

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: P166522

Luminaire Tested: **24ALNG-LD4-36-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166522
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-LD4-36-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

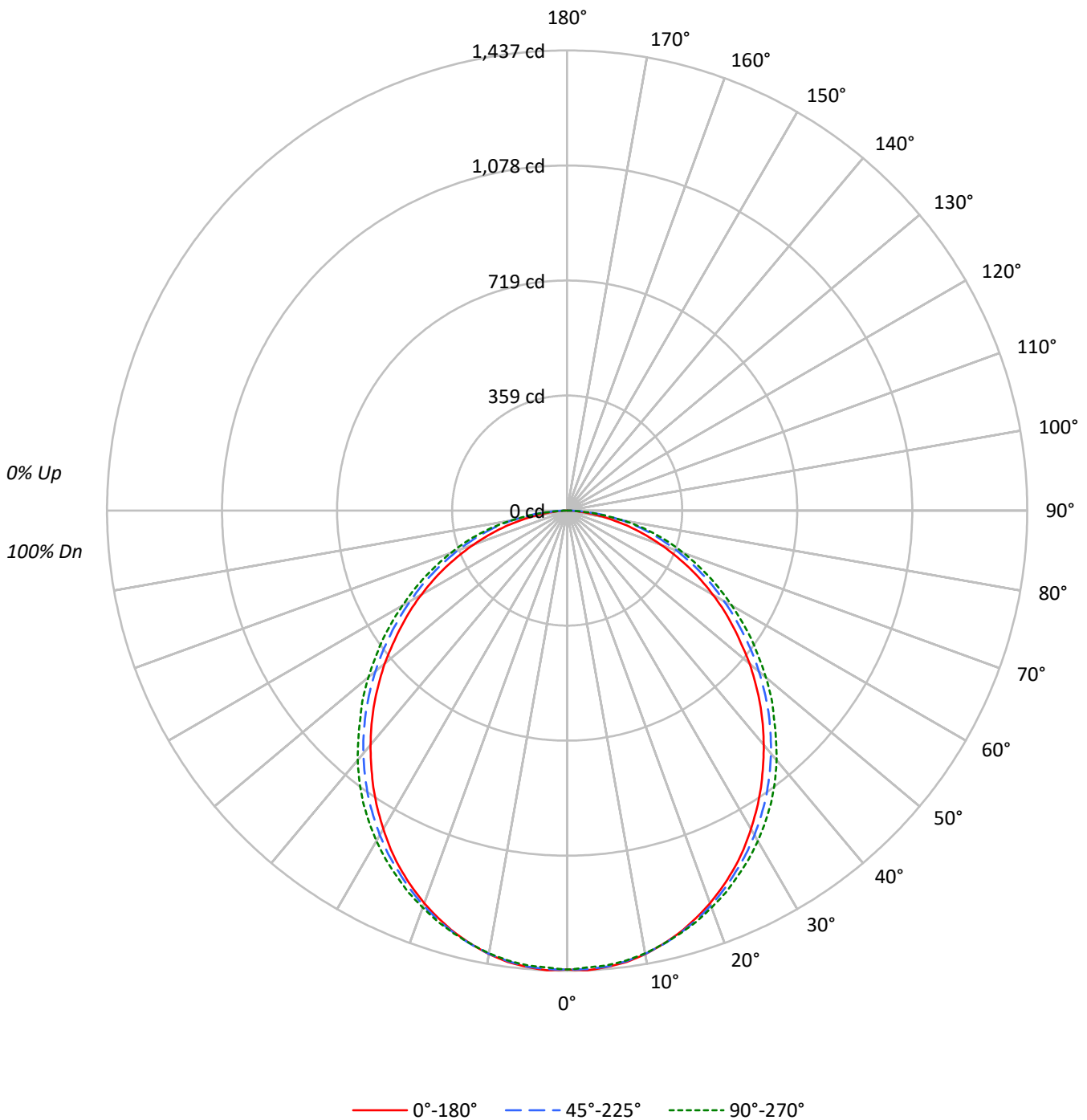
Lumens per Lamp: N/A
Luminaire Lumens: 3852.2 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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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CATALOG NUMBER: 24ALNG-LD4-36-UNV-L840-CD1-U

