

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: P166513

Luminaire Tested: **24ALNG-LD4-42-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166513
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-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

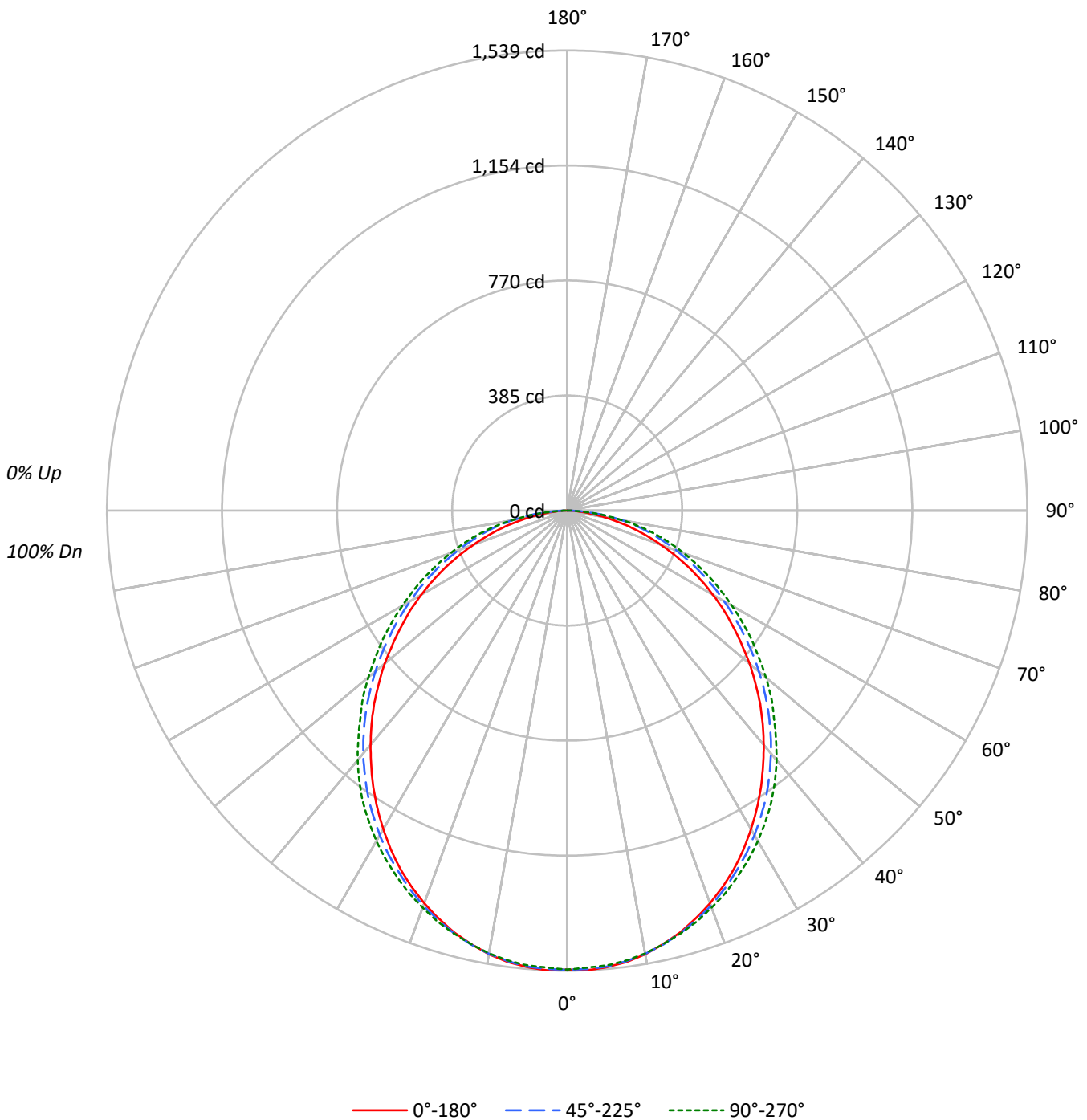
Lumens per Lamp: N/A
Luminaire Lumens: 4126.3 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2201	2201	2201
5°	2206	2204	2198
10°	2194	2192	2190
15°	2168	2172	2174
20°	2133	2145	2155
25°	2090	2110	2136
30°	2037	2075	2113
35°	1979	2034	2084
40°	1915	1986	2040
45°	1851	1931	1983
50°	1778	1869	1936
55°	1696	1801	1883
60°	1613	1738	1824
65°	1521	1682	1779
70°	1399	1627	1736
75°	1245	1585	1698
80°	1035	1530	1552
85°	762	1277	1165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.5
10°-20°	411.9	10.0
20°-30°	614.0	14.9
30°-40°	724.4	17.6
40°-50°	730.6	17.7
50°-60°	641.8	15.6
60°-70°	485.6	11.8
70°-80°	291.4	7.1
80°-90°	81.6	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°	1171.0	28.4
0°-40°	1895.4	45.9
0°-60°	3267.8	79.2
0°-90°	4126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4126.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1532	1526	1531	1528	1527	145
15°	1460	1455	1463	1464	1464	411
25°	1321	1320	1334	1342	1350	608
35°	1131	1133	1162	1180	1191	706
45°	913	920	952	971	978	703
55°	678	693	721	741	753	607
65°	448	463	496	515	524	443
75°	225	251	286	302	306	239
