

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: P31280

Luminaire Tested: **ALN-132-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31280
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ALN-132-UNV-EB81-U
Description: METALUX 1X4 ARCLINE LFL FIXTURE WITH LENS
Light Source: (1) BIPIN T8 DOUBLE ENDED 32W LINEAR FLUORESCENT LAMP 3500K, 3100 EA
Ballast/Driver: -
QTP1X32T8/UNV ISN SC

Summary

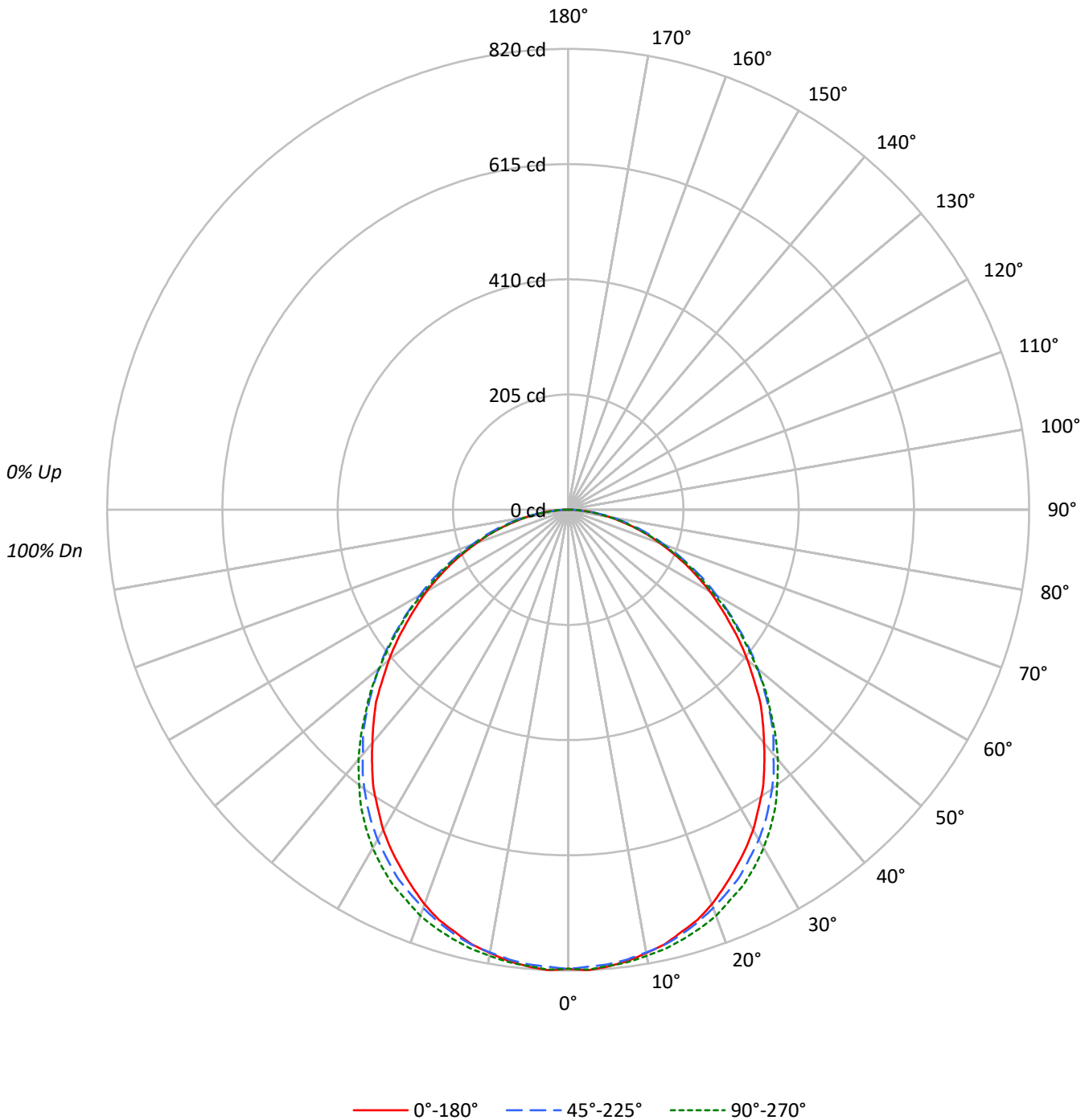
Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2141.6 lumens
Efficiency: 69.1%
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.33
Luminous Opening: Rectangular (W 0.77' x L: 3.77' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	82	82	82	82	80	80	80	80	77	77	77	73	73	73	70	70	70	69																												
1	75	72	69	67	73	71	68	66	68	65	64	65	63	62	62	61	60	58																												
2	69	63	59	55	67	62	58	54	59	56	53	57	54	52	55	53	50	49																												
3	63	56	50	46	61	55	49	45	53	48	45	51	47	44	49	46	43	42																												
4	58	49	44	39	56	49	43	39	47	42	38	45	41	38	44	40	37	36																												
5	53	44	38	34	52	44	38	34	42	37	33	41	36	33	39	36	32	31																												
6	49	40	34	30	48	39	34	29	38	33	29	37	32	29	36	32	29	27																												
7	46	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	24																												
8	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	22																												
9	40	31	25	21	39	30	25	21	29	24	21	29	24	21	28	24	21	20																												
10	37	28	23	19	36	28	23	19	27	22	19	27	22	19	26	22	19	18																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3025	3025	3025
5°	3033	3018	3030
10°	3012	3008	3031
15°	2983	2998	3033
20°	2944	2971	3030
25°	2877	2946	3011
30°	2814	2899	2972
35°	2731	2834	2907
40°	2620	2746	2804
45°	2530	2650	2666
50°	2397	2535	2523
55°	2266	2395	2369
60°	2155	2259	2207
65°	2024	2121	2077
70°	1873	1971	1906
75°	1731	1860	1746
80°	1578	1727	1514
85°	1445	1360	1275



