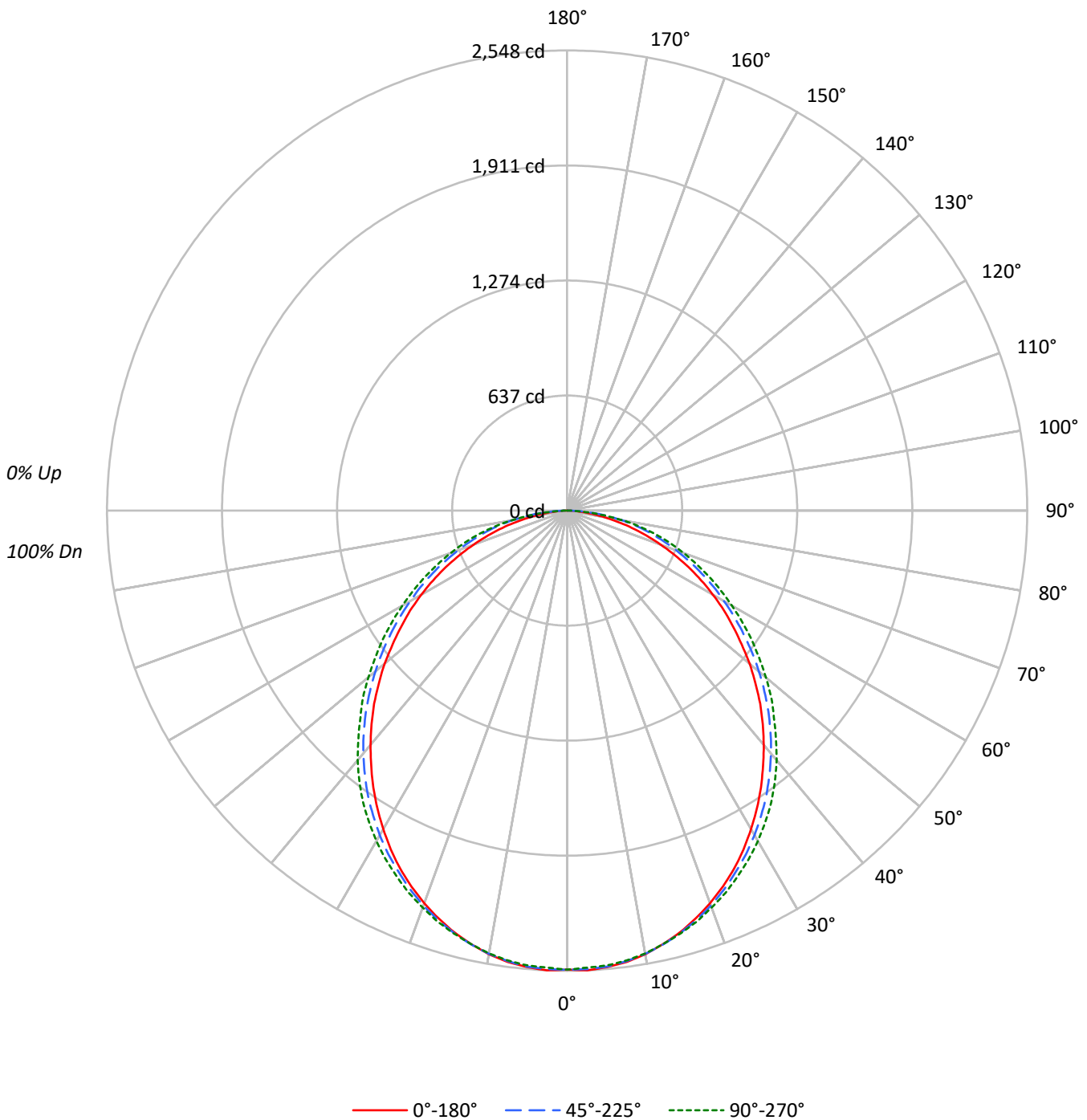
Lumens per Lamp: N/A
Luminaire Lumens: 6831.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	3644	3644	3644
5°	3652	3649	3639
10°	3632	3628	3625
15°	3589	3595	3599
20°	3531	3551	3569
25°	3461	3493	3536
30°	3372	3435	3499
35°	3277	3367	3450
40°	3170	3288	3377
45°	3064	3197	3283
50°	2943	3094	3205
55°	2808	2983	3118
60°	2671	2878	3020
65°	2517	2785	2946
70°	2316	2694	2874
75°	2061	2624	2812
80°	1713	2533	2570
85°	1262	2116	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	3.5
10°-20°	681.9	10.0
20°-30°	1016.5	14.9
30°-40°	1199.3	17.6
40°-50°	1209.5	17.7
50°-60°	1062.6	15.6
60°-70°	803.9	11.8
70°-80°	482.4	7.1
80°-90°	135.1	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°	1938.7	28.4
0°-40°	3138.0	45.9
0°-60°	5410.1	79.2
0°-90°	6831.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6831.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2537	2526	2535	2530	2528	241
15°	2418	2409	2422	2424	2424	681
25°	2188	2185	2208	2222	2235	1007
35°	1872	1876	1924	1953	1971	1170
45°	1511	1522	1576	1608	1619	1164
55°	1123	1148	1193	1227	1247	1005
65°	742	767	821	852	868	734
75°	372	415	474	501	508	395
85°	77	115	129	122	117	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2541.7	2541.7	2541.7	2541.7	2541.7
2.5°	2548.5	2534.9	2541.7	2541.7	2532.7
