

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: P166517

Luminaire Tested: **24ALNG-LD4-60-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166517
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-L835-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

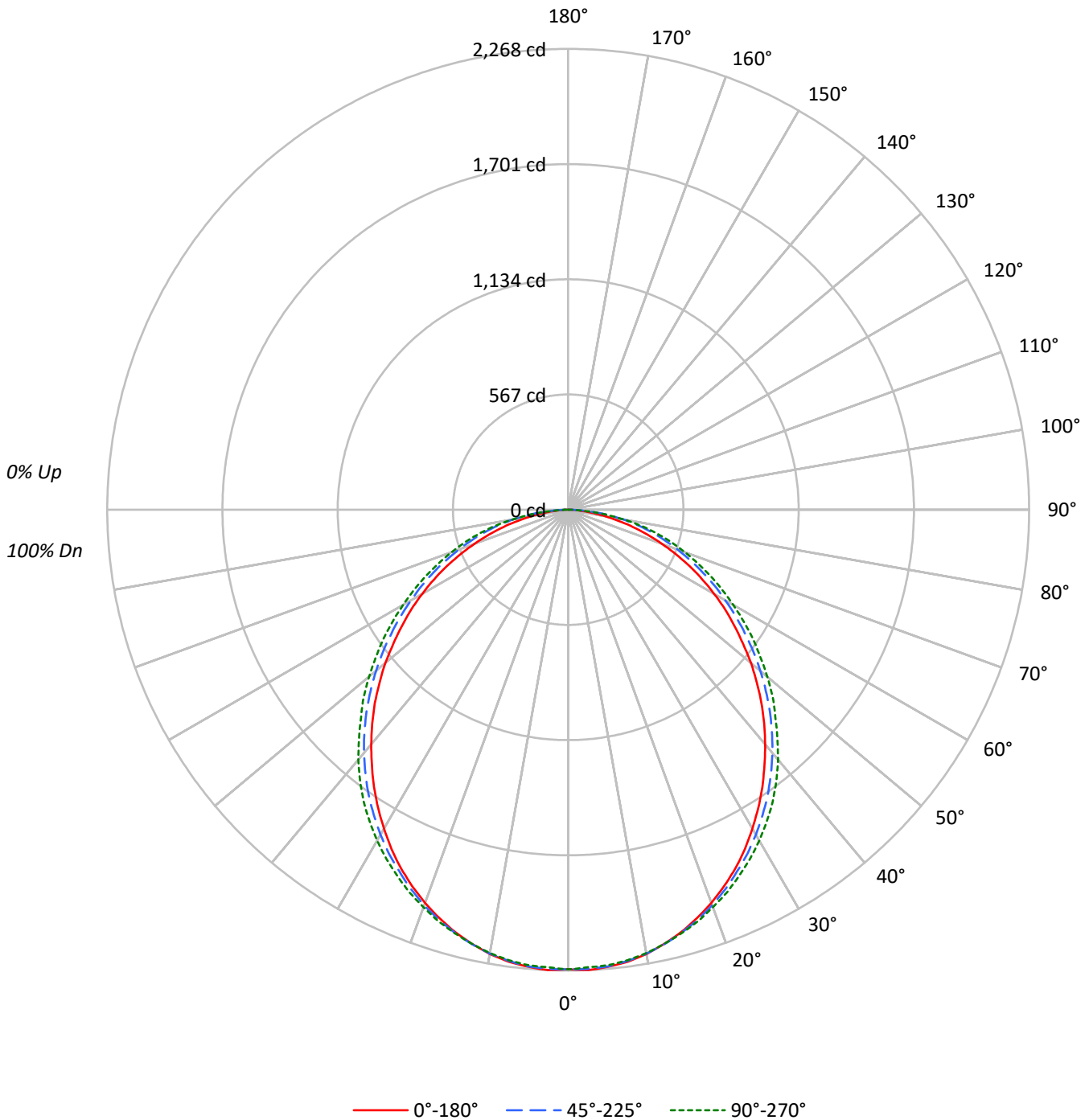
Lumens per Lamp: N/A
Luminaire Lumens: 6080.5 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3244	3244	3244
5°	3250	3247	3239
10°	3232	3230	3227
15°	3194	3200	3203
20°	3143	3161	3176
25°	3080	3109	3147
30°	3001	3058	3114
35°	2916	2997	3071
40°	2822	2927	3006
45°	2727	2845	2922
50°	2619	2754	2852
55°	2499	2655	2775
60°	2377	2561	2688
65°	2241	2479	2622
70°	2062	2398	2558
75°	1835	2335	2502
80°	1525	2254	2287
85°	1122	1882	1718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	3.5
10°-20°	606.9	10.0
20°-30°	904.8	14.9
30°-40°	1067.5	17.6
40°-50°	1076.6	17.7
50°-60°	945.8	15.6
60°-70°	715.6	11.8
70°-80°	429.3	7.1
80°-90°	120.2	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°	1725.5	28.4
0°-40°	2793.0	45.9
0°-60°	4815.3	79.2
0°-90°	6080.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2258	2248	2256	2252	2250	214
15°	2152	2144	2156	2158	2158	606
25°	1947	1945	1965	1977	1989	896
35°	1666	1670	1712	1738	1754	1041
45°	1345	1355	1403	1431	1441	1036
55°	1000	1022	1062	1092	1110	895
65°	660	682	731	759	773	653
75°	331	369	422	446	452	352
