

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: P166527

Luminaire Tested: **24ALNG-LD4-60-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166527
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-LD4-60-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

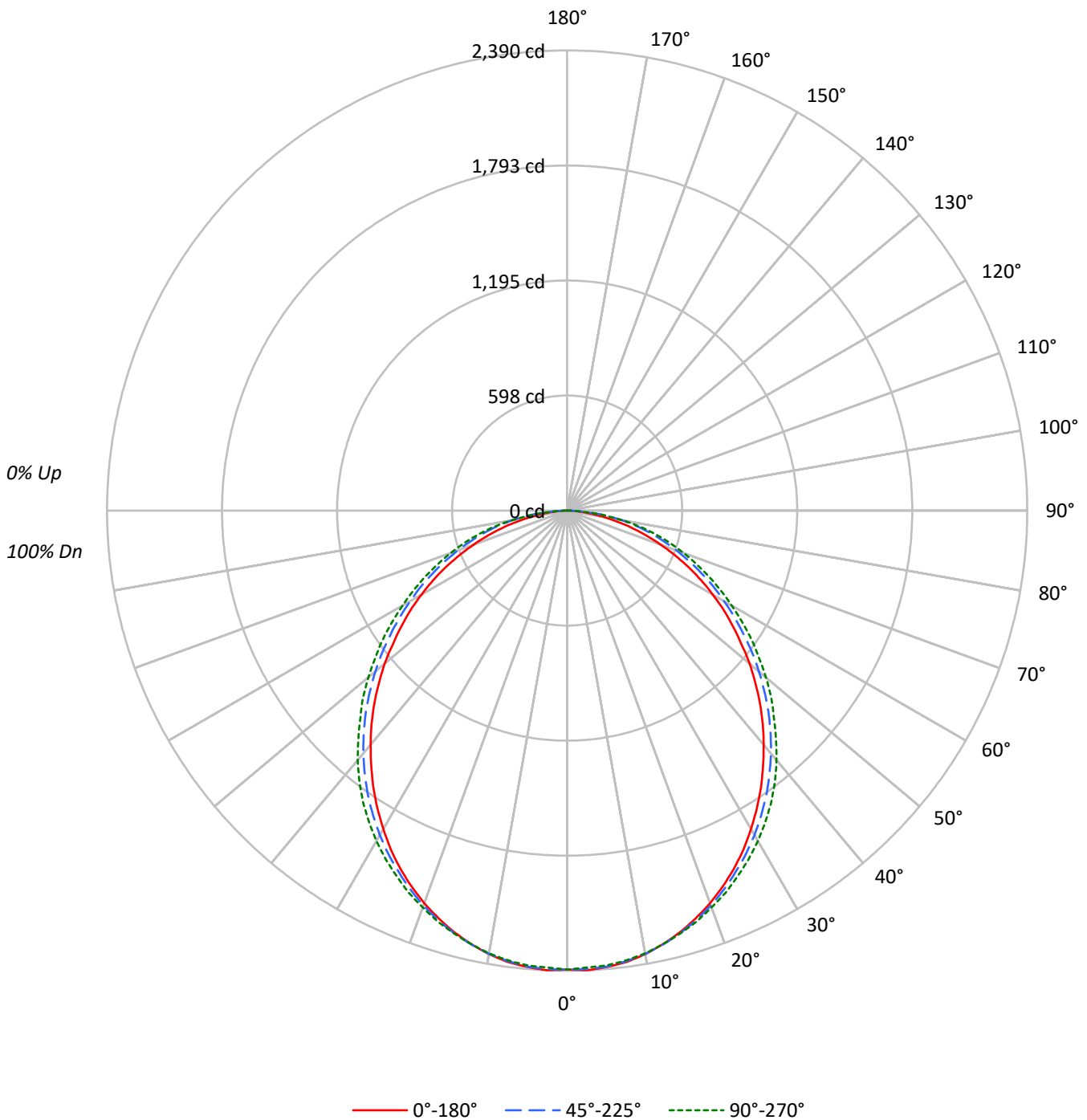
Lumens per Lamp: N/A
Luminaire Lumens: 6406.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 56.7
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°	3418	3418	3418
5°	3424	3421	3412
10°	3406	3403	3400
15°	3365	3372	3375
20°	3311	3330	3347
25°	3246	3276	3316
30°	3162	3221	3281
35°	3073	3158	3235
40°	2973	3084	3167
45°	2873	2998	3079
50°	2760	2901	3005
55°	2633	2797	2924
60°	2505	2699	2832
65°	2361	2612	2762
70°	2172	2527	2695
75°	1933	2460	2636
80°	1607	2375	2409
85°	1183	1982	1810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.5
10°-20°	639.4	10.0
20°-30°	953.3	14.9
30°-40°	1124.7	17.6
40°-50°	1134.3	17.7
50°-60°	996.4	15.6
60°-70°	754.0	11.8
70°-80°	452.3	7.1
80°-90°	126.7	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°	1818.0	28.4
0°-40°	2942.7	45.9
0°-60°	5073.4	79.2
0°-90°	6406.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6406.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2384	2384	2384	2384	2384	
5°	2379	2369	2377	2373	2371	226
15°	2267	2259	2271	2274	2274	639
25°	2052	2049	2070	2083	2096	944
35°	1755	1760	1804	1832	1848	1097
45°	1417	1428	1478	1508	1518	1092
55°	1053	1076	1119	1150	1170	943
65°	696	719	770	800	814	688
