

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: P166518

Luminaire Tested: **24ALNG-LD4-67-UNV-L835-CD1-U**

Test Date: 03/08/15



**Test Information**

Test Method: LM-79-08  
Report Number: P166518  
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-LD4-67-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: -

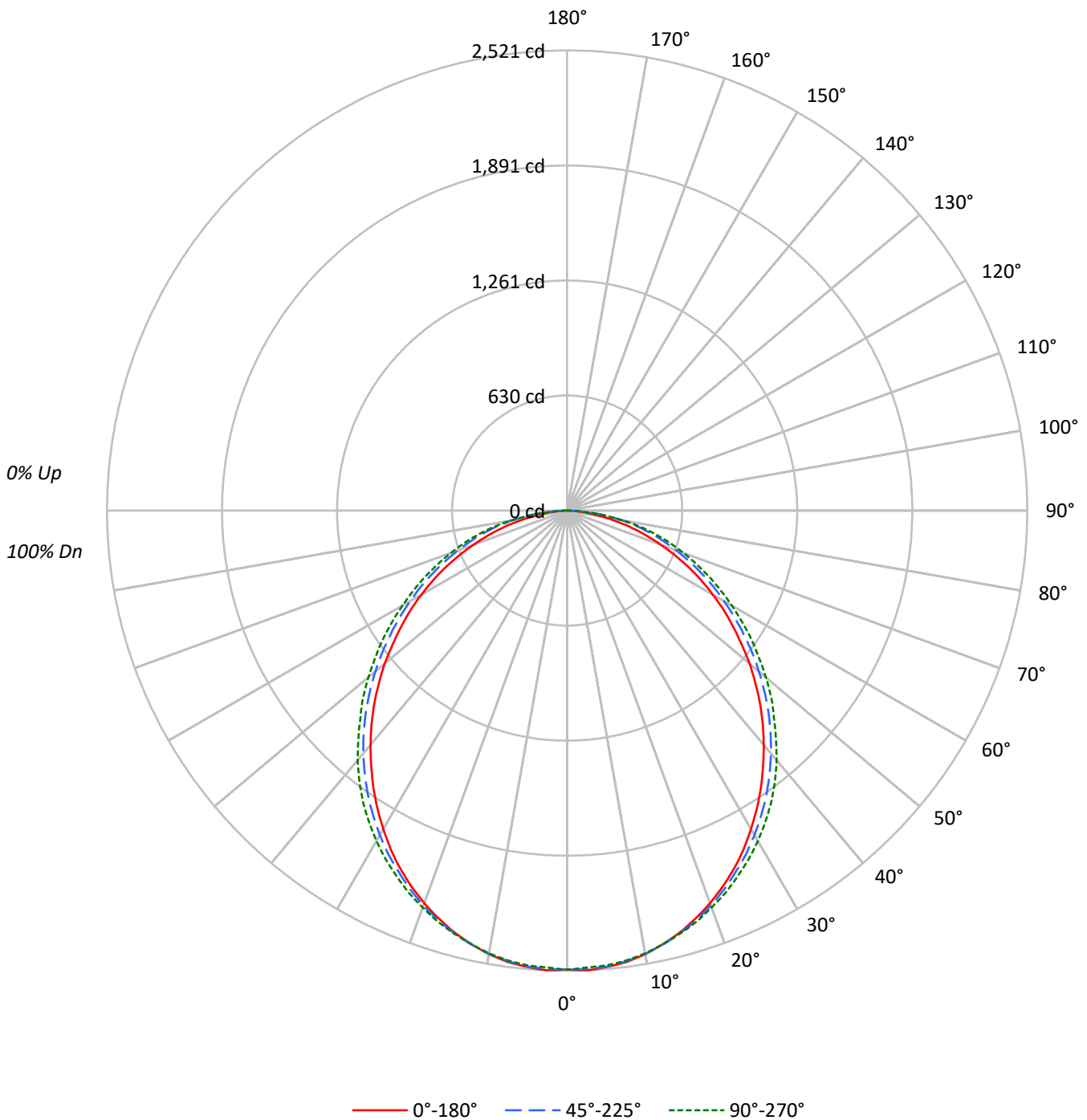
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6758.4 lumens  
Efficiency: N/A  
Efficacy: 104.6 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): 64.6  
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°	3605	3605	3605
5°	3613	3610	3600
10°	3593	3590	3586
15°	3550	3557	3560
20°	3493	3513	3530
25°	3424	3456	3498
30°	3336	3398	3461
35°	3241	3331	3413
40°	3136	3253	3341
45°	3031	3162	3248
50°	2911	3061	3170
55°	2778	2951	3084
60°	2642	2847	2988
65°	2490	2755	2914
70°	2292	2666	2844
75°	2039	2595	2781
80°	1695	2505	2542
85°	1249	2093	1908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.7	3.5
10°-20°	674.6	10.0
20°-30°	1005.7	14.9
30°-40°	1186.5	17.6
40°-50°	1196.6	17.7
50°-60°	1051.2	15.6
60°-70°	795.3	11.8
70°-80°	477.2	7.1
80°-90°	133.7	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°	1917.9	28.4
0°-40°	3104.4	45.9
0°-60°	5352.2	79.2
0°-90°	6758.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6758.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2510	2499	2508	2503	2501	238
15°	2392	2383	2396	2398	2398	674
25°	2164	2162	2184	2198	2211	996
35°	1852	1856	1903	1932	1950	1157
45°	1495	1506	1560	1591	1602	1152
55°	1111	1136	1180	1214	1234	995
