

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: P166508

Luminaire Tested: **24ALNG-LD4-67-UNV-L830-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166508
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-LD4-67-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

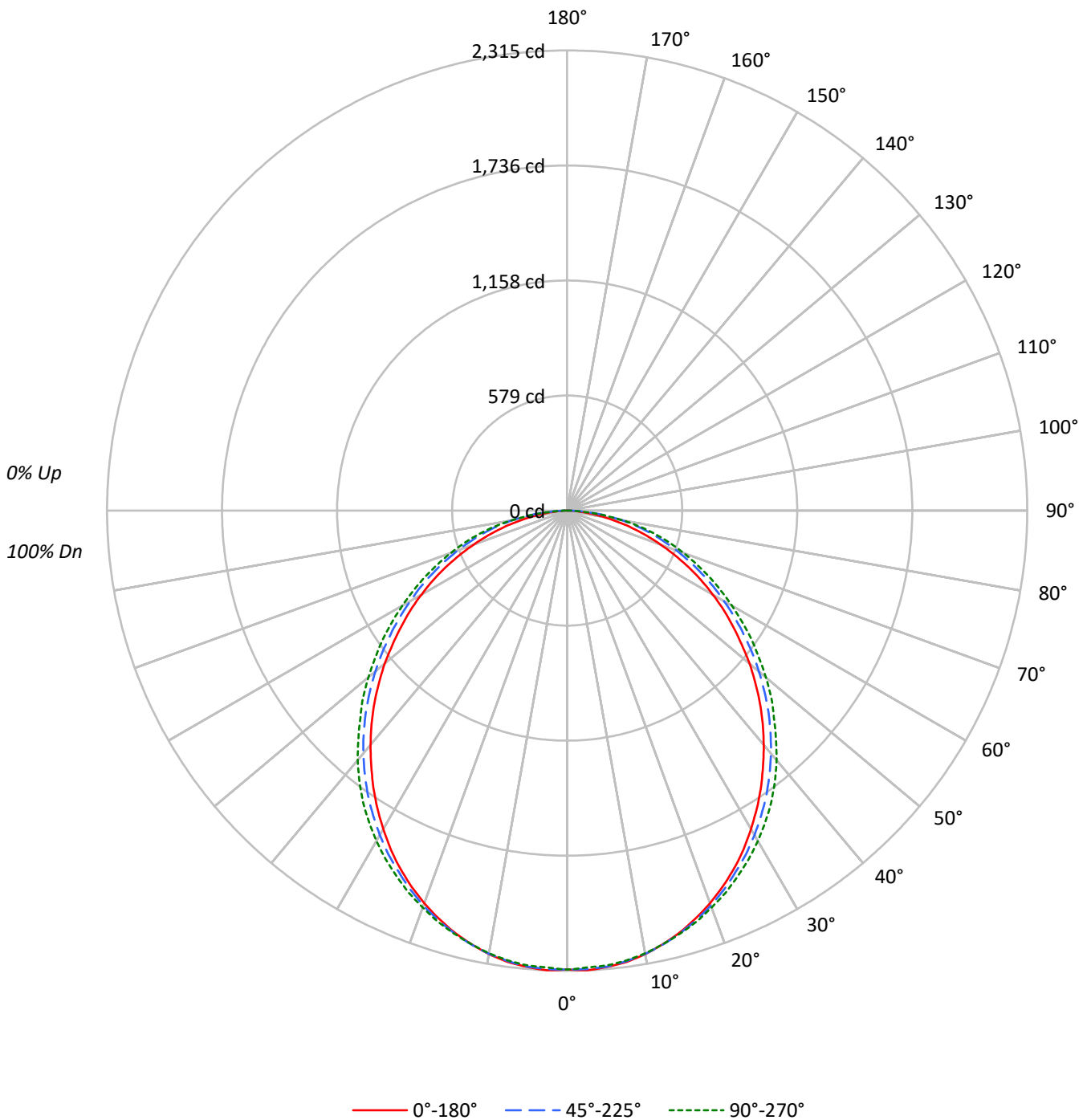
Lumens per Lamp: N/A
Luminaire Lumens: 6206.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 64.6
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°	3311	3311	3311
5°	3318	3315	3306
10°	3299	3296	3293
15°	3260	3266	3269
20°	3208	3226	3242
25°	3144	3173	3212
30°	3063	3121	3178
35°	2977	3059	3134
40°	2880	2987	3068
45°	2784	2904	2983
50°	2674	2811	2911
55°	2551	2710	2832
60°	2426	2614	2744
65°	2287	2530	2676
70°	2104	2448	2611
75°	1873	2383	2554
80°	1556	2300	2334
85°	1147	1922	1752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	3.5
10°-20°	619.5	10.0
20°-30°	923.5	14.9
30°-40°	1089.5	17.6
40°-50°	1098.8	17.7
50°-60°	965.3	15.6
60°-70°	730.4	11.8
70°-80°	438.2	7.1
80°-90°	122.7	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°	1761.2	28.4
0°-40°	2850.8	45.9
0°-60°	4914.9	79.2
0°-90°	6206.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6206.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2309	2309	2309	2309	2309	
5°	2305	2295	2303	2299	2297	219
15°	2196	2188	2200	2202	2202	619
25°	1987	1985	2006	2018	2030	914
35°	1700	1705	1748	1774	1791	1063
45°	1373	1383	1432	1461	1471	1058
55°	1020	1043	1084	1114	1133	913
65°	674	697	746	774	789	666