85°	46	70	78	74	71	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1539.3	1531.1	1535.2	1535.2	1529.8
5°	1532.5	1525.7	1531.1	1528.4	1527.0
7.5°	1522.9	1514.8	1520.2	1518.9	1517.5
10°	1506.6	1498.4	1505.2	1503.9	1503.9
12.5°	1484.8	1479.3	1486.2	1484.8	1484.8
15°	1460.3	1454.8	1463.0	1464.4	1464.4
17.5°	1430.3	1426.2	1435.8	1438.5	1441.2
20°	1397.6	1394.9	1405.8	1407.2	1412.6
22.5°	1360.8	1358.1	1371.7	1377.2	1384.0
25°	1321.3	1320.0	1333.6	1341.8	1349.9
27.5°	1277.7	1277.7	1295.5	1306.3	1314.5
30°	1230.1	1232.8	1253.2	1266.8	1276.4
32.5°	1181.0	1185.1	1208.3	1224.6	1234.2
35°	1130.6	1133.4	1162.0	1179.7	1190.6
37.5°	1076.1	1082.9	1111.6	1130.6	1141.5
40°	1023.0	1029.8	1061.2	1078.9	1089.8
42.5°	968.5	975.3	1006.7	1027.1	1033.9
45°	912.7	919.5	952.2	971.2	978.1
47.5°	854.1	865.0	895.0	914.0	926.3
50°	796.9	806.4	837.8	856.8	867.7
52.5°	735.6	749.2	779.2	798.2	809.1
55°	678.4	693.4	720.6	741.0	753.3
57.5°	622.5	634.8	663.4	683.8	694.7
60°	562.6	577.6	606.2	625.2	636.1
62.5°	505.4	520.4	551.7	570.8	580.3
65°	448.2	463.1	495.8	514.9	524.4
67.5°	389.6	407.3	441.4	460.4	468.6
70°	333.7	354.2	388.2	407.3	414.1
72.5°	277.9	301.0	336.5	354.2	361.0
75°	224.8	250.6	286.1	302.4	306.5
77.5°	173.0	201.6	235.7	249.3	250.6
80°	125.3	153.9	185.3	189.3	188.0
82.5°	81.7	111.7	132.1	128.0	128.0
85°	46.3	69.5	77.6	73.6	70.8
87.5°	20.4	30.0	27.2	23.2	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)