

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: P166478

Luminaire Tested: **22ALNG-LD4-44-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166478
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-44-UNV-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

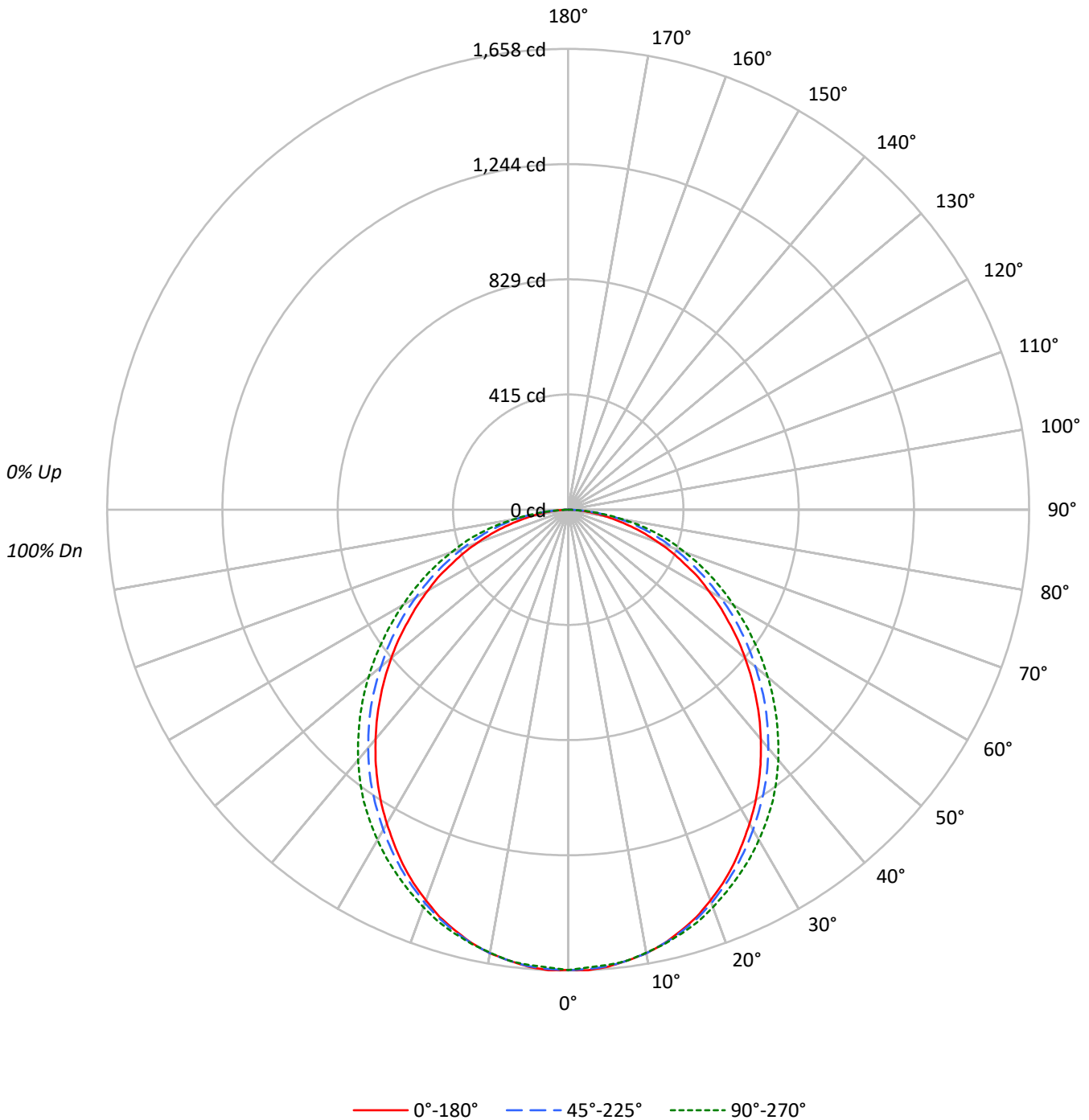
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4374.9 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 46.4
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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	4853	4853	4853
5°	4854	4848	4836
10°	4821	4821	4815
15°	4757	4769	4787
20°	4665	4696	4746
25°	4552	4603	4694
30°	4411	4499	4641
35°	4277	4399	4585
40°	4121	4282	4497
45°	3958	4158	4390
50°	3788	4008	4273
55°	3601	3867	4143
60°	3415	3709	4025
65°	3207	3568	3930
70°	2968	3431	3809
75°	2652	3310	3740
80°	2264	3144	3346
85°	1819	2558	2491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.6
10°-20°	443.4	10.1
20°-30°	657.0	15.0
30°-40°	771.3	17.6
40°-50°	774.5	17.7
50°-60°	677.1	15.5
60°-70°	509.1	11.6
70°-80°	302.9	6.9
80°-90°	83.1	1.9
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°	1256.9	28.7
0°-40°	2028.2	46.4
0°-60°	3479.9	79.5
0°-90°	4374.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1650	1650	1648	1646	1644	157
15°	1568	1570	1572	1578	1578	442
25°	1408	1410	1424	1444	1452	647
35°	1196	1204	1230	1266	1282	747
45°	955	967	1003	1041	1059	737
55°	705	719	757	793	811	632
65°	463	477	515	547	567	461