65°	734	759	812	843	859	726
75°	368	410	468	495	502	391
85°	76	114	127	120	116	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2514.4	2514.4	2514.4	2514.4	2514.4
2.5°	2521.1	2507.8	2514.4	2514.4	2505.5
5°	2510.0	2498.8	2507.8	2503.3	2501.1
7.5°	2494.4	2481.0	2489.9	2487.7	2485.4
10°	2467.6	2454.2	2465.4	2463.1	2463.1
12.5°	2431.9	2423.0	2434.1	2431.9	2431.9
15°	2391.7	2382.8	2396.2	2398.4	2398.4
17.5°	2342.7	2336.0	2351.6	2356.0	2360.5
20°	2289.1	2284.6	2302.5	2304.7	2313.7
22.5°	2228.9	2224.4	2246.7	2255.6	2266.8
25°	2164.2	2161.9	2184.2	2197.6	2211.0
27.5°	2092.8	2092.8	2121.8	2139.6	2153.0
30°	2014.7	2019.1	2052.6	2074.9	2090.5
32.5°	1934.4	1941.1	1979.0	2005.8	2021.4
35°	1851.8	1856.3	1903.1	1932.1	1950.0
37.5°	1762.6	1773.7	1820.6	1851.8	1869.7
40°	1675.6	1686.7	1738.0	1767.0	1784.9
42.5°	1586.3	1597.5	1648.8	1682.2	1693.4
45°	1494.8	1506.0	1559.5	1590.8	1601.9
47.5°	1398.9	1416.7	1465.8	1497.1	1517.1
50°	1305.2	1320.8	1372.1	1403.4	1421.2
52.5°	1204.8	1227.1	1276.2	1307.4	1325.3
55°	1111.1	1135.6	1180.3	1213.7	1233.8
57.5°	1019.6	1039.7	1086.5	1120.0	1137.9
60°	921.4	946.0	992.8	1024.1	1041.9
62.5°	827.7	852.3	903.6	934.8	950.4
65°	734.0	758.6	812.1	843.4	859.0
67.5°	638.1	667.1	722.9	754.1	767.5
70°	546.6	580.1	635.9	667.1	678.3
72.5°	455.1	493.1	551.1	580.1	591.2
75°	368.1	410.5	468.5	495.3	502.0
77.5°	283.3	330.2	386.0	408.3	410.5
80°	205.3	252.1	303.4	310.1	307.9
82.5°	133.9	183.0	216.4	209.7	209.7
85°	75.9	113.8	127.2	120.5	116.0
87.5°	33.5	49.1	44.6	37.9	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)