

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: P166514

Luminaire Tested: **24ALNG-LD4-45-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166514
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-LD4-45-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

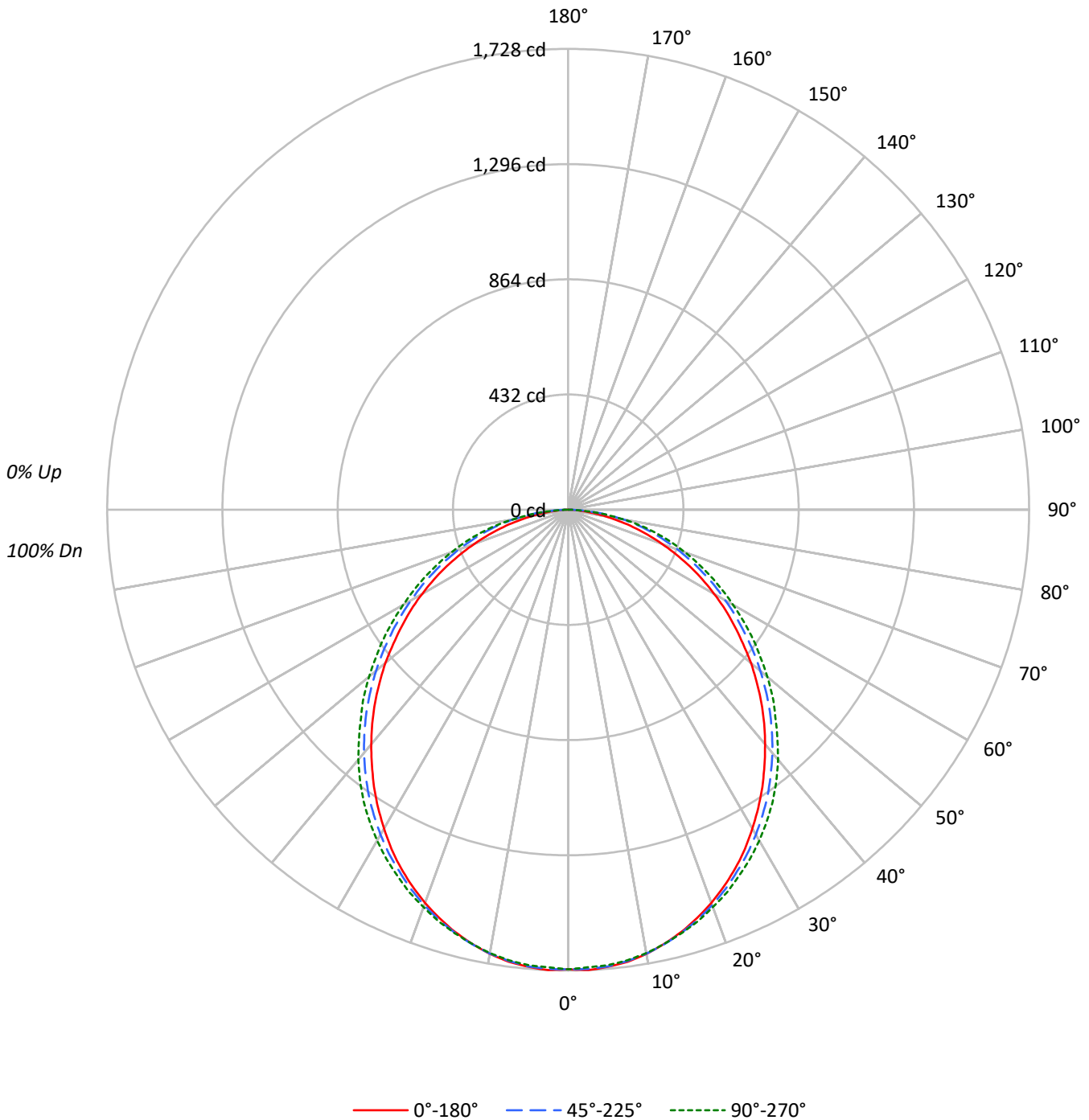
Lumens per Lamp: N/A
Luminaire Lumens: 4632.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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°	2471	2471	2471
5°	2476	2474	2467
10°	2462	2460	2458
15°	2433	2438	2440
20°	2394	2408	2420
25°	2347	2369	2397
30°	2286	2329	2372
35°	2222	2283	2339
40°	2150	2230	2290
45°	2078	2167	2227
50°	1996	2098	2173
55°	1904	2022	2114
60°	1811	1951	2048
65°	1707	1888	1997
70°	1571	1827	1949
75°	1398	1779	1906
80°	1162	1718	1742
85°	855	1435	1308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.5
10°-20°	462.4	10.0
20°-30°	689.3	14.9
30°-40°	813.2	17.6
40°-50°	820.2	17.7
50°-60°	720.5	15.6
60°-70°	545.1	11.8
70°-80°	327.1	7.1
80°-90°	91.6	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°	1314.5	28.4
0°-40°	2127.8	45.9
0°-60°	3668.4	79.2
0°-90°	4632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4632.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1720	1713	1719	1716	1714	163
15°	1639	1633	1642	1644	1644	462
25°	1483	1482	1497	1506	1515	683
35°	1269	1272	1304	1324	1336	793
45°	1025	1032	1069	1090	1098	790
55°	762	778	809	832	846	682
65°	503	520	557	578	589	497
75°	252	281	321	340	344	268
