

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: P166503

Luminaire Tested: **24ALNG-LD4-42-UNV-L830-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166503
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-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

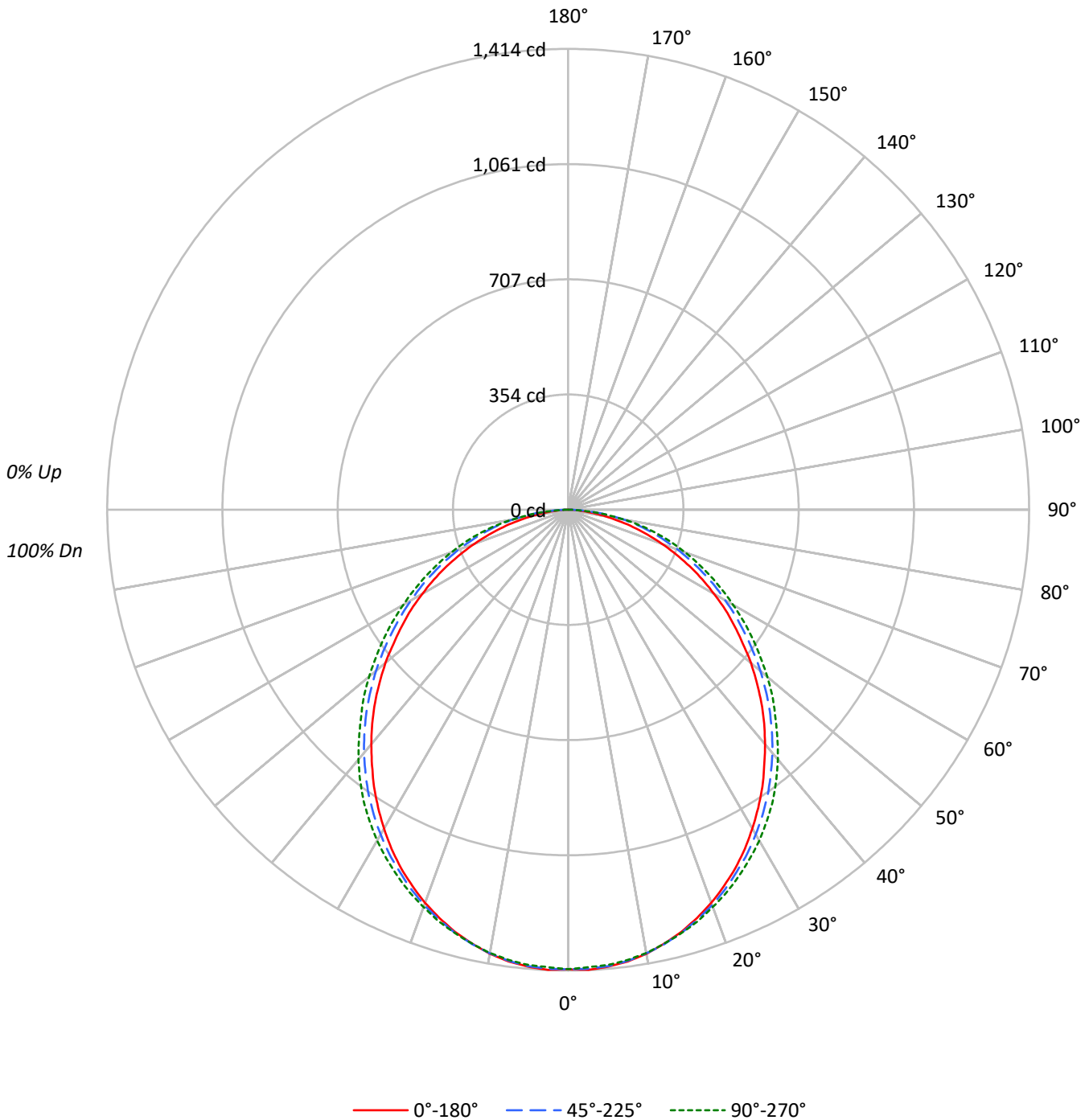
Lumens per Lamp: N/A
Luminaire Lumens: 3789.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2021	2021	2021
5°	2026	2024	2018
10°	2014	2012	2011
15°	1991	1994	1996
20°	1958	1970	1979
25°	1920	1937	1961
30°	1870	1905	1941
35°	1817	1868	1914
40°	1758	1824	1873
45°	1699	1773	1821
50°	1632	1716	1777
55°	1557	1654	1729
60°	1481	1596	1675
65°	1396	1545	1634
70°	1285	1495	1594
75°	1143	1455	1560
80°	950	1405	1425
85°	699	1173	1069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.5
10°-20°	378.2	10.0
20°-30°	563.8	14.9
30°-40°	665.2	17.6
40°-50°	670.9	17.7
50°-60°	589.4	15.6
60°-70°	445.9	11.8
70°-80°	267.5	7.1
80°-90°	74.9	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°	1075.3	28.4
0°-40°	1740.5	45.9
0°-60°	3000.8	79.2
0°-90°	3789.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1407	1401	1406	1404	1402	134
15°	1341	1336	1344	1345	1345	378
25°	1213	1212	1225	1232	1240	558
35°	1038	1041	1067	1083	1093	649
45°	838	844	874	892	898	646
55°	623	637	662	680	692	558
65°	412	425	455	473	482	407
75°	206	230	263	278	282	219