75°	234	254	292	318	330	250
85°	54	66	76	76	74	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.2	1656.2	1656.2	1656.2	1656.2
2.5°	1658.2	1656.2	1654.2	1650.2	1648.2
5°	1650.2	1650.2	1648.2	1646.2	1644.2
7.5°	1636.2	1638.2	1636.2	1636.2	1636.2
10°	1620.2	1622.2	1620.2	1620.2	1618.2
12.5°	1598.2	1598.2	1598.2	1600.2	1600.2
15°	1568.1	1570.1	1572.1	1578.1	1578.1
17.5°	1536.1	1536.1	1542.1	1552.1	1554.1
20°	1496.0	1498.0	1506.0	1518.0	1522.1
22.5°	1454.0	1456.0	1466.0	1482.0	1488.0
25°	1407.9	1409.9	1423.9	1443.9	1452.0
27.5°	1355.8	1359.8	1377.9	1403.9	1413.9
30°	1303.8	1309.8	1329.8	1359.8	1371.8
32.5°	1251.7	1257.7	1279.7	1313.8	1327.8
35°	1195.6	1203.6	1229.7	1265.7	1281.7
37.5°	1137.5	1145.5	1175.6	1213.6	1229.7
40°	1077.5	1087.5	1119.5	1157.6	1175.6
42.5°	1017.4	1027.4	1061.4	1099.5	1117.5
45°	955.3	967.3	1003.4	1041.4	1059.4
47.5°	893.2	905.2	941.3	979.3	999.3
50°	831.1	843.1	879.2	917.2	937.3
52.5°	769.0	781.1	819.1	855.2	875.2
55°	705.0	719.0	757.0	793.1	811.1
57.5°	644.9	656.9	696.9	731.0	749.0
60°	582.8	596.8	632.9	666.9	686.9
62.5°	528.7	534.7	574.8	606.8	626.8
65°	462.6	476.6	514.7	546.7	566.8
67.5°	406.5	418.6	456.6	490.7	506.7
70°	346.5	362.5	400.5	430.6	444.6
72.5°	290.4	306.4	346.5	376.5	390.5
75°	234.3	254.3	292.4	318.4	330.4
77.5°	182.2	204.3	238.3	262.4	268.4
80°	134.2	154.2	186.3	196.3	198.3
82.5°	92.1	110.1	130.2	134.2	134.2
85°	54.1	66.1	76.1	76.1	74.1
87.5°	24.0	28.0	26.0	24.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)