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	77.4	3.6	2.5	0°	817	817	817	817	817	
10°-20°	221.2	10.3	7.1	5°	816	816	812	816	815	77
20°-30°	332.0	15.5	10.7	15°	778	781	782	789	791	220
30°-40°	390.5	18.2	12.6	25°	704	711	721	733	737	324
40°-50°	386.2	18.0	12.5	35°	604	610	627	639	643	377
50°-60°	327.5	15.3	10.6	45°	483	492	506	510	509	371
60°-70°	235.8	11.0	7.6	55°	351	364	371	370	367	315
70°-80°	133.2	6.2	4.3	65°	231	235	242	238	237	229
80°-90°	37.8	1.8	1.2	75°	121	125	130	124	122	129
90°-100°	0.0	0.0	0.0	85°	34	37	32	30	30	38
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	630.6	29.4	20.3							
0°-40°	1021.0	47.7	32.9							
0°-60°	1734.8	81.0	56.0							
0°-90°	2141.6	100.0	69.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2141.6	100.0	69.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817	817	817	817	817
2.5°	820	819	814	817	819
5°	816	816	812	816	815
7.5°	810	810	807	812	812
10°	801	801	800	805	806
12.5°	792	793	793	798	800
15°	778	781	782	789	791
17.5°	765	766	769	779	781
20°	747	749	754	766	769
22.5°	726	730	738	751	752
25°	704	711	721	733	737
27.5°	682	689	699	714	717
30°	658	664	678	691	695
32.5°	630	639	654	667	670
35°	604	610	627	639	643
37.5°	573	583	600	610	611
40°	542	554	568	578	580
42.5°	512	524	540	544	546
45°	483	492	506	510	509
47.5°	448	460	472	475	476
50°	416	428	440	441	438
52.5°	384	395	406	405	402
55°	351	364	371	370	367
57.5°	320	331	338	335	335
60°	291	297	305	302	298
62.5°	260	267	275	270	266
65°	231	235	242	238	237
67.5°	201	208	213	208	206
70°	173	180	182	179	176
72.5°	148	153	156	151	149
75°	121	125	130	124	122
77.5°	96	101	104	98	99
80°	74	78	81	75	71
82.5°	52	57	56	51	50
85°	34	37	32	30	30
87.5°	15	16	15	12	13
90°	0	0	0	0	0

(END OF REPORT)