

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: P166512

Luminaire Tested: **24ALNG-LD4-36-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166512
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-LD4-36-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

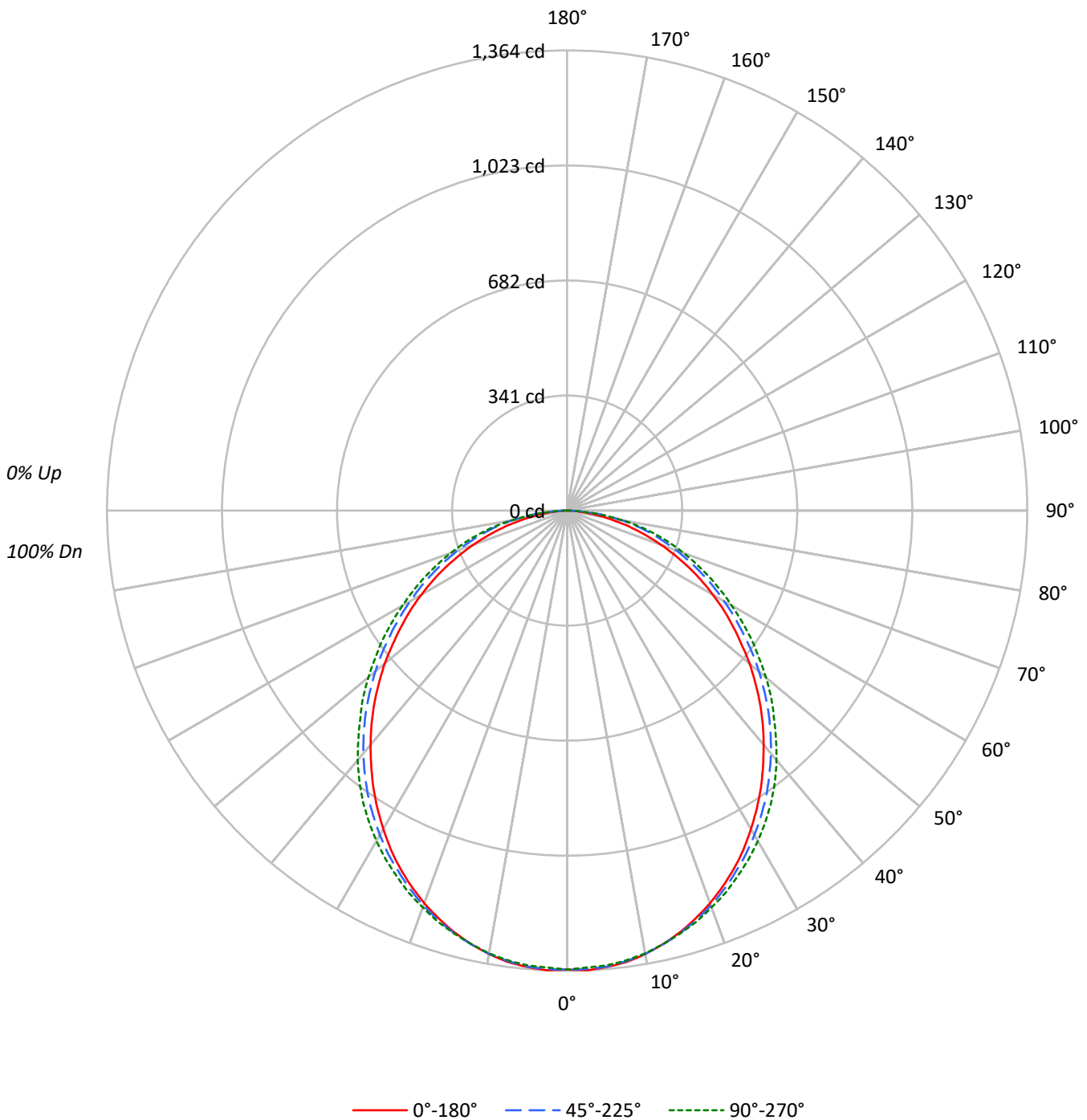
Lumens per Lamp: N/A
Luminaire Lumens: 3656.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
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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CATALOG NUMBER: 24ALNG-LD4-36-UNV-L835-CD1-U

