

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: P166526

Luminaire Tested: **24ALNG-LD4-55-UNV-L840-CD1-U**

Test Date: 03/08/15



**Test Information**

Test Method: LM-79-08  
Report Number: P166526  
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-LD4-55-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: -

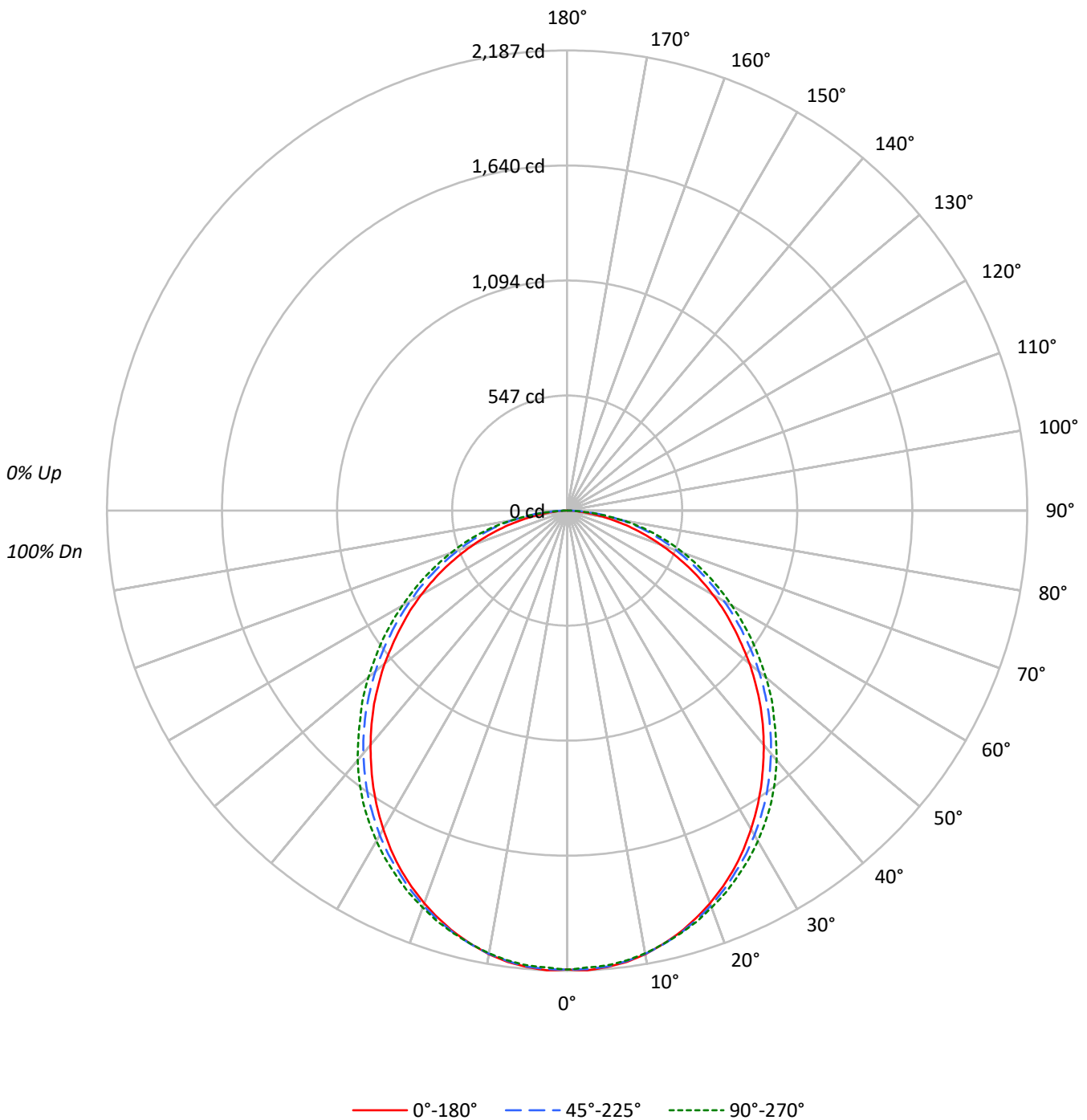
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5863.5 lumens  
Efficiency: N/A  
Efficacy: 115.2 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): 50.9  
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°	3128	3128	3128
5°	3134	3132	3123
10°	3117	3114	3111
15°	3080	3086	3089
20°	3030	3048	3063
25°	2971	2998	3035
30°	2894	2948	3003
35°	2812	2890	2961
40°	2721	2822	2899
45°	2630	2744	2818
50°	2526	2656	2750
55°	2410	2560	2676
60°	2293	2470	2592
65°	2161	2390	2528
70°	1988	2313	2467
75°	1769	2252	2413
80°	1471	2174	2206
85°	1084	1815	1655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.2	3.5
10°-20°	585.3	10.0
20°-30°	872.5	14.9
30°-40°	1029.4	17.6
40°-50°	1038.1	17.7
50°-60°	912.0	15.6
60°-70°	690.0	11.8
70°-80°	414.0	7.1
80°-90°	116.0	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°	1664.0	28.4
0°-40°	2693.3	45.9
0°-60°	4643.5	79.2
0°-90°	5863.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5863.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2178	2168	2176	2172	2170	207
15°	2075	2067	2079	2081	2081	585
25°	1878	1876	1895	1907	1918	864
35°	1607	1610	1651	1676	1692	1004
45°	1297	1307	1353	1380	1390	999
55°	964	985	1024	1053	1070	863
