

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: P166528

Luminaire Tested: **24ALNG-LD4-67-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166528
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-L840-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

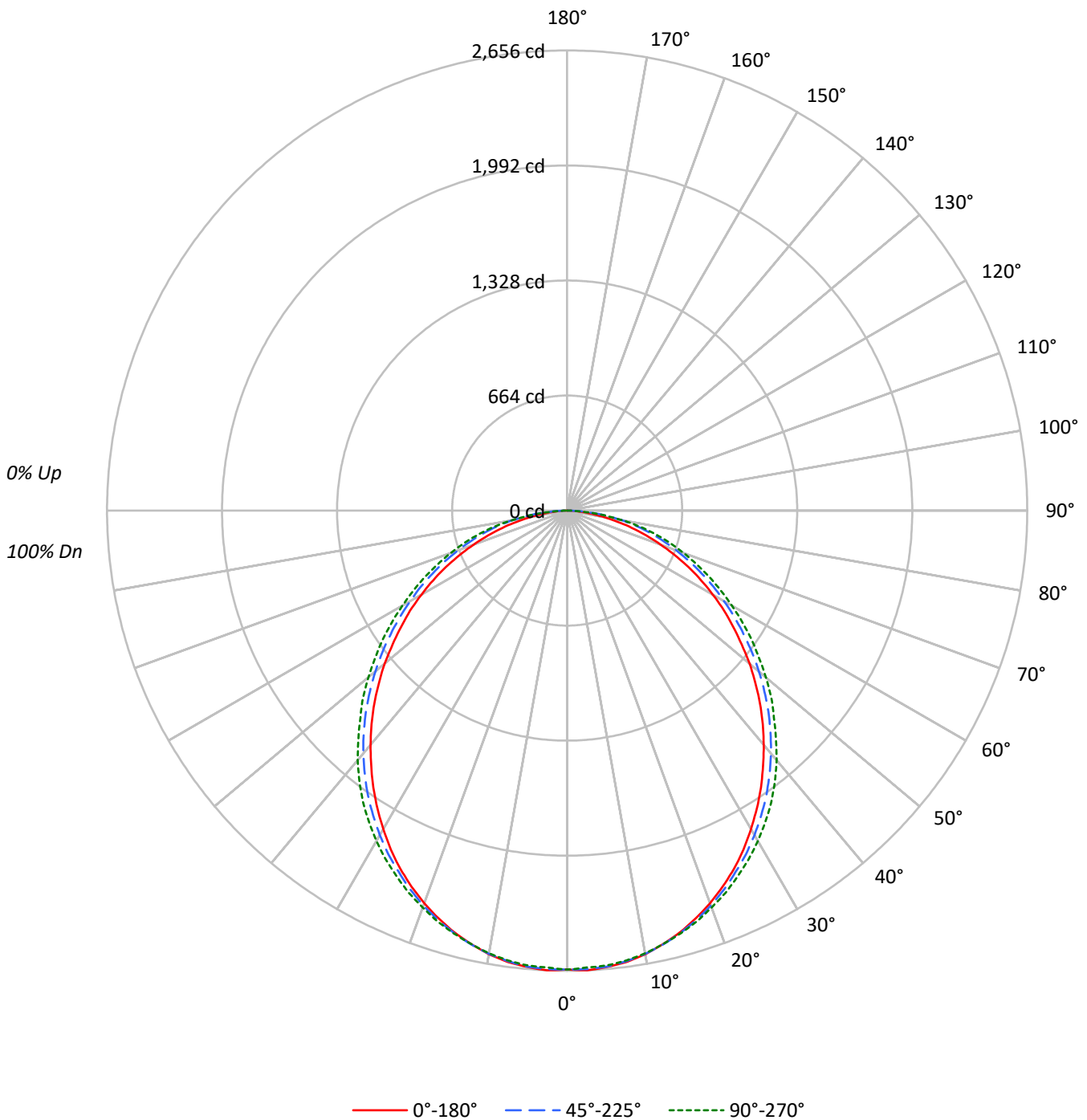
Lumens per Lamp: N/A
Luminaire Lumens: 7120.6 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	3799	3799	3799
5°	3806	3803	3793
10°	3785	3782	3778
15°	3741	3748	3751
20°	3680	3702	3720
25°	3607	3641	3685
30°	3515	3581	3647
35°	3415	3510	3596
40°	3304	3428	3520
45°	3194	3332	3422
50°	3068	3225	3340
55°	2927	3109	3250
60°	2784	3000	3148
65°	2624	2903	3070
70°	2414	2809	2996
75°	2148	2735	2930
80°	1786	2640	2679
85°	1316	2205	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	3.5
10°-20°	710.7	10.0
20°-30°	1059.6	14.9
30°-40°	1250.1	17.6
40°-50°	1260.7	17.7
50°-60°	1107.5	15.6
60°-70°	838.0	11.8
70°-80°	502.8	7.1
80°-90°	140.8	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°	2020.7	28.4
0°-40°	3270.8	45.9
0°-60°	5639.1	79.2
0°-90°	7120.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7120.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2644	2633	2642	2638	2635	251
15°	2520	2510	2525	2527	2527	710
25°	2280	2278	2301	2315	2330	1049
35°	1951	1956	2005	2036	2054	1219
45°	1575	1587	1643	1676	1688	1214
55°	1171	1196	1244	1279	1300	1048
65°	773	799	856	889	905	765
75°	388	432	494	522	529	412