75°	338	377	430	455	461	359
85°	70	104	117	111	106	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309.0	2309.0	2309.0	2309.0	2309.0
2.5°	2315.1	2302.9	2309.0	2309.0	2300.8
5°	2304.9	2294.6	2302.9	2298.8	2296.8
7.5°	2290.6	2278.3	2286.5	2284.5	2282.3
10°	2266.0	2253.7	2264.0	2261.9	2261.9
12.5°	2233.2	2225.0	2235.2	2233.2	2233.2
15°	2196.3	2188.1	2200.4	2202.5	2202.5
17.5°	2151.3	2145.1	2159.5	2163.5	2167.6
20°	2102.1	2097.9	2114.4	2116.4	2124.7
22.5°	2046.8	2042.7	2063.1	2071.3	2081.6
25°	1987.4	1985.3	2005.8	2018.1	2030.4
27.5°	1921.8	1921.8	1948.4	1964.8	1977.1
30°	1850.1	1854.1	1884.9	1905.4	1919.7
32.5°	1776.4	1782.5	1817.3	1841.9	1856.3
35°	1700.5	1704.6	1747.6	1774.2	1790.7
37.5°	1618.6	1628.8	1671.9	1700.5	1716.9
40°	1538.7	1548.9	1596.0	1622.6	1639.1
42.5°	1456.7	1467.0	1514.1	1544.8	1555.0
45°	1372.7	1383.0	1432.1	1460.8	1471.0
47.5°	1284.6	1301.0	1346.0	1374.8	1393.2
50°	1198.6	1212.9	1260.0	1288.7	1305.1
52.5°	1106.4	1126.8	1171.9	1200.6	1217.0
55°	1020.3	1042.8	1083.9	1114.5	1133.0
57.5°	936.3	954.8	997.7	1028.5	1044.9
60°	846.1	868.7	911.7	940.4	956.8
62.5°	760.1	782.7	829.8	858.4	872.8
65°	674.0	696.6	745.8	774.5	788.8
67.5°	586.0	612.6	663.8	692.5	704.8
70°	501.9	532.7	583.9	612.6	622.9
72.5°	417.9	452.8	506.1	532.7	542.9
75°	338.0	377.0	430.2	454.8	461.0
77.5°	260.2	303.2	354.5	374.9	377.0
80°	188.5	231.5	278.6	284.8	282.7
82.5°	123.0	168.0	198.7	192.6	192.6
85°	69.7	104.5	116.8	110.7	106.5
87.5°	30.8	45.1	41.0	34.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)