

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: P166507

Luminaire Tested: **24ALNG-LD4-60-UNV-L830-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166507
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-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

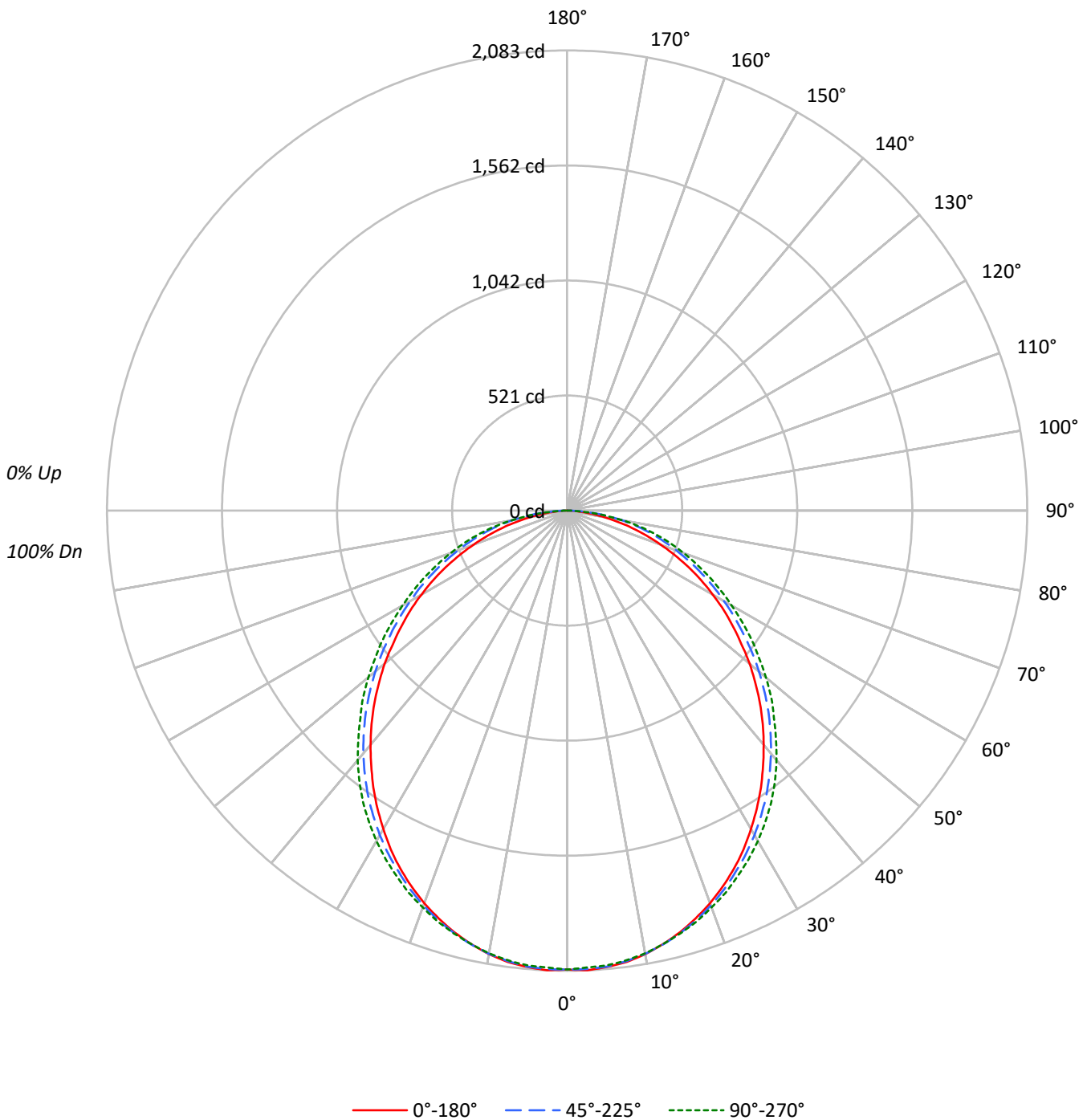
Lumens per Lamp: N/A
Luminaire Lumens: 5583.7 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2979	2979	2979
5°	2985	2982	2974
10°	2968	2966	2963
15°	2933	2939	2941
20°	2886	2903	2917
25°	2829	2855	2890
30°	2756	2808	2860
35°	2678	2752	2820
40°	2591	2688	2760
45°	2504	2613	2684
50°	2406	2529	2619
55°	2295	2438	2548
60°	2183	2352	2469
65°	2057	2277	2408
70°	1893	2203	2349
75°	1685	2145	2297
80°	1400	2070	2101
85°	1030	1729	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.5
10°-20°	557.3	10.0
20°-30°	830.9	14.9
30°-40°	980.3	17.6
40°-50°	988.6	17.7
50°-60°	868.5	15.6
60°-70°	657.1	11.8
70°-80°	394.2	7.1
80°-90°	110.4	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°	1584.6	28.4
0°-40°	2564.8	45.9
0°-60°	4421.9	79.2
0°-90°	5583.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2074	2064	2072	2068	2066	197
15°	1976	1969	1980	1982	1982	557
25°	1788	1786	1805	1816	1827	823
35°	1530	1534	1572	1596	1611	956
45°	1235	1244	1288	1314	1324	952
55°	918	938	975	1003	1019	822
65°	606	627	671	697	710	600
75°	304	339	387	409	415	323
