

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: P166479

Luminaire Tested: **22ALNG-LD4-20-UNV-L840-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166479
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-20-UNV-L840-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

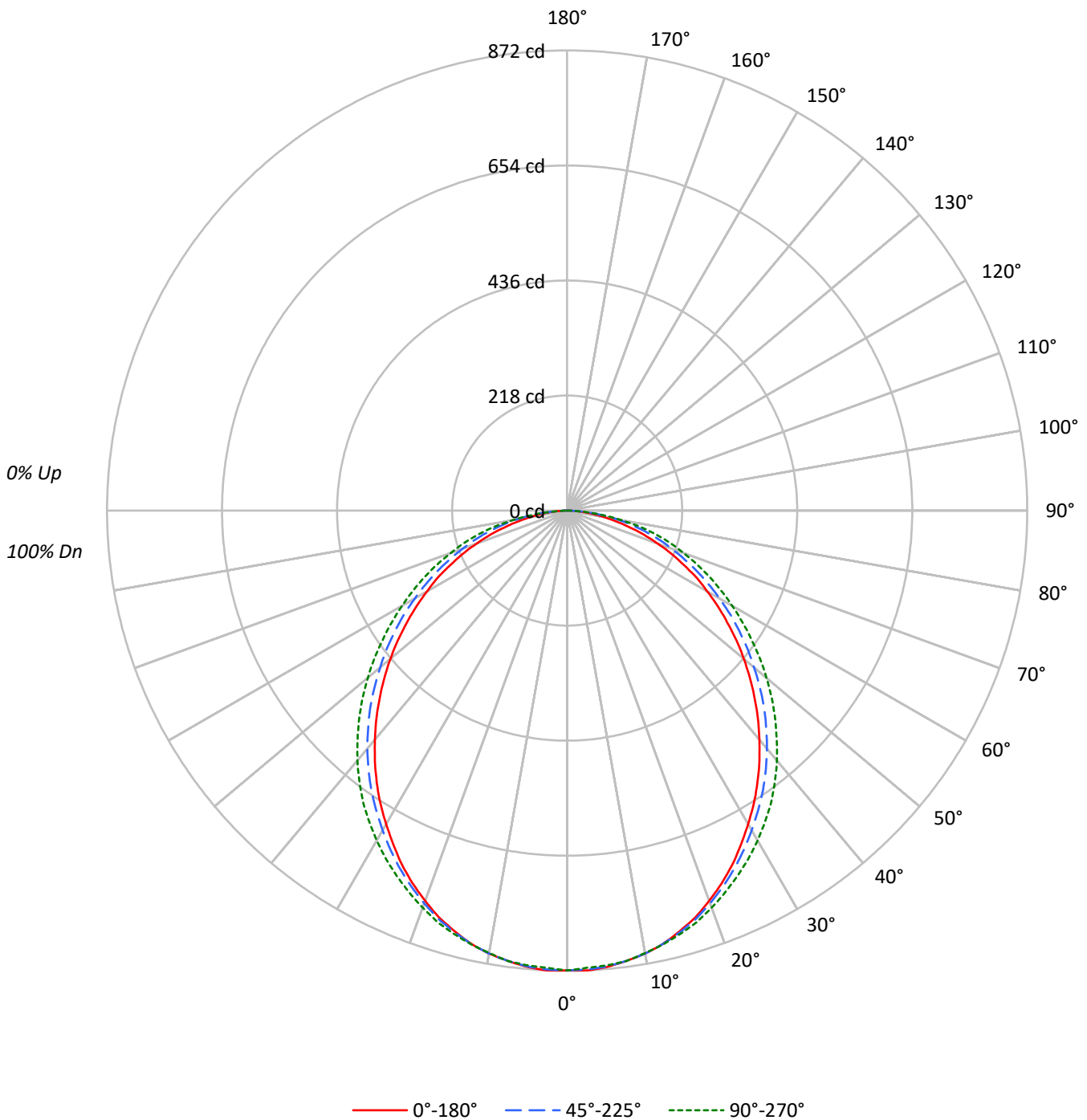
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2301.6 lumens
Efficiency: N/A
Efficacy: 113.4 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): 20.3
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°	2553	2553	2553
5°	2554	2550	2544
10°	2536	2536	2533
15°	2503	2509	2518
20°	2454	2470	2497
25°	2395	2422	2470
30°	2321	2367	2442
35°	2250	2314	2412
40°	2168	2253	2366
45°	2083	2187	2310
50°	1993	2108	2248
55°	1895	2035	2180
60°	1797	1951	2118
65°	1688	1877	2067
70°	1562	1805	2004
75°	1396	1741	1968
80°	1191	1654	1760
85°	955	1345	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.6
10°-20°	233.3	10.1
20°-30°	345.7	15.0
30°-40°	405.8	17.6
40°-50°	407.5	17.7
50°-60°	356.2	15.5
60°-70°	267.8	11.6
70°-80°	159.3	6.9
80°-90°	43.7	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°	661.2	28.7
0°-40°	1067.0	46.4
0°-60°	1830.7	79.5
0°-90°	2301.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	868	868	867	866	865	82
15°	825	826	827	830	830	232
25°	741	742	749	760	764	341
35°	629	633	647	666	674	393
45°	503	509	528	548	557	388
55°	371	378	398	417	427	332
65°	243	251	271	288	298	242
75°	123	134	154	168	174	131
85°	28	35	40	40	39	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.3	871.3	871.3	871.3	871.3
2.5°	872.4	871.3	870.3	868.2	867.1
5°	868.2	868.2	867.1	866.1	865.0
7.5°	860.8	861.8	860.8	860.8	860.8
10°	852.4	853.4	852.4	852.4	851.3
12.5°	840.8	840.8	840.8	841.8	841.8
15°	825.0	826.0	827.1	830.2	830.2
17.5°	808.1	808.1	811.3	816.5	817.6
20°	787.0	788.1	792.3	798.6	800.7
22.5°	764.9	766.0	771.2	779.7	782.8
25°	740.7	741.7	749.1	759.6	763.9
27.5°	713.3	715.4	724.9	738.6	743.8
30°	685.9	689.1	699.6	715.4	721.7
32.5°	658.5	661.7	673.3	691.2	698.5
35°	629.0	633.2	646.9	665.9	674.3
37.5°	598.4	602.7	618.5	638.5	646.9
40°	566.8	572.1	589.0	609.0	618.5
42.5°	535.2	540.5	558.4	578.4	587.9
45°	502.6	508.9	527.9	547.9	557.4
47.5°	469.9	476.2	495.2	515.2	525.7
50°	437.2	443.6	462.5	482.5	493.1
52.5°	404.6	410.9	430.9	449.9	460.4
55°	370.9	378.2	398.3	417.2	426.7
57.5°	339.3	345.6	366.7	384.6	394.0
60°	306.6	314.0	332.9	350.8	361.4
62.5°	278.2	281.3	302.4	319.2	329.8
65°	243.4	250.8	270.8	287.6	298.2
67.5°	213.9	220.2	240.2	258.1	266.6
70°	182.3	190.7	210.7	226.5	233.9
72.5°	152.8	161.2	182.3	198.1	205.5
75°	123.3	133.8	153.8	167.5	173.8
77.5°	95.9	107.5	125.4	138.0	141.2
80°	70.6	81.1	98.0	103.3	104.3
82.5°	48.5	57.9	68.5	70.6	70.6
85°	28.4	34.8	40.0	40.0	39.0
87.5°	12.6	14.8	13.7	12.6	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)