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°	1950	1950	1950
5°	1954	1953	1947
10°	1944	1942	1940
15°	1921	1924	1926
20°	1890	1901	1910
25°	1852	1870	1892
30°	1805	1838	1873
35°	1754	1802	1847
40°	1697	1760	1807
45°	1640	1711	1757
50°	1575	1656	1715
55°	1503	1596	1669
60°	1430	1540	1617
65°	1347	1490	1577
70°	1240	1442	1538
75°	1104	1404	1505
80°	917	1356	1376
85°	675	1132	1033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.5
10°-20°	364.9	10.0
20°-30°	544.1	14.9
30°-40°	641.9	17.6
40°-50°	647.3	17.7
50°-60°	568.7	15.6
60°-70°	430.3	11.8
70°-80°	258.2	7.1
80°-90°	72.3	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°	1037.6	28.4
0°-40°	1679.4	45.9
0°-60°	2895.5	79.2
0°-90°	3656.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1358	1352	1357	1354	1353	129
15°	1294	1289	1296	1298	1298	365
25°	1171	1170	1182	1189	1196	539
35°	1002	1004	1030	1045	1055	626
45°	809	815	844	861	867	623
55°	601	614	638	657	668	538
65°	397	410	439	456	465	393
75°	199	222	254	268	272	211
85°	41	62	69	65	63	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.3	1360.3	1360.3	1360.3	1360.3
2.5°	1363.9	1356.7	1360.3	1360.3	1355.5
5°	1357.9	1351.8	1356.7	1354.3	1353.0
7.5°	1349.4	1342.2	1347.0	1345.8	1344.6
10°	1334.9	1327.7	1333.7	1332.5	1332.5
12.5°	1315.6	1310.8	1316.8	1315.6	1315.6
15°	1293.9	1289.1	1296.3	1297.5	1297.5
17.5°	1267.4	1263.7	1272.2	1274.6	1277.0
20°	1238.4	1236.0	1245.6	1246.8	1251.7
22.5°	1205.8	1203.4	1215.4	1220.3	1226.3
25°	1170.8	1169.6	1181.7	1188.9	1196.1
27.5°	1132.2	1132.2	1147.9	1157.5	1164.8
30°	1089.9	1092.3	1110.4	1122.5	1131.0
32.5°	1046.5	1050.1	1070.6	1085.1	1093.5
35°	1001.8	1004.2	1029.6	1045.3	1054.9
37.5°	953.5	959.6	984.9	1001.8	1011.5
40°	906.5	912.5	940.3	955.9	965.6
42.5°	858.2	864.2	892.0	910.1	916.1
45°	808.7	814.7	843.7	860.6	866.6
47.5°	756.8	766.4	793.0	809.9	820.8
50°	706.1	714.5	742.3	759.2	768.9
52.5°	651.8	663.8	690.4	707.3	717.0
55°	601.1	614.4	638.5	656.6	667.5
57.5°	551.6	562.5	587.8	605.9	615.6
60°	498.5	511.8	537.1	554.0	563.7
62.5°	447.8	461.1	488.8	505.7	514.2
65°	397.1	410.4	439.3	456.2	464.7
67.5°	345.2	360.9	391.1	408.0	415.2
70°	295.7	313.8	344.0	360.9	366.9
72.5°	246.2	266.7	298.1	313.8	319.9
75°	199.2	222.1	253.5	268.0	271.6
77.5°	153.3	178.6	208.8	220.9	222.1
80°	111.0	136.4	164.2	167.8	166.6
82.5°	72.4	99.0	117.1	113.5	113.5
85°	41.0	61.6	68.8	65.2	62.8
87.5°	18.1	26.6	24.1	20.5	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)