

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: P166524

Luminaire Tested: **24ALNG-LD4-45-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166524
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-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

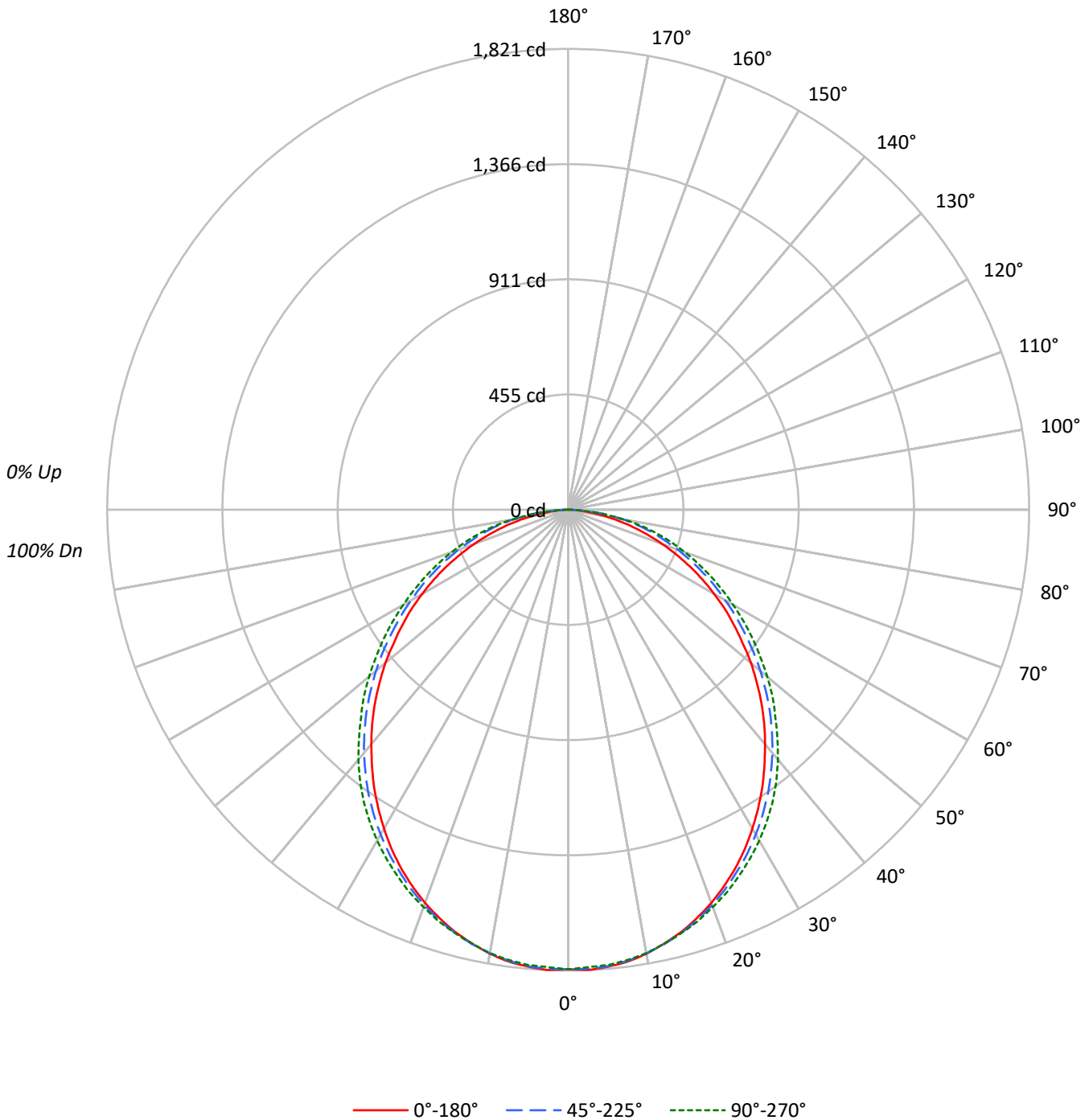
Lumens per Lamp: N/A
Luminaire Lumens: 4880.5 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2604	2604	2604
5°	2609	2606	2600
10°	2595	2592	2590
15°	2564	2569	2571
20°	2522	2537	2549
25°	2472	2495	2526
30°	2409	2454	2500
35°	2341	2406	2465
40°	2265	2349	2413
45°	2189	2284	2346
50°	2103	2210	2289
55°	2006	2131	2227
60°	1908	2056	2158
65°	1799	1990	2105
70°	1655	1925	2053
75°	1473	1874	2008
80°	1224	1809	1836
85°	902	1512	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.5
10°-20°	487.1	10.0
20°-30°	726.2	14.9
30°-40°	856.8	17.6
40°-50°	864.1	17.7
50°-60°	759.1	15.6
60°-70°	574.3	11.8
70°-80°	344.6	7.1
80°-90°	96.5	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°	1385.0	28.4
0°-40°	2241.8	45.9
0°-60°	3865.0	79.2
0°-90°	4880.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4880.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1813	1804	1811	1808	1806	172
15°	1727	1721	1730	1732	1732	487
25°	1563	1561	1577	1587	1597	719
35°	1337	1340	1374	1395	1408	836
45°	1080	1088	1126	1149	1157	832
55°	802	820	852	876	891	718
65°	530	548	586	609	620	524
75°	266	296	338	358	362	282