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°	2055	2055	2055
5°	2059	2057	2052
10°	2048	2046	2044
15°	2024	2027	2029
20°	1991	2003	2012
25°	1952	1970	1994
30°	1901	1937	1973
35°	1848	1899	1945
40°	1788	1854	1904
45°	1728	1802	1851
50°	1659	1745	1807
55°	1583	1682	1758
60°	1506	1623	1703
65°	1420	1570	1661
70°	1306	1519	1621
75°	1163	1480	1586
80°	965	1429	1449
85°	711	1193	1089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.5
10°-20°	384.5	10.0
20°-30°	573.2	14.9
30°-40°	676.3	17.6
40°-50°	682.0	17.7
50°-60°	599.2	15.6
60°-70°	453.3	11.8
70°-80°	272.0	7.1
80°-90°	76.2	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°	1093.2	28.4
0°-40°	1769.5	45.9
0°-60°	3050.7	79.2
0°-90°	3852.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1431	1424	1429	1427	1426	136
15°	1363	1358	1366	1367	1367	384
25°	1234	1232	1245	1253	1260	568
35°	1056	1058	1085	1101	1111	659
45°	852	858	889	907	913	657
55°	633	647	673	692	703	567
65°	418	432	463	481	490	414
75°	210	234	267	282	286	223
85°	43	65	72	69	66	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1437.0	1429.4	1433.2	1433.2	1428.2
5°	1430.7	1424.3	1429.4	1426.9	1425.5
7.5°	1421.7	1414.1	1419.2	1417.9	1416.7
10°	1406.5	1398.9	1405.2	1403.9	1403.9
12.5°	1386.1	1381.1	1387.4	1386.1	1386.1
15°	1363.3	1358.2	1365.8	1367.0	1367.0
17.5°	1335.3	1331.4	1340.4	1342.9	1345.4
20°	1304.8	1302.2	1312.4	1313.6	1318.8
22.5°	1270.4	1267.9	1280.5	1285.7	1292.0
25°	1233.6	1232.3	1245.0	1252.6	1260.2
27.5°	1192.9	1192.9	1209.4	1219.5	1227.2
30°	1148.3	1150.8	1169.9	1182.7	1191.6
32.5°	1102.6	1106.4	1128.0	1143.3	1152.1
35°	1055.5	1058.0	1084.8	1101.3	1111.4
37.5°	1004.6	1011.0	1037.7	1055.5	1065.7
40°	955.1	961.4	990.7	1007.1	1017.4
42.5°	904.2	910.5	939.8	958.9	965.2
45°	852.0	858.4	888.9	906.7	913.0
47.5°	797.4	807.5	835.5	853.3	864.8
50°	743.9	752.8	782.1	799.9	810.1
52.5°	686.7	699.4	727.4	745.2	755.4
55°	633.3	647.3	672.7	691.8	703.3
57.5°	581.2	592.7	619.3	638.4	648.6
60°	525.2	539.2	565.9	583.7	593.9
62.5°	471.8	485.8	515.0	532.8	541.8
65°	418.4	432.4	462.8	480.7	489.6
67.5°	363.7	380.2	412.1	429.9	437.5
70°	311.5	330.6	362.4	380.2	386.6
72.5°	259.4	281.0	314.1	330.6	337.0
75°	209.9	234.0	267.1	282.4	286.2
77.5°	161.5	188.2	220.0	232.7	234.0
80°	116.9	143.7	173.0	176.8	175.5
82.5°	76.3	104.3	123.4	119.6	119.6
85°	43.2	64.9	72.5	68.7	66.2
87.5°	19.1	28.0	25.4	21.6	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)