85°	52	78	87	83	80	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.4	1723.4	1723.4	1723.4	1723.4
2.5°	1728.0	1718.8	1723.4	1723.4	1717.3
5°	1720.4	1712.7	1718.8	1715.8	1714.2
7.5°	1709.6	1700.5	1706.6	1705.1	1703.5
10°	1691.3	1682.1	1689.8	1688.2	1688.2
12.5°	1666.8	1660.7	1668.4	1666.8	1666.8
15°	1639.3	1633.2	1642.4	1643.9	1643.9
17.5°	1605.7	1601.1	1611.8	1614.8	1617.9
20°	1569.0	1565.9	1578.1	1579.7	1585.8
22.5°	1527.7	1524.6	1539.9	1546.0	1553.7
25°	1483.3	1481.8	1497.1	1506.3	1515.4
27.5°	1434.4	1434.4	1454.3	1466.5	1475.7
30°	1380.9	1383.9	1406.9	1422.2	1432.9
32.5°	1325.8	1330.4	1356.4	1374.8	1385.5
35°	1269.2	1272.3	1304.4	1324.3	1336.5
37.5°	1208.1	1215.7	1247.8	1269.2	1281.5
40°	1148.4	1156.1	1191.2	1211.1	1223.4
42.5°	1087.3	1094.9	1130.1	1153.0	1160.7
45°	1024.6	1032.2	1068.9	1090.3	1098.0
47.5°	958.8	971.0	1004.7	1026.1	1039.9
50°	894.6	905.3	940.5	961.9	974.1
52.5°	825.8	841.1	874.7	896.1	908.3
55°	761.5	778.4	808.9	831.9	845.6
57.5°	698.8	712.6	744.7	767.7	779.9
60°	631.6	648.4	680.5	701.9	714.1
62.5°	567.3	584.2	619.3	640.7	651.4
65°	503.1	519.9	556.6	578.0	588.7
67.5°	437.4	457.2	495.5	516.9	526.0
70°	374.7	397.6	435.8	457.2	464.9
72.5°	312.0	338.0	377.7	397.6	405.2
75°	252.3	281.4	321.1	339.5	344.1
77.5°	194.2	226.3	264.6	279.8	281.4
80°	140.7	172.8	208.0	212.6	211.0
82.5°	91.8	125.4	148.3	143.7	143.7
85°	52.0	78.0	87.2	82.6	79.5
87.5°	22.9	33.6	30.6	26.0	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)