85°	80	120	134	127	122	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2649.2	2649.2	2649.2	2649.2	2649.2
2.5°	2656.2	2642.2	2649.2	2649.2	2639.8
5°	2644.5	2632.7	2642.2	2637.5	2635.2
7.5°	2628.1	2614.0	2623.4	2621.0	2618.6
10°	2599.9	2585.7	2597.5	2595.1	2595.1
12.5°	2562.2	2552.9	2564.6	2562.2	2562.2
15°	2519.9	2510.5	2524.6	2527.0	2527.0
17.5°	2468.3	2461.2	2477.6	2482.3	2487.0
20°	2411.8	2407.1	2425.9	2428.2	2437.7
22.5°	2348.4	2343.6	2367.1	2376.5	2388.3
25°	2280.2	2277.8	2301.3	2315.4	2329.5
27.5°	2205.0	2205.0	2235.5	2254.3	2268.4
30°	2122.7	2127.3	2162.6	2186.1	2202.6
32.5°	2038.1	2045.1	2085.1	2113.3	2129.7
35°	1951.1	1955.8	2005.1	2035.7	2054.5
37.5°	1857.1	1868.8	1918.2	1951.1	1969.9
40°	1765.4	1777.1	1831.2	1861.7	1880.6
42.5°	1671.3	1683.1	1737.2	1772.4	1784.2
45°	1574.9	1586.7	1643.1	1676.1	1687.8
47.5°	1473.9	1492.6	1544.4	1577.3	1598.4
50°	1375.2	1391.6	1445.6	1478.6	1497.4
52.5°	1269.4	1292.9	1344.6	1377.5	1396.3
55°	1170.7	1196.5	1243.6	1278.8	1299.9
57.5°	1074.3	1095.4	1144.7	1180.0	1198.9
60°	970.8	996.7	1046.0	1079.0	1097.7
62.5°	872.1	898.0	952.0	984.9	1001.3
65°	773.3	799.3	855.6	888.6	905.0
67.5°	672.3	702.9	761.6	794.5	808.6
70°	575.9	611.2	670.0	702.9	714.7
72.5°	479.5	519.5	580.6	611.2	622.9
75°	387.8	432.5	493.6	521.8	528.9
77.5°	298.5	347.9	406.7	430.2	432.5
80°	216.3	265.6	319.7	326.7	324.4
82.5°	141.1	192.8	228.0	220.9	220.9
85°	80.0	119.9	134.0	127.0	122.2
87.5°	35.3	51.7	47.0	39.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)