75°	349	389	444	470	476	370
85°	72	108	120	114	110	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2389.8	2377.1	2383.5	2383.5	2375.0
5°	2379.2	2368.7	2377.1	2372.9	2370.8
7.5°	2364.5	2351.7	2360.2	2358.1	2356.0
10°	2339.1	2326.3	2337.0	2334.9	2334.9
12.5°	2305.3	2296.7	2307.4	2305.3	2305.3
15°	2267.1	2258.7	2271.4	2273.5	2273.5
17.5°	2220.7	2214.2	2229.1	2233.3	2237.5
20°	2169.9	2165.7	2182.5	2184.6	2193.2
22.5°	2112.8	2108.6	2129.7	2138.2	2148.7
25°	2051.5	2049.4	2070.4	2083.2	2095.8
27.5°	1983.7	1983.7	2011.2	2028.2	2040.8
30°	1909.8	1914.0	1945.7	1966.9	1981.6
32.5°	1833.6	1840.0	1875.9	1901.3	1916.1
35°	1755.4	1759.6	1804.0	1831.5	1848.4
37.5°	1670.8	1681.3	1725.8	1755.4	1772.3
40°	1588.3	1598.8	1647.5	1675.0	1691.9
42.5°	1503.7	1514.2	1562.9	1594.6	1605.2
45°	1417.0	1427.5	1478.3	1507.9	1518.4
47.5°	1326.1	1342.9	1389.5	1419.1	1438.2
50°	1237.2	1252.0	1300.7	1330.3	1347.2
52.5°	1142.0	1163.2	1209.7	1239.3	1256.2
55°	1053.2	1076.5	1118.8	1150.5	1169.5
57.5°	966.5	985.5	1030.0	1061.7	1078.6
60°	873.4	896.7	941.1	970.8	987.6
62.5°	784.6	807.9	856.6	886.2	900.9
65°	695.8	719.1	769.9	799.5	814.2
67.5°	604.9	632.4	685.3	714.9	727.5
70°	518.2	549.9	602.8	632.4	642.9
72.5°	431.4	467.4	522.4	549.9	560.4
75°	349.0	389.1	444.1	469.5	475.8
77.5°	268.6	313.0	365.9	387.0	389.1
80°	194.6	239.0	287.6	294.0	291.8
82.5°	126.9	173.4	205.1	198.8	198.8
85°	71.9	107.9	120.5	114.2	110.0
87.5°	31.7	46.6	42.2	35.9	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)