

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: P166529

Luminaire Tested: **24ALNG-LD4-74-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166529
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-LD4-74-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

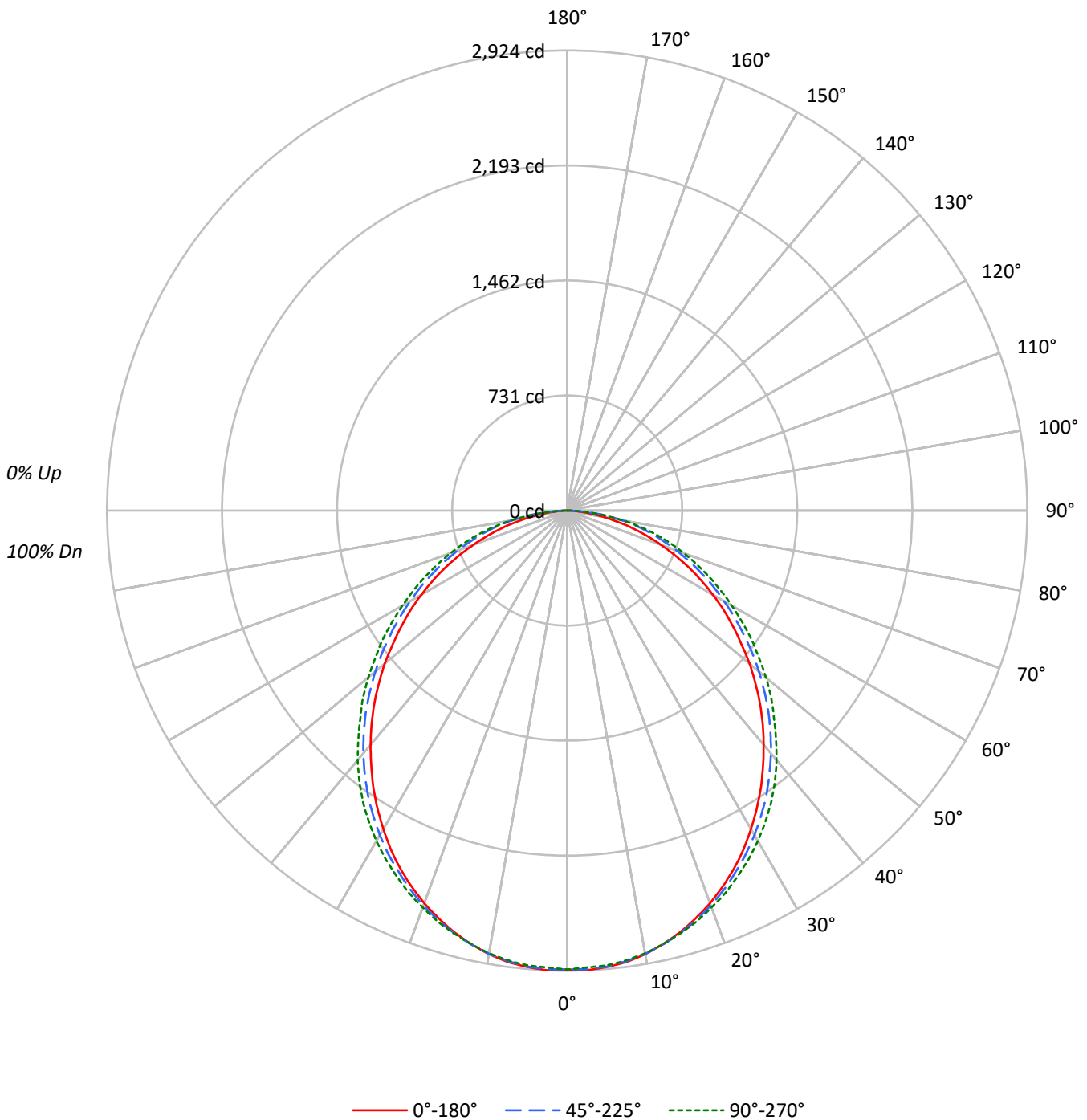
Lumens per Lamp: N/A
Luminaire Lumens: 7838.1 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 73.2
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°	4181	4181	4181
5°	4190	4186	4175
10°	4167	4163	4159
15°	4118	4125	4129
20°	4051	4075	4094
25°	3971	4008	4057
30°	3869	3941	4014
35°	3759	3864	3959
40°	3637	3773	3875
45°	3516	3668	3767
50°	3377	3550	3677
55°	3221	3422	3577
60°	3065	3302	3465
65°	2888	3195	3380
70°	2658	3091	3298
75°	2365	3010	3225
80°	1965	2906	2949
85°	1448	2427	2213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	3.5
10°-20°	782.3	10.0
20°-30°	1166.3	14.9
30°-40°	1376.0	17.6
40°-50°	1387.8	17.7
50°-60°	1219.1	15.6
60°-70°	922.4	11.8
70°-80°	553.4	7.1
80°-90°	155.0	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°	2224.3	28.4
0°-40°	3600.3	45.9
0°-60°	6207.3	79.2
0°-90°	7838.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7838.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2916	2916	2916	2916	2916	
5°	2911	2898	2908	2903	2901	276
15°	2774	2764	2779	2782	2782	781
25°	2510	2507	2533	2549	2564	1155
35°	2148	2153	2207	2241	2262	1342
45°	1734	1747	1809	1845	1858	1336
55°	1289	1317	1369	1408	1431	1153
65°	851	880	942	978	996	842