65°	637	658	704	732	745	630
75°	319	356	406	430	436	339
85°	66	99	110	104	101	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2181.5	2181.5	2181.5	2181.5	2181.5
2.5°	2187.3	2175.7	2181.5	2181.5	2173.8
5°	2177.6	2168.0	2175.7	2171.8	2169.9
7.5°	2164.1	2152.5	2160.2	2158.3	2156.3
10°	2140.8	2129.2	2138.9	2137.0	2137.0
12.5°	2109.8	2102.1	2111.8	2109.8	2109.8
15°	2075.1	2067.3	2079.0	2080.9	2080.9
17.5°	2032.5	2026.6	2040.2	2044.1	2048.0
20°	1986.0	1982.1	1997.6	1999.5	2007.3
22.5°	1933.8	1929.9	1949.3	1957.0	1966.6
25°	1877.6	1875.6	1895.0	1906.6	1918.3
27.5°	1815.7	1815.7	1840.8	1856.3	1867.9
30°	1747.9	1751.8	1780.8	1800.2	1813.8
32.5°	1678.3	1684.1	1716.9	1740.1	1753.7
35°	1606.6	1610.5	1651.1	1676.3	1691.8
37.5°	1529.2	1538.9	1579.6	1606.6	1622.1
40°	1453.7	1463.3	1507.9	1533.1	1548.6
42.5°	1376.2	1385.9	1430.5	1459.4	1469.1
45°	1296.9	1306.6	1353.0	1380.1	1389.8
47.5°	1213.6	1229.1	1271.7	1298.9	1316.3
50°	1132.4	1145.9	1190.5	1217.5	1233.0
52.5°	1045.3	1064.7	1107.2	1134.3	1149.8
55°	963.9	985.2	1024.0	1053.0	1070.5
57.5°	884.6	902.0	942.7	971.7	987.2
60°	799.5	820.8	861.4	888.5	904.0
62.5°	718.1	739.4	784.0	811.1	824.5
65°	636.8	658.1	704.5	731.7	745.2
67.5°	553.6	578.7	627.2	654.3	665.9
70°	474.2	503.3	551.7	578.7	588.4
72.5°	394.9	427.8	478.1	503.3	513.0
75°	319.3	356.1	406.5	429.8	435.6
77.5°	245.8	286.5	334.8	354.2	356.1
80°	178.1	218.7	263.3	269.1	267.1
82.5°	116.1	158.8	187.8	182.0	182.0
85°	65.9	98.7	110.3	104.5	100.6
87.5°	29.1	42.6	38.7	32.9	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)