

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: P31450

Luminaire Tested: **2ALNG-217-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31450
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-217-UNV-EB81-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS
Light Source: (2) GE BIPIN T8 DOUBLE ENDED 17W LINEAR FLUORESCENT LAMP 3500K, 1350 EA
Ballast/Driver: -
GE332-MVPS-N

Summary

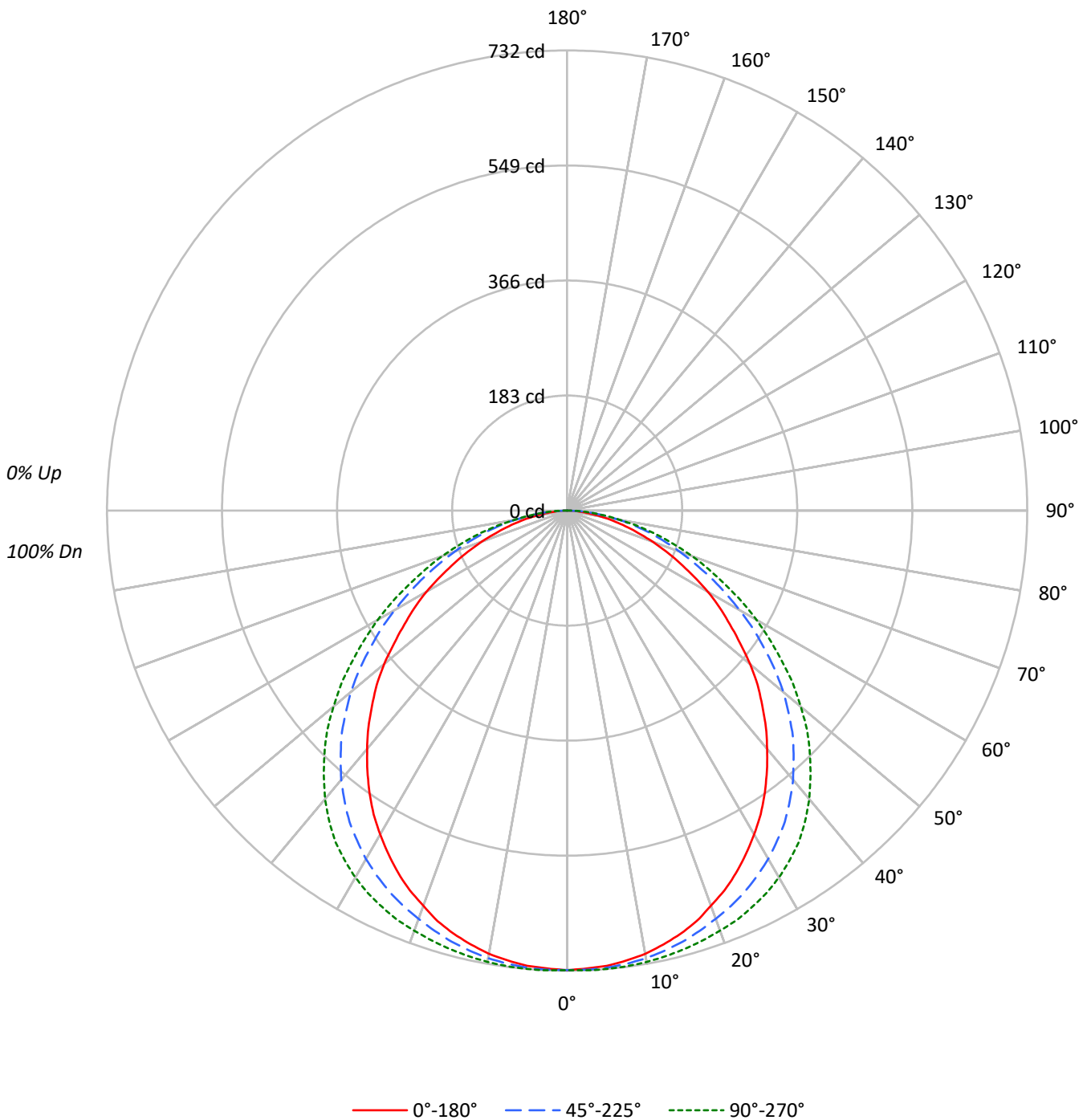
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2091.7 lumens
Efficiency: 77.5%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.36 / 1.41
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 35.7
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77
1	84	81	77	74	82	79	76	73	76	73	71	73	71	69	70	68	67	65
2	77	70	65	61	75	69	64	60	66	62	59	64	60	57	61	58	56	54
3	70	62	56	51	68	61	55	50	58	53	49	56	52	48	54	51	47	46
4	64	55	48	43	62	54	47	43	52	46	42	50	45	41	48	44	41	39
5	59	49	42	37	57	48	42	37	46	41	36	45	40	36	44	39	35	34
6	54	44	37	32	53	43	37	32	42	36	32	41	35	31	39	35	31	30
7	50	40	33	28	49	39	33	28	38	32	28	37	32	28	36	31	28	26
8	47	36	30	25	46	36	30	25	35	29	25	34	29	25	33	28	25	23
9	44	33	27	23	43	33	27	23	32	27	23	31	26	22	30	26	22	21
10	41	31	25	21	40	30	25	21	30	24	21	29	24	20	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2505	2515	2522
10°	2496	2520	2541
15°	2477	2523	2566
20°	2444	2524	2597
25°	2409	2534	2636
30°	2358	2537	2671
35°	2296	2531	2694
40°	2218	2505	2684
45°	2131	2466	2650
50°	2029	2398	2590
55°	1891	2292	2496
60°	1778	2176	2389
65°	1608	2047	2242
70°	1445	1907	2118
75°	1273	1790	1950
80°	1067	1641	1680
85°	866	1378	1497