75°	427	476	543	574	582	453
85°	88	132	148	140	134	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2916.2	2916.2	2916.2	2916.2	2916.2
2.5°	2924.0	2908.4	2916.2	2916.2	2905.8
5°	2911.0	2898.0	2908.4	2903.2	2900.7
7.5°	2892.9	2877.4	2887.7	2885.1	2882.5
10°	2861.8	2846.3	2859.3	2856.6	2856.6
12.5°	2820.4	2810.1	2823.0	2820.4	2820.4
15°	2773.8	2763.5	2779.0	2781.6	2781.6
17.5°	2716.9	2709.1	2727.2	2732.4	2737.6
20°	2654.9	2649.6	2670.3	2672.9	2683.3
22.5°	2584.9	2579.7	2605.7	2616.0	2628.9
25°	2509.9	2507.4	2533.2	2548.8	2564.3
27.5°	2427.1	2427.1	2460.8	2481.4	2496.9
30°	2336.6	2341.7	2380.5	2406.4	2424.5
32.5°	2243.4	2251.1	2295.2	2326.2	2344.3
35°	2147.7	2152.8	2207.2	2240.8	2261.6
37.5°	2044.2	2057.0	2111.4	2147.7	2168.3
40°	1943.3	1956.2	2015.6	2049.4	2070.0
42.5°	1839.7	1852.7	1912.2	1951.0	1963.9
45°	1733.7	1746.6	1808.7	1845.0	1857.8
47.5°	1622.3	1643.1	1700.0	1736.2	1759.5
50°	1513.7	1531.8	1591.4	1627.6	1648.3
52.5°	1397.3	1423.1	1480.1	1516.3	1537.0
55°	1288.6	1317.1	1368.8	1407.6	1430.9
57.5°	1182.5	1205.7	1260.1	1299.0	1319.6
60°	1068.7	1097.1	1151.5	1187.7	1208.4
62.5°	959.9	988.5	1047.9	1084.2	1102.3
65°	851.3	879.8	941.8	978.1	996.2
67.5°	740.0	773.7	838.3	874.6	890.1
70°	634.0	672.7	737.4	773.7	786.6
72.5°	527.9	571.9	639.1	672.7	685.7
75°	426.9	476.1	543.3	574.4	582.2
77.5°	328.6	383.0	447.7	473.5	476.1
80°	238.0	292.4	351.9	359.7	357.1
82.5°	155.3	212.2	251.0	243.3	243.3
85°	88.0	132.0	147.5	139.7	134.5
87.5°	38.8	56.9	51.7	44.0	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)