

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: P166523

Luminaire Tested: **24ALNG-LD4-42-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166523
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-LD4-42-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

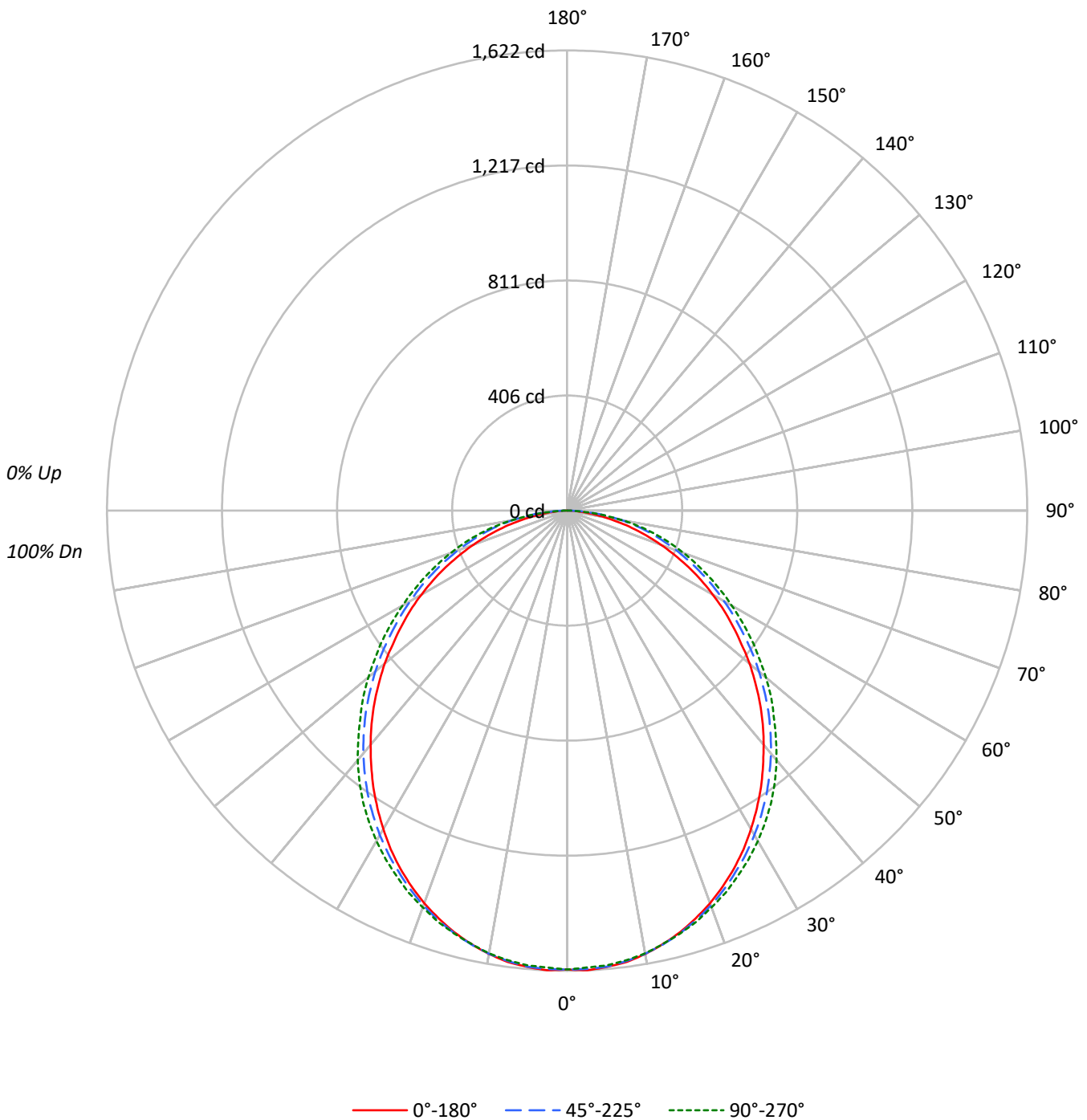
Lumens per Lamp: N/A
Luminaire Lumens: 4347.5 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 36.4
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°	2319	2319	2319
5°	2324	2322	2316
10°	2311	2309	2307
15°	2284	2288	2290
20°	2247	2260	2271
25°	2202	2223	2250
30°	2146	2186	2227
35°	2085	2143	2196
40°	2017	2093	2149
45°	1950	2034	2090
50°	1873	1969	2039
55°	1787	1898	1984
60°	1700	1832	1922
65°	1602	1772	1875
70°	1474	1715	1829
75°	1312	1670	1789
80°	1090	1612	1636
85°	803	1346	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.5
10°-20°	433.9	10.0
20°-30°	646.9	14.9
30°-40°	763.2	17.6
40°-50°	769.8	17.7
50°-60°	676.2	15.6
60°-70°	511.6	11.8
70°-80°	307.0	7.1
80°-90°	86.0	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°	1233.8	28.4
0°-40°	1997.0	45.9
0°-60°	3443.0	79.2
0°-90°	4347.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1615	1608	1613	1610	1609	153
15°	1539	1533	1541	1543	1543	433
25°	1392	1391	1405	1414	1422	641
35°	1191	1194	1224	1243	1254	744
45°	962	969	1003	1023	1030	741
55°	715	731	759	781	794	640
65°	472	488	522	542	552	467
75°	237	264	301	319	323	251