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	69.4	3.3	2.6	0°	731	731	731	731	731	
10°-20°	200.4	9.6	7.4	5°	727	728	730	731	732	69
20°-30°	307.7	14.7	11.4	15°	697	701	710	718	722	196
30°-40°	374.6	17.9	13.9	25°	636	647	669	689	696	293
40°-50°	385.5	18.4	14.3	35°	548	567	604	632	643	342
50°-60°	336.1	16.1	12.4	45°	439	465	508	537	546	339
60°-70°	243.3	11.6	9.0	55°	316	344	383	409	417	284
70°-80°	136.4	6.5	5.1	65°	198	218	252	273	276	197
80°-90°	38.3	1.8	1.4	75°	96	112	135	146	147	103
90°-100°	0.0	0.0	0.0	85°	22	30	35	39	38	26
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°	577.5	27.6	21.4							
0°-40°	952.1	45.5	35.3							
0°-60°	1673.7	80.0	62.0							
0°-90°	2091.7	100.0	77.5							
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°	2091.7	100.0	77.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731	731	731	731	731
2.5°	729	730	731	732	732
5°	727	728	730	731	732
7.5°	722	724	727	729	731
10°	716	718	723	727	729
12.5°	707	711	717	723	726
15°	697	701	710	718	722
17.5°	685	689	701	713	717
20°	669	677	691	706	711
22.5°	654	662	681	698	705
25°	636	647	669	689	696
27.5°	616	629	655	678	686
30°	595	610	640	665	674
32.5°	573	589	622	651	659
35°	548	567	604	632	643
37.5°	522	543	582	612	622
40°	495	519	559	590	599
42.5°	468	492	533	566	573
45°	439	465	508	537	546
47.5°	411	437	478	507	518
50°	380	406	449	475	485
52.5°	347	375	417	443	453
55°	316	344	383	409	417
57.5°	288	313	351	375	382
60°	259	281	317	341	348
62.5°	227	251	283	305	313
65°	198	218	252	273	276
67.5°	171	191	219	239	243
70°	144	163	190	207	211
72.5°	119	137	162	176	178
75°	96	112	135	146	147
77.5°	75	89	108	115	117
80°	54	68	83	87	85
82.5°	37	48	59	60	60
85°	22	30	35	39	38
87.5°	10	12	15	18	19
90°	0	0	0	0	0

(END OF REPORT)