

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: P166515

Luminaire Tested: **24ALNG-LD4-50-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166515
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-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

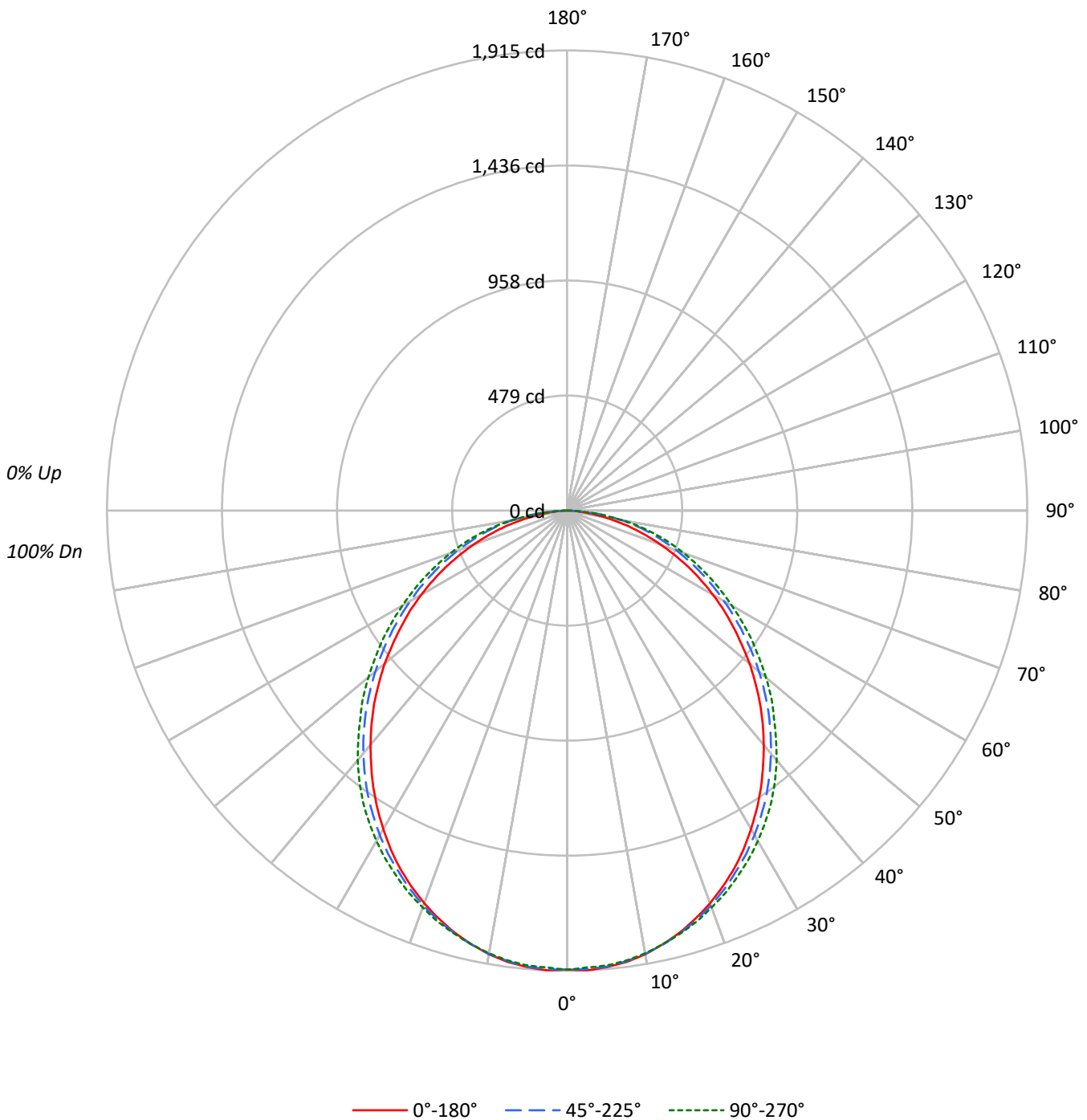
Lumens per Lamp: N/A
Luminaire Lumens: 5134.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2739	2739	2739
5°	2745	2742	2735
10°	2729	2727	2724
15°	2697	2702	2705
20°	2654	2669	2682
25°	2601	2625	2657
30°	2534	2582	2629
35°	2462	2531	2593
40°	2383	2471	2538
45°	2303	2402	2468
50°	2212	2325	2408
55°	2110	2241	2343
60°	2007	2163	2270
65°	1892	2093	2214
70°	1741	2025	2160
75°	1550	1972	2113
80°	1287	1903	1931
85°	948	1589	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.5
10°-20°	512.5	10.0
20°-30°	764.0	14.9
30°-40°	901.3	17.6
40°-50°	909.0	17.7
50°-60°	798.6	15.6
60°-70°	604.2	11.8
70°-80°	362.5	7.1
80°-90°	101.5	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°	1457.0	28.4
0°-40°	2358.3	45.9
0°-60°	4065.9	79.2
0°-90°	5134.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5134.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1907	1898	1905	1902	1900	181
15°	1817	1810	1820	1822	1822	512
25°	1644	1642	1659	1670	1680	756
35°	1407	1410	1446	1468	1481	879
45°	1136	1144	1185	1208	1217	875
55°	844	863	897	922	937	756
65°	558	576	617	641	652	551
75°	280	312	356	376	381	297