85°	49	73	82	78	75	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1621.8	1613.2	1617.5	1617.5	1611.8
5°	1614.6	1607.5	1613.2	1610.3	1608.8
7.5°	1604.5	1596.0	1601.7	1600.3	1598.8
10°	1587.4	1578.7	1585.9	1584.5	1584.5
12.5°	1564.4	1558.6	1565.9	1564.4	1564.4
15°	1538.6	1532.8	1541.4	1542.9	1542.9
17.5°	1507.0	1502.6	1512.8	1515.6	1518.4
20°	1472.5	1469.7	1481.2	1482.6	1488.3
22.5°	1433.7	1430.9	1445.2	1451.0	1458.2
25°	1392.1	1390.8	1405.1	1413.7	1422.3
27.5°	1346.2	1346.2	1364.9	1376.3	1385.0
30°	1296.0	1298.9	1320.4	1334.7	1344.8
32.5°	1244.3	1248.6	1273.1	1290.2	1300.4
35°	1191.2	1194.2	1224.3	1242.9	1254.4
37.5°	1133.8	1140.9	1171.2	1191.2	1202.7
40°	1077.8	1085.0	1118.1	1136.7	1148.2
42.5°	1020.4	1027.6	1060.7	1082.2	1089.3
45°	961.6	968.8	1003.2	1023.3	1030.5
47.5°	899.9	911.4	943.0	963.0	975.9
50°	839.6	849.6	882.7	902.7	914.2
52.5°	775.0	789.4	821.0	841.0	852.5
55°	714.8	730.6	759.2	780.7	793.7
57.5°	655.9	668.8	699.0	720.5	731.9
60°	592.8	608.6	638.7	658.7	670.2
62.5°	532.5	548.3	581.3	601.4	611.4
65°	472.2	487.9	522.4	542.5	552.5
67.5°	410.5	429.1	465.1	485.1	493.7
70°	351.6	373.2	409.0	429.1	436.3
72.5°	292.8	317.1	354.5	373.2	380.3
75°	236.8	264.0	301.4	318.6	322.9
77.5°	182.3	212.4	248.3	262.7	264.0
80°	132.0	162.1	195.2	199.4	198.1
82.5°	86.1	117.7	139.2	134.9	134.9
85°	48.8	73.2	81.8	77.5	74.6
87.5°	21.5	31.6	28.7	24.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)