85°	42	64	71	68	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.8	1409.8	1409.8	1409.8	1409.8
2.5°	1413.5	1406.0	1409.8	1409.8	1404.8
5°	1407.3	1401.1	1406.0	1403.5	1402.2
7.5°	1398.5	1391.0	1396.0	1394.8	1393.5
10°	1383.5	1376.0	1382.2	1381.0	1381.0
12.5°	1363.5	1358.4	1364.8	1363.5	1363.5
15°	1341.0	1335.9	1343.5	1344.8	1344.8
17.5°	1313.4	1309.7	1318.5	1321.0	1323.5
20°	1283.4	1280.9	1290.9	1292.2	1297.2
22.5°	1249.6	1247.1	1259.6	1264.7	1270.9
25°	1213.3	1212.2	1224.6	1232.2	1239.6
27.5°	1173.3	1173.3	1189.7	1199.6	1207.1
30°	1129.6	1132.1	1150.8	1163.3	1172.1
32.5°	1084.5	1088.3	1109.6	1124.6	1133.4
35°	1038.2	1040.8	1067.1	1083.3	1093.3
37.5°	988.2	994.4	1020.8	1038.2	1048.2
40°	939.4	945.7	974.5	990.8	1000.8
42.5°	889.4	895.6	924.5	943.2	949.4
45°	838.1	844.4	874.4	891.9	898.2
47.5°	784.3	794.3	821.9	839.3	850.6
50°	731.8	740.5	769.4	786.8	796.8
52.5°	675.5	688.0	715.5	733.0	743.0
55°	623.0	636.7	661.7	680.5	691.8
57.5°	571.6	582.9	609.2	627.9	637.9
60°	516.6	530.4	556.7	574.1	584.1
62.5°	464.1	477.9	506.6	524.2	532.9
65°	411.6	425.3	455.3	472.8	481.6
67.5°	357.8	374.0	405.3	422.8	430.3
70°	306.4	325.3	356.5	374.0	380.3
72.5°	255.2	276.4	309.0	325.3	331.5
75°	206.4	230.1	262.7	277.7	281.5
77.5°	158.9	185.1	216.4	228.9	230.1
80°	115.1	141.3	170.2	173.8	172.6
82.5°	75.0	102.6	121.3	117.5	117.5
85°	42.5	63.8	71.3	67.6	65.0
87.5°	18.7	27.5	25.0	21.3	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)