85°	58	86	97	92	88	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1915.2	1905.1	1910.2	1910.2	1903.4
5°	1906.8	1898.3	1905.1	1901.7	1900.0
7.5°	1894.9	1884.7	1891.5	1889.8	1888.1
10°	1874.6	1864.4	1872.9	1871.2	1871.2
12.5°	1847.4	1840.7	1849.1	1847.4	1847.4
15°	1816.9	1810.2	1820.3	1822.0	1822.0
17.5°	1779.6	1774.6	1786.4	1789.8	1793.2
20°	1739.0	1735.6	1749.1	1750.8	1757.6
22.5°	1693.2	1689.8	1706.8	1713.5	1722.0
25°	1644.1	1642.4	1659.3	1669.5	1679.6
27.5°	1589.8	1589.8	1611.8	1625.4	1635.6
30°	1530.5	1533.9	1559.3	1576.3	1588.1
32.5°	1469.5	1474.6	1503.4	1523.7	1535.6
35°	1406.8	1410.2	1445.7	1467.8	1481.3
37.5°	1339.0	1347.4	1383.0	1406.8	1420.3
40°	1272.9	1281.3	1320.3	1342.4	1355.9
42.5°	1205.1	1213.5	1252.5	1278.0	1286.4
45°	1135.6	1144.1	1184.7	1208.5	1216.9
47.5°	1062.7	1076.3	1113.5	1137.3	1152.5
50°	991.5	1003.4	1042.4	1066.1	1079.7
52.5°	915.2	932.2	969.5	993.2	1006.8
55°	844.1	862.7	896.6	922.0	937.3
57.5°	774.6	789.8	825.4	850.8	864.4
60°	700.0	718.6	754.2	778.0	791.5
62.5°	628.8	647.5	686.4	710.2	722.0
65°	557.6	576.3	616.9	640.7	652.5
67.5°	484.7	506.8	549.1	572.9	583.0
70°	415.3	440.7	483.0	506.8	515.2
72.5°	345.8	374.6	418.6	440.7	449.1
75°	279.7	311.9	355.9	376.3	381.4
77.5°	215.3	250.8	293.2	310.2	311.9
80°	155.9	191.5	230.5	235.6	233.9
82.5°	101.7	139.0	164.4	159.3	159.3
85°	57.6	86.4	96.6	91.5	88.1
87.5°	25.4	37.3	33.9	28.8	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)