

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: P166502

Luminaire Tested: **24ALNG-LD4-36-UNV-L830-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166502
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-L830-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

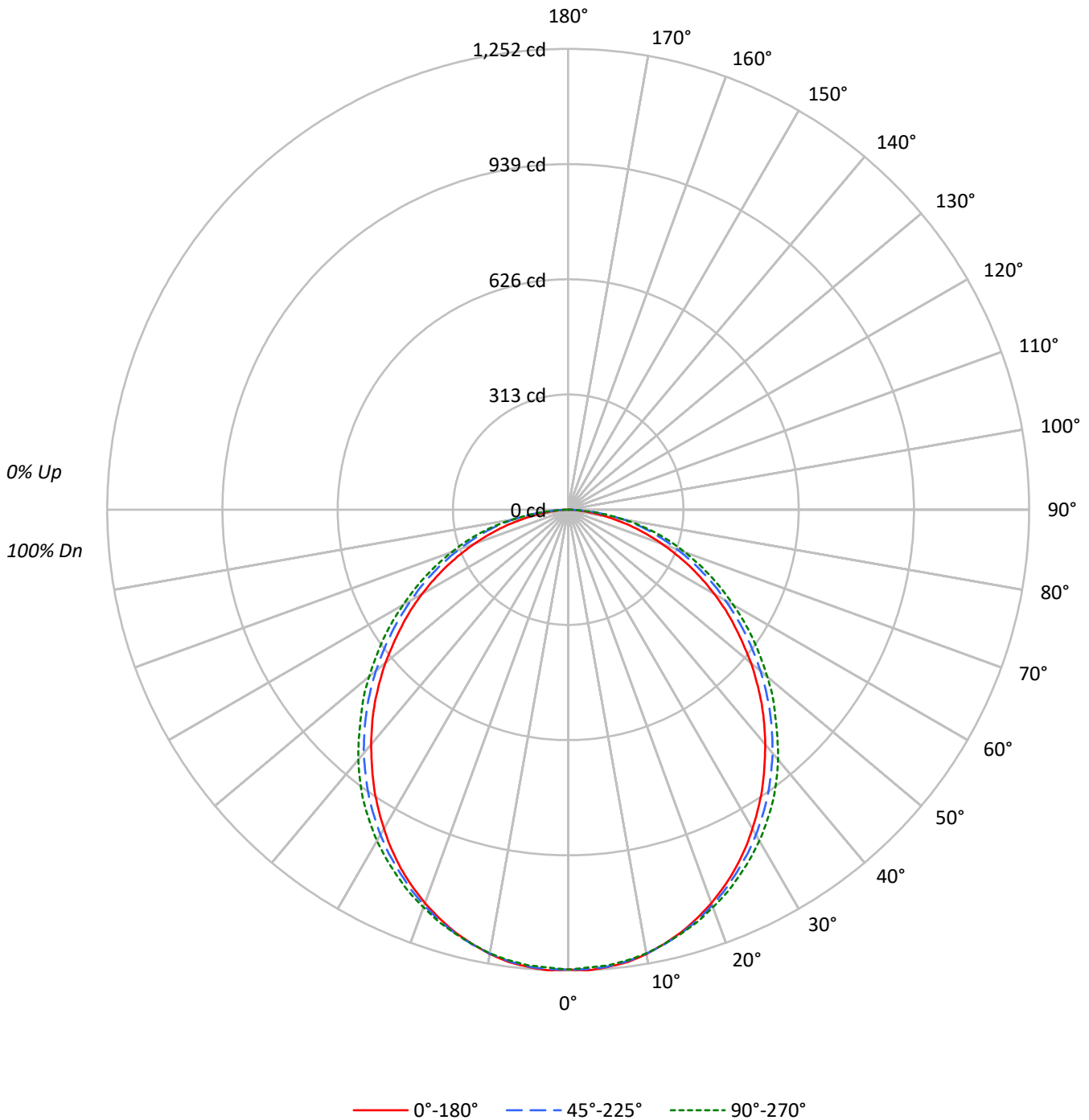
Lumens per Lamp: N/A
Luminaire Lumens: 3357.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	1791	1791	1791
5°	1795	1793	1788
10°	1785	1783	1782
15°	1764	1767	1769
20°	1735	1745	1754
25°	1701	1717	1738
30°	1657	1688	1720
35°	1610	1655	1696
40°	1558	1616	1660
45°	1506	1571	1614
50°	1446	1521	1575
55°	1380	1466	1532
60°	1313	1414	1484
65°	1237	1369	1448
70°	1138	1324	1412
75°	1013	1290	1382
80°	841	1245	1263
85°	620	1040	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.5
10°-20°	335.1	10.0
20°-30°	499.6	14.9
30°-40°	589.4	17.6
40°-50°	594.5	17.7
50°-60°	522.2	15.6
60°-70°	395.1	11.8
70°-80°	237.1	7.1
80°-90°	66.4	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°	952.8	28.4
0°-40°	1542.2	45.9
0°-60°	2658.9	79.2
0°-90°	3357.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1247	1241	1246	1244	1242	118
15°	1188	1184	1190	1192	1192	335
25°	1075	1074	1085	1092	1098	495
35°	920	922	946	960	969	575
45°	743	748	775	790	796	572
55°	552	564	586	603	613	494
65°	365	377	403	419	427	361
75°	183	204	233	246	249	194
