

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: P166474

Luminaire Tested: **22ALNG-LD4-25-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166474
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-25-UNV-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

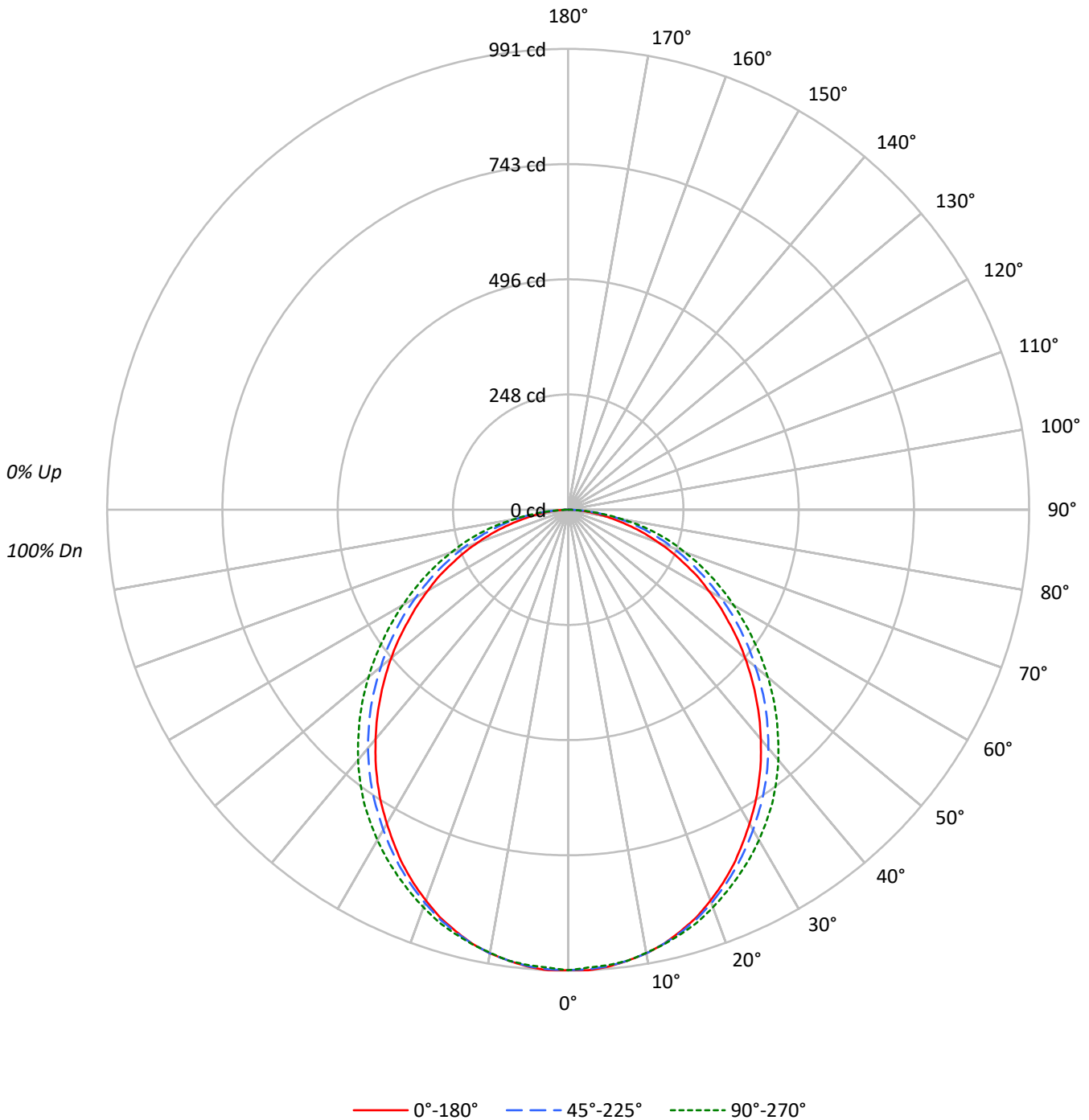
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2615.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	2901	2901	2901
5°	2902	2898	2891
10°	2882	2882	2878
15°	2844	2851	2862
20°	2789	2808	2837
25°	2721	2752	2806
30°	2637	2690	2775
35°	2557	2629	2741
40°	2464	2560	2688
45°	2366	2485	2625
50°	2265	2396	2554
55°	2153	2312	2477
60°	2042	2217	2407
65°	1918	2133	2349
70°	1774	2052	2277
75°	1586	1979	2237
80°	1353	1878	2000
85°	1086	1530	1489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.6
10°-20°	265.1	10.1
20°-30°	392.8	15.0
30°-40°	461.1	17.6
40°-50°	463.0	17.7
50°-60°	404.8	15.5
60°-70°	304.3	11.6
70°-80°	181.1	6.9
80°-90°	49.7	1.9
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°	751.4	28.7
0°-40°	1212.6	46.4
0°-60°	2080.4	79.5
0°-90°	2615.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2615.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	987	987	985	984	983	94
15°	938	939	940	944	944	264
25°	842	843	851	863	868	387
35°	715	720	735	757	766	447
45°	571	578	600	623	633	441
55°	421	430	453	474	485	378
65°	277	285	308	327	339	275
75°	140	152	175	190	198	149
85°	32	40	46	46	44	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.2	990.2	990.2	990.2	990.2
2.5°	991.4	990.2	989.0	986.6	985.4
5°	986.6	986.6	985.4	984.2	983.0
7.5°	978.2	979.4	978.2	978.2	978.2
10°	968.6	969.8	968.6	968.6	967.4
12.5°	955.4	955.4	955.4	956.6	956.6
15°	937.5	938.7	939.9	943.5	943.5
17.5°	918.3	918.3	921.9	927.9	929.1
20°	894.4	895.6	900.4	907.6	909.9
22.5°	869.2	870.4	876.4	886.0	889.6
25°	841.7	842.9	851.3	863.3	868.0
27.5°	810.6	813.0	823.7	839.3	845.3
30°	779.4	783.0	795.0	813.0	820.2
32.5°	748.3	751.9	765.1	785.4	793.8
35°	714.8	719.6	735.1	756.7	766.3
37.5°	680.1	684.9	702.8	725.6	735.1
40°	644.1	650.1	669.3	692.0	702.8
42.5°	608.2	614.2	634.6	657.3	668.1
45°	571.1	578.3	599.8	622.6	633.4
47.5°	534.0	541.2	562.7	585.5	597.5
50°	496.9	504.1	525.6	548.4	560.3
52.5°	459.8	466.9	489.7	511.2	523.2
55°	421.4	429.8	452.6	474.1	484.9
57.5°	385.5	392.7	416.7	437.0	447.8
60°	348.4	356.8	378.3	398.7	410.7
62.5°	316.1	319.7	343.6	362.8	374.8
65°	276.6	285.0	307.7	326.9	338.8
67.5°	243.1	250.2	273.0	293.3	302.9
70°	207.1	216.7	239.5	257.4	265.8
72.5°	173.6	183.2	207.1	225.1	233.5
75°	140.1	152.1	174.8	190.4	197.6
77.5°	109.0	122.1	142.5	156.8	160.4
80°	80.2	92.2	111.3	117.3	118.5
82.5°	55.1	65.9	77.8	80.2	80.2
85°	32.3	39.5	45.5	45.5	44.3
87.5°	14.4	16.8	15.6	14.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)