5°	2537.2	2525.9	2534.9	2530.4	2528.2
7.5°	2521.4	2507.9	2516.9	2514.6	2512.4
10°	2494.3	2480.8	2492.1	2489.8	2489.8
12.5°	2458.2	2449.2	2460.5	2458.2	2458.2
15°	2417.6	2408.6	2422.1	2424.4	2424.4
17.5°	2368.0	2361.2	2377.0	2381.5	2386.0
20°	2313.9	2309.3	2327.4	2329.6	2338.7
22.5°	2253.0	2248.5	2271.0	2280.0	2291.3
25°	2187.6	2185.4	2207.9	2221.5	2235.0
27.5°	2115.4	2115.4	2144.8	2162.8	2176.3
30°	2036.5	2041.0	2074.8	2097.4	2113.2
32.5°	1955.3	1962.0	2000.4	2027.5	2043.2
35°	1871.9	1876.4	1923.7	1953.0	1971.1
37.5°	1781.7	1792.9	1840.3	1871.9	1889.9
40°	1693.7	1705.0	1756.8	1786.2	1804.2
42.5°	1603.4	1614.7	1666.6	1700.4	1711.7
45°	1511.1	1522.3	1576.4	1608.0	1619.2
47.5°	1414.0	1432.1	1481.7	1513.3	1533.6
50°	1319.3	1335.1	1387.0	1418.6	1436.6
52.5°	1217.8	1240.3	1290.0	1321.6	1339.6
55°	1123.1	1148.0	1193.1	1226.8	1247.1
57.5°	1030.6	1050.9	1098.3	1132.2	1150.2
60°	931.4	956.2	1003.6	1035.2	1053.2
62.5°	836.7	861.5	913.3	944.9	960.7
65°	742.0	766.8	820.9	852.5	868.3
67.5°	645.0	674.3	730.7	762.3	775.8
70°	552.5	586.3	642.7	674.3	685.6
72.5°	460.1	498.5	557.0	586.3	597.6
75°	372.1	415.0	473.6	500.7	507.5
77.5°	286.4	333.8	390.2	412.7	415.0
80°	207.4	254.8	306.7	313.5	311.2
82.5°	135.4	184.9	218.7	212.0	212.0
85°	76.7	115.1	128.6	121.8	117.3
87.5°	33.8	49.6	45.1	38.4	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)