

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: P166525

Luminaire Tested: **24ALNG-LD4-50-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166525
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-LD4-50-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

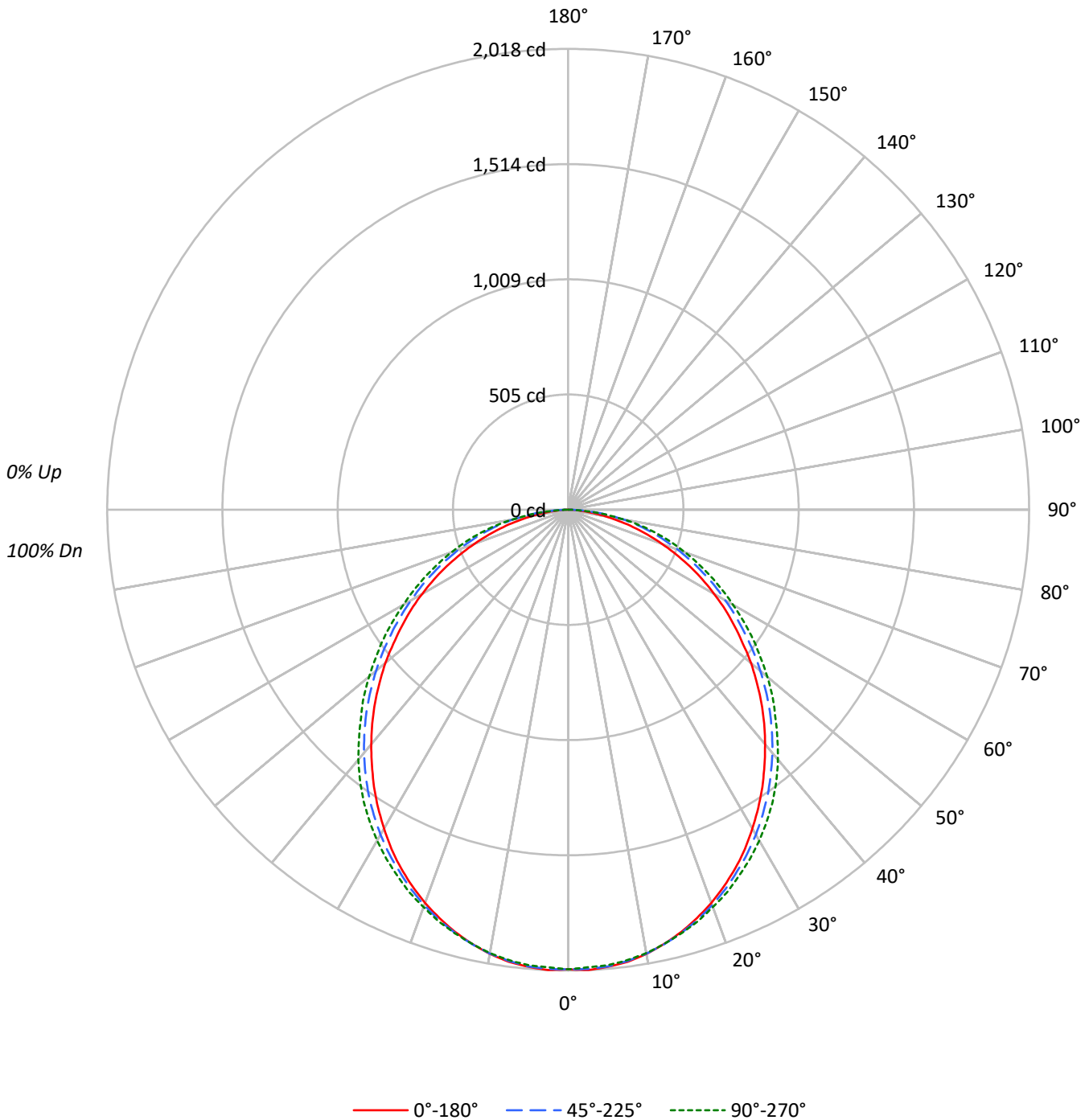
Lumens per Lamp: N/A
Luminaire Lumens: 5409.3 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 47.6
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