85°	68	102	114	108	104	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2262.2	2262.2	2262.2	2262.2	2262.2
2.5°	2268.2	2256.2	2262.2	2262.2	2254.2
5°	2258.2	2248.2	2256.2	2252.2	2250.2
7.5°	2244.2	2232.1	2240.1	2238.1	2236.1
10°	2220.1	2208.0	2218.1	2216.1	2216.1
12.5°	2188.0	2179.9	2190.0	2188.0	2188.0
15°	2151.8	2143.8	2155.8	2157.8	2157.8
17.5°	2107.7	2101.6	2115.7	2119.7	2123.7
20°	2059.5	2055.5	2071.5	2073.5	2081.6
22.5°	2005.3	2001.3	2021.4	2029.4	2039.4
25°	1947.1	1945.1	1965.1	1977.2	1989.2
27.5°	1882.8	1882.8	1908.9	1925.0	1937.0
30°	1812.6	1816.6	1846.7	1866.8	1880.8
32.5°	1740.3	1746.4	1780.5	1804.6	1818.6
35°	1666.1	1670.1	1712.2	1738.3	1754.4
37.5°	1585.8	1595.8	1638.0	1666.1	1682.1
40°	1507.5	1517.5	1563.7	1589.8	1605.8
42.5°	1427.2	1437.2	1483.4	1513.5	1523.5
45°	1344.9	1354.9	1403.1	1431.2	1441.2
47.5°	1258.6	1274.6	1318.8	1346.9	1365.0
50°	1174.3	1188.3	1234.5	1262.6	1278.7
52.5°	1083.9	1104.0	1148.2	1176.3	1192.3
55°	999.6	1021.7	1061.9	1092.0	1110.0
57.5°	917.3	935.4	977.6	1007.7	1023.7
60°	829.0	851.1	893.2	921.4	937.4
62.5°	744.7	766.8	813.0	841.1	855.1
65°	660.4	682.5	730.7	758.8	772.8
67.5°	574.1	600.2	650.4	678.5	690.5
70°	491.8	521.9	572.1	600.2	610.2
72.5°	409.5	443.6	495.8	521.9	531.9
75°	331.2	369.3	421.5	445.6	451.6
77.5°	254.9	297.1	347.3	367.3	369.3
80°	184.7	226.8	273.0	279.0	277.0
82.5°	120.4	164.6	194.7	188.7	188.7
85°	68.2	102.4	114.4	108.4	104.4
87.5°	30.1	44.2	40.1	34.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)