

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: P166505

Luminaire Tested: **24ALNG-LD4-50-UNV-L830-CD1-U**

Test Date: 03/08/15



**Test Information**

Test Method: LM-79-08  
Report Number: P166505  
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-LD4-50-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: -

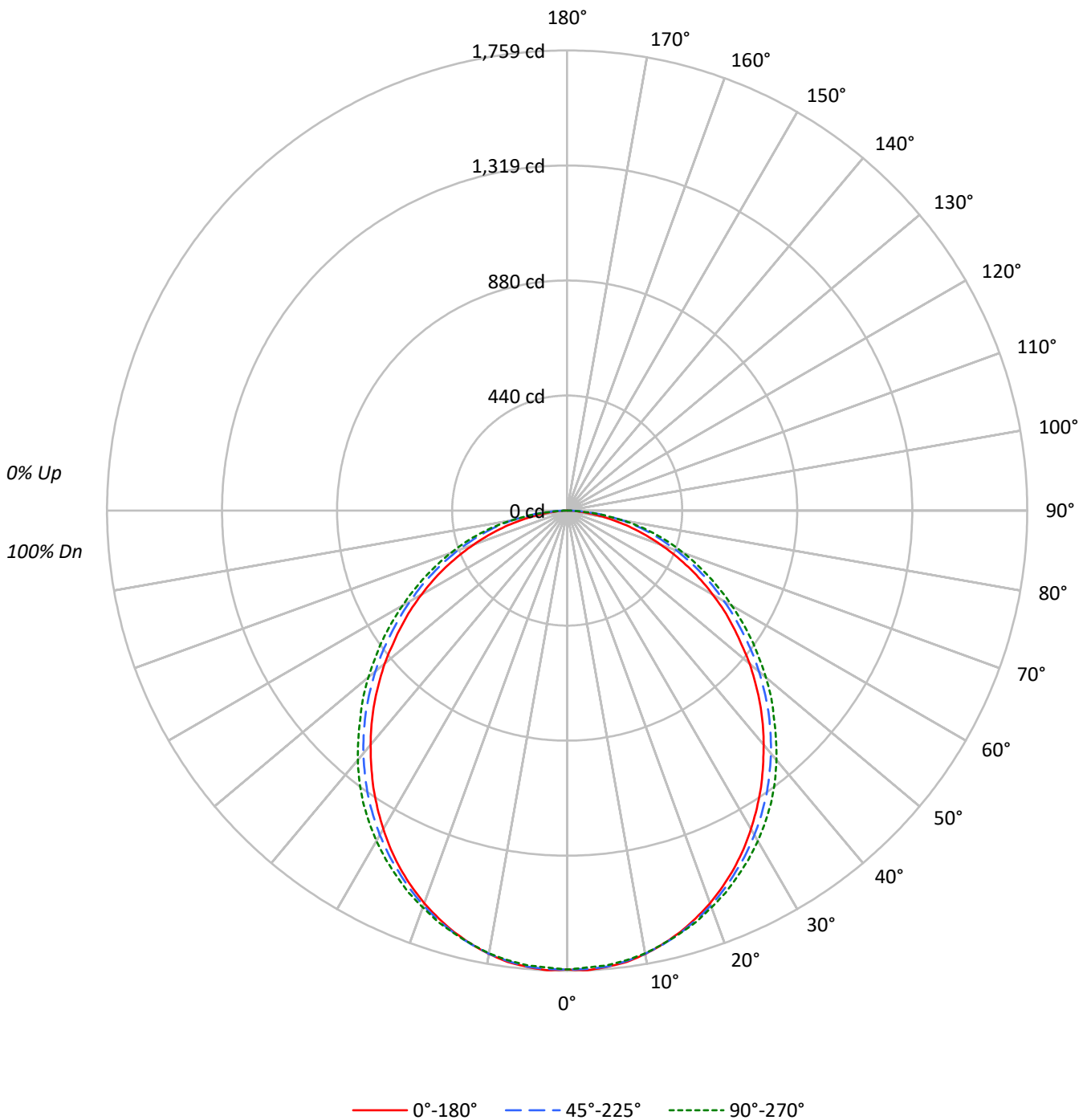
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4714.7 lumens  
Efficiency: N/A  
Efficacy: 99.0 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): 47.6  
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°	2515	2515	2515
5°	2520	2518	2511
10°	2506	2504	2502
15°	2477	2481	2484
20°	2437	2451	2463
25°	2389	2411	2440
30°	2327	2371	2415
35°	2261	2324	2381
40°	2188	2269	2331
45°	2115	2206	2266
50°	2031	2135	2212
55°	1938	2058	2152
60°	1843	1986	2084
65°	1737	1922	2033
70°	1599	1859	1983
75°	1423	1810	1940
80°	1182	1748	1774
85°	870	1459	1331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	3.5
10°-20°	470.6	10.0
20°-30°	701.6	14.9
30°-40°	827.7	17.6
40°-50°	834.8	17.7
50°-60°	733.3	15.6
60°-70°	554.8	11.8
70°-80°	332.9	7.1
80°-90°	93.2	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°	1337.9	28.4
0°-40°	2165.6	45.9
0°-60°	3733.7	79.2
0°-90°	4714.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4714.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1751	1743	1750	1746	1745	166
15°	1668	1662	1672	1673	1673	470
25°	1510	1508	1524	1533	1542	695
35°	1292	1295	1328	1348	1360	807
45°	1043	1051	1088	1110	1118	804