TEST NUMBER: P166525

CATALOG NUMBER: 24ALNG-LD4-50-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P166525

CATALOG NUMBER: 24ALNG-LD4-50-UNV-L840-CD1-U

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°	2886	2886	2886
5°	2892	2889	2881
10°	2876	2873	2870
15°	2842	2847	2850
20°	2796	2812	2826
25°	2740	2766	2800
30°	2670	2720	2770
35°	2594	2666	2732
40°	2510	2604	2674
45°	2426	2531	2600
50°	2330	2450	2538
55°	2223	2362	2469
60°	2115	2279	2391
65°	1993	2205	2333
70°	1835	2133	2276
75°	1633	2077	2226
80°	1357	2006	2035
85°	999	1675	1527



TEST NUMBER: P166525

CATALOG NUMBER: 24ALNG-LD4-50-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	3.5
10°-20°	539.9	10.0
20°-30°	804.9	14.9
30°-40°	949.7	17.6
40°-50°	957.8	17.7
50°-60°	841.4	15.6
60°-70°	636.6	11.8
70°-80°	381.9	7.1
80°-90°	107.0	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°	1535.1	28.4
0°-40°	2484.7	45.9
0°-60°	4283.8	79.2
0°-90°	5409.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5409.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	2009	2000	2007	2004	2002	191
15°	1914	1907	1918	1920	1920	539
25°	1732	1730	1748	1759	1770	797
35°	1482	1486	1523	1546	1561	926
45°	1196	1205	1248	1273	1282	922
55°	889	909	945	971	988	796
65°	588	607	650	675	688	581
75°	295	329	375	396	402	313
85°	61	91	102	96	93	75
90°	0	0	0	0	0	



TEST NUMBER: P166525

CATALOG NUMBER: 24ALNG-LD4-50-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2017.9	2007.2	2012.6	2012.6	2005.4
5°	2009.0	2000.0	2007.2	2003.6	2001.8
7.5°	1996.5	1985.7	1992.9	1991.1	1989.3
10°	1975.1	1964.3	1973.3	1971.5	1971.5
12.5°	1946.4	1939.4	1948.2	1946.4	1946.4
15°	1914.3	1907.2	1917.9	1919.7	1919.7
17.5°	1875.0	1869.7	1882.2	1885.7	1889.3
20°	1832.2	1828.6	1842.9	1844.6	1851.8
22.5°	1784.0	1780.4	1798.3	1805.3	1814.3
25°	1732.2	1730.4	1748.2	1759.0	1769.6
27.5°	1675.0	1675.0	1698.2	1712.5	1723.3
30°	1612.5	1616.1	1642.9	1660.8	1673.2
32.5°	1548.3	1553.6	1584.0	1605.4	1617.9
35°	1482.2	1485.8	1523.2	1546.5	1560.7
37.5°	1410.8	1419.6	1457.1	1482.2	1496.4
40°	1341.1	1350.0	1391.1	1414.4	1428.6
42.5°	1269.7	1278.5	1319.6	1346.5	1355.4
45°	1196.5	1205.4	1248.2	1273.3	1282.1
47.5°	1119.7	1134.0	1173.2	1198.3	1214.3
50°	1044.6	1057.2	1098.3	1123.2	1137.6
52.5°	964.3	982.2	1021.5	1046.4	1060.8
55°	889.3	908.9	944.7	971.4	987.5
57.5°	816.1	832.1	869.6	896.4	910.7
60°	737.5	757.1	794.6	819.7	833.9
62.5°	662.5	682.2	723.2	748.3	760.7
65°	587.5	607.2	650.0	675.0	687.5
67.5°	510.7	534.0	578.5	603.6	614.2
70°	437.6	464.3	508.9	534.0	542.8
72.5°	364.3	394.7	441.0	464.3	473.2
75°	294.7	328.6	375.0	396.5	401.8
77.5°	226.8	264.2	308.9	326.8	328.6
80°	164.3	201.8	242.9	248.2	246.4
82.5°	107.2	146.5	173.2	167.8	167.8
85°	60.7	91.0	101.8	96.4	92.8
87.5°	26.8	39.3	35.7	30.3	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)