

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: P166473

Luminaire Tested: **22ALNG-LD4-20-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166473
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-L835-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

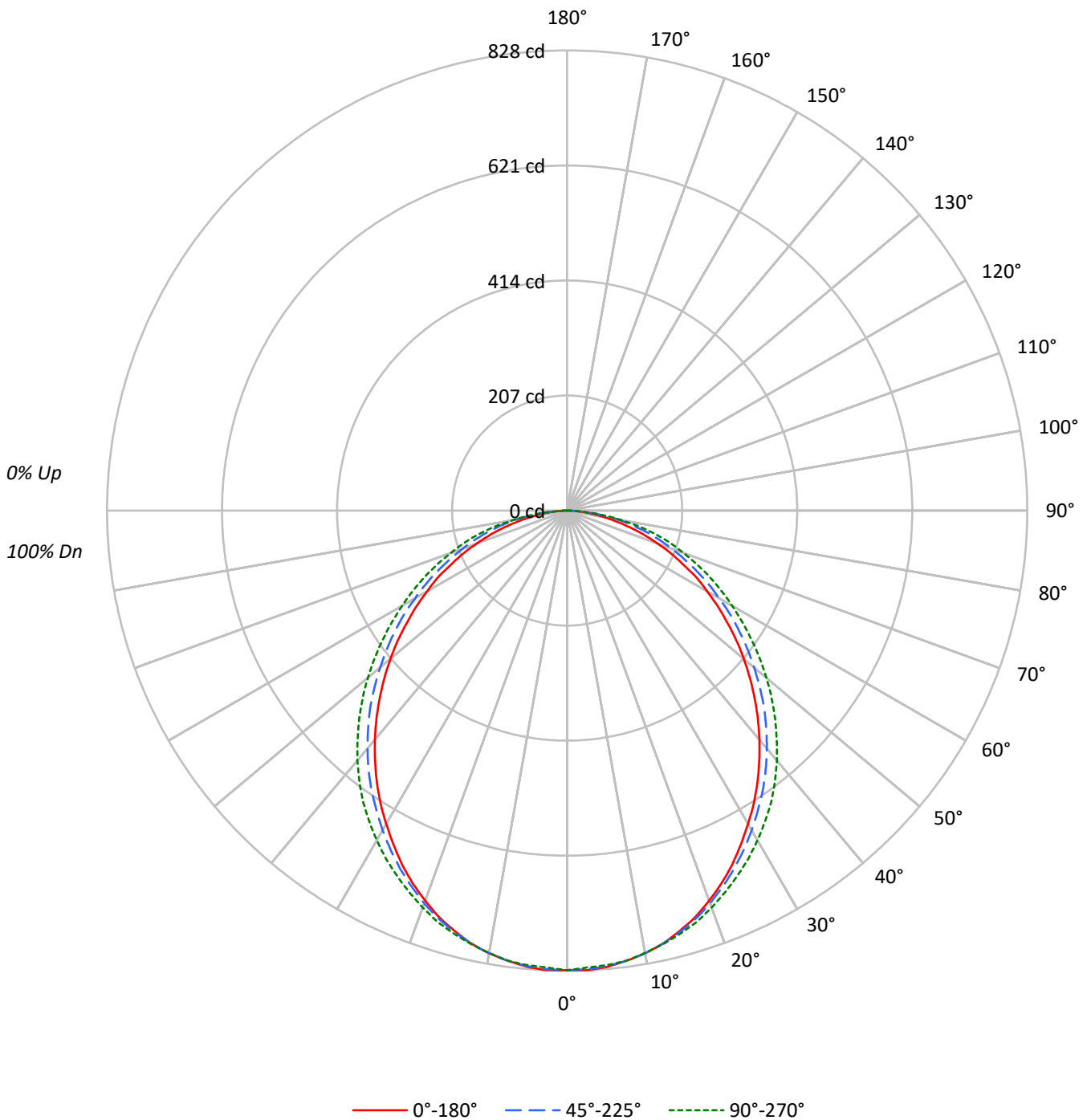
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.5 lumens
Efficiency: N/A
Efficacy: 107.6 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°	2423	2423	2423
5°	2424	2421	2415
10°	2407	2407	2404
15°	2375	2381	2390
20°	2329	2345	2370
25°	2273	2299	2344
30°	2203	2247	2318
35°	2135	2196	2289
40°	2058	2138	2245
45°	1977	2076	2192
50°	1892	2001	2133
55°	1798	1931	2069
60°	1705	1852	2010
65°	1602	1782	1962
70°	1482	1713	1902
75°	1325	1653	1868
80°	1131	1569	1670
85°	908	1278	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.6
10°-20°	221.4	10.1
20°-30°	328.1	15.0
30°-40°	385.1	17.6
40°-50°	386.7	17.7
50°-60°	338.1	15.5
60°-70°	254.2	11.6
70°-80°	151.2	6.9
80°-90°	41.5	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°	627.6	28.7
0°-40°	1012.7	46.4
0°-60°	1737.6	79.5
0°-90°	2184.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	824	824	823	822	821	78
15°	783	784	785	788	788	221
25°	703	704	711	721	725	323
35°	597	601	614	632	640	373
45°	477	483	501	520	529	368
55°	352	359	378	396	405	315
65°	231	238	257	273	283	230
75°	117	127	146	159	165	125
85°	27	33	38	38	37	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827	827	827	827	827
2.5°	828	827	826	824	823
5°	824	824	823	822	821
7.5°	817	818	817	817	817
10°	809	810	809	809	808
12.5°	798	798	798	799	799
15°	783	784	785	788	788
17.5°	767	767	770	775	776
20°	747	748	752	758	760
22.5°	726	727	732	740	743
25°	703	704	711	721	725
27.5°	677	679	688	701	706
30°	651	654	664	679	685
32.5°	625	628	639	656	663
35°	597	601	614	632	640
37.5°	568	572	587	606	614
40°	538	543	559	578	587
42.5°	508	513	530	549	558
45°	477	483	501	520	529
47.5°	446	452	470	489	499
50°	415	421	439	458	468
52.5°	384	390	409	427	437
55°	352	359	378	396	405
57.5°	322	328	348	365	374
60°	291	298	316	333	343
62.5°	264	267	287	303	313
65°	231	238	257	273	283
67.5°	203	209	228	245	253
70°	173	181	200	215	222
72.5°	145	153	173	188	195
75°	117	127	146	159	165
77.5°	91	102	119	131	134
80°	67	77	93	98	99
82.5°	46	55	65	67	67
85°	27	33	38	38	37
87.5°	12	14	13	12	10
90°	0	0	0	0	0

(END OF REPORT)