85°	55	82	92	87	84	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.8	1815.8	1815.8	1815.8	1815.8
2.5°	1820.6	1810.9	1815.8	1815.8	1809.3
5°	1812.6	1804.5	1810.9	1807.8	1806.1
7.5°	1801.2	1791.6	1798.1	1796.5	1794.8
10°	1782.0	1772.3	1780.4	1778.7	1778.7
12.5°	1756.1	1749.7	1757.8	1756.1	1756.1
15°	1727.2	1720.7	1730.4	1732.0	1732.0
17.5°	1691.8	1686.9	1698.2	1701.4	1704.6
20°	1653.1	1649.8	1662.7	1664.4	1670.8
22.5°	1609.6	1606.3	1622.4	1628.9	1637.0
25°	1562.8	1561.2	1577.3	1587.0	1596.6
27.5°	1511.3	1511.3	1532.3	1545.1	1554.8
30°	1454.9	1458.1	1482.3	1498.4	1509.7
32.5°	1396.9	1401.7	1429.1	1448.5	1459.8
35°	1337.2	1340.5	1374.3	1395.3	1408.1
37.5°	1272.9	1280.9	1314.7	1337.2	1350.2
40°	1210.0	1218.1	1255.0	1276.0	1289.0
42.5°	1145.6	1153.6	1190.7	1214.8	1222.9
45°	1079.5	1087.5	1126.2	1148.7	1156.9
47.5°	1010.2	1023.0	1058.6	1081.1	1095.6
50°	942.6	953.8	990.9	1013.5	1026.3
52.5°	870.1	886.2	921.6	944.1	957.0
55°	802.3	820.1	852.3	876.5	890.9
57.5°	736.3	750.8	784.6	808.8	821.7
60°	665.5	683.2	717.0	739.5	752.4
62.5°	597.7	615.5	652.5	675.0	686.3
65°	530.1	547.8	586.4	609.0	620.3
67.5°	460.8	481.7	522.1	544.6	554.2
70°	394.8	418.9	459.2	481.7	489.8
72.5°	328.7	356.1	397.9	418.9	426.9
75°	265.8	296.5	338.3	357.7	362.5
77.5°	204.6	238.4	278.8	294.8	296.5
80°	148.2	182.1	219.1	224.0	222.3
82.5°	96.7	132.1	156.2	151.4	151.4
85°	54.8	82.2	91.9	87.0	83.8
87.5°	24.1	35.4	32.2	27.4	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)