85°	38	57	63	60	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.2	1249.2	1249.2	1249.2	1249.2
2.5°	1252.5	1245.9	1249.2	1249.2	1244.8
5°	1247.0	1241.4	1245.9	1243.7	1242.5
7.5°	1239.2	1232.5	1237.0	1235.8	1234.7
10°	1225.8	1219.2	1224.7	1223.6	1223.6
12.5°	1208.1	1203.7	1209.2	1208.1	1208.1
15°	1188.2	1183.8	1190.4	1191.5	1191.5
17.5°	1163.9	1160.5	1168.3	1170.5	1172.7
20°	1137.2	1135.0	1143.8	1144.9	1149.4
22.5°	1107.3	1105.1	1116.1	1120.6	1126.1
25°	1075.1	1074.0	1085.2	1091.8	1098.4
27.5°	1039.7	1039.7	1054.1	1062.9	1069.6
30°	1000.9	1003.1	1019.7	1030.8	1038.6
32.5°	961.0	964.3	983.1	996.4	1004.2
35°	920.0	922.2	945.5	959.9	968.7
37.5°	875.6	881.2	904.4	920.0	928.9
40°	832.4	837.9	863.5	877.8	886.7
42.5°	788.1	793.6	819.1	835.7	841.3
45°	742.6	748.1	774.8	790.3	795.8
47.5°	695.0	703.8	728.2	743.7	753.7
50°	648.4	656.1	681.7	697.2	706.1
52.5°	598.5	609.6	634.0	649.5	658.4
55°	552.0	564.2	586.3	603.0	613.0
57.5°	506.5	516.5	539.8	556.4	565.3
60°	457.8	470.0	493.2	508.7	517.6
62.5°	411.2	423.4	448.9	464.4	472.2
65°	364.7	376.9	403.4	418.9	426.7
67.5°	317.0	331.4	359.1	374.7	381.3
70°	271.5	288.2	315.9	331.4	336.9
72.5°	226.1	244.9	273.7	288.2	293.8
75°	182.9	204.0	232.8	246.1	249.4
77.5°	140.8	164.0	191.7	202.9	204.0
80°	101.9	125.3	150.8	154.1	153.0
82.5°	66.5	90.9	107.5	104.2	104.2
85°	37.7	56.6	63.2	59.9	57.7
87.5°	16.6	24.4	22.1	18.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)