55°	775	792	823	847	861	694
65°	512	529	566	588	599	506
75°	257	286	327	346	350	273
85°	53	79	89	84	81	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	1758.7	1749.5	1754.1	1754.1	1747.9
5°	1751.0	1743.2	1749.5	1746.3	1744.8
7.5°	1740.1	1730.7	1737.0	1735.4	1733.8
10°	1721.4	1712.1	1719.9	1718.3	1718.3
12.5°	1696.5	1690.3	1698.0	1696.5	1696.5
15°	1668.5	1662.3	1671.6	1673.1	1673.1
17.5°	1634.2	1629.6	1640.5	1643.6	1646.7
20°	1596.9	1593.8	1606.2	1607.8	1614.0
22.5°	1554.9	1551.7	1567.4	1573.5	1581.3
25°	1509.8	1508.2	1523.7	1533.1	1542.4
27.5°	1459.9	1459.9	1480.1	1492.6	1502.0
30°	1405.5	1408.6	1431.9	1447.5	1458.4
32.5°	1349.4	1354.1	1380.6	1399.2	1410.1
35°	1291.9	1295.0	1327.6	1347.9	1360.3
37.5°	1229.6	1237.3	1270.0	1291.9	1304.3
40°	1168.9	1176.6	1212.4	1232.7	1245.1
42.5°	1106.6	1114.4	1150.2	1173.6	1181.3
45°	1042.8	1050.6	1087.9	1109.8	1117.5
47.5°	975.9	988.4	1022.5	1044.4	1058.3
50°	910.5	921.4	957.2	979.0	991.5
52.5°	840.4	856.0	890.3	912.1	924.5
55°	775.1	792.2	823.3	846.7	860.7
57.5°	711.3	725.3	758.0	781.3	793.8
60°	642.8	659.9	692.6	714.4	726.8
62.5°	577.4	594.6	630.3	652.2	663.0
65°	512.0	529.2	566.5	588.4	599.2
67.5°	445.1	465.4	504.2	526.1	535.4
70°	381.4	404.7	443.5	465.4	473.1
72.5°	317.5	344.0	384.4	404.7	412.4
75°	256.8	286.4	326.8	345.6	350.2
77.5°	197.7	230.3	269.2	284.9	286.4
80°	143.2	175.9	211.7	216.4	214.8
82.5°	93.4	127.6	151.0	146.3	146.3
85°	52.9	79.3	88.7	84.0	80.9
87.5°	23.3	34.3	31.1	26.4	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)