85°	63	94	105	100	96	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.4	2077.4	2077.4	2077.4	2077.4
2.5°	2082.9	2071.9	2077.4	2077.4	2070.0
5°	2073.7	2064.5	2071.9	2068.2	2066.4
7.5°	2060.8	2049.7	2057.1	2055.2	2053.4
10°	2038.7	2027.6	2036.9	2035.0	2035.0
12.5°	2009.2	2001.8	2011.1	2009.2	2009.2
15°	1976.0	1968.7	1979.7	1981.5	1981.5
17.5°	1935.5	1929.9	1942.8	1946.5	1950.2
20°	1891.2	1887.6	1902.3	1904.1	1911.5
22.5°	1841.5	1837.8	1856.3	1863.6	1872.8
25°	1788.0	1786.2	1804.6	1815.7	1826.7
27.5°	1729.0	1729.0	1752.9	1767.7	1778.7
30°	1664.5	1668.2	1695.8	1714.3	1727.1
32.5°	1598.1	1603.7	1635.0	1657.2	1670.0
35°	1530.0	1533.7	1572.3	1596.3	1611.1
37.5°	1456.2	1465.4	1504.2	1530.0	1544.7
40°	1384.3	1393.5	1435.9	1459.9	1474.6
42.5°	1310.6	1319.8	1362.2	1389.8	1399.0
45°	1235.0	1244.2	1288.5	1314.3	1323.5
47.5°	1155.8	1170.5	1211.1	1236.9	1253.5
50°	1078.4	1091.2	1133.6	1159.4	1174.2
52.5°	995.3	1013.8	1054.4	1080.2	1094.9
55°	917.9	938.2	975.1	1002.8	1019.3
57.5°	842.4	859.0	897.7	925.4	940.1
60°	761.3	781.6	820.2	846.1	860.8
62.5°	683.9	704.2	746.6	772.4	785.2
65°	606.4	626.7	671.0	696.8	709.7
67.5°	527.2	551.2	597.3	623.1	634.1
70°	451.6	479.3	525.4	551.2	560.3
72.5°	376.0	407.4	455.3	479.3	488.4
75°	304.1	339.1	387.1	409.2	414.7
77.5°	234.1	272.8	318.9	337.3	339.1
80°	169.6	208.3	250.7	256.2	254.4
82.5°	110.6	151.2	178.8	173.3	173.3
85°	62.6	94.0	105.1	99.5	95.9
87.5°	27.6	40.6	36.8	31.3	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)