

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: P31455

Luminaire Tested: **2ALNG-214T5-SDL-UNV-EBT1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31455
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-214T5-SDL-UNV-EBT1-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS AND OVERLAY
Light Source: (2) GE BIPIN T5 DOUBLE ENDED 14W LINEAR FLUORESCENT LAMP 5000K, 1300 EA
Ballast/Driver: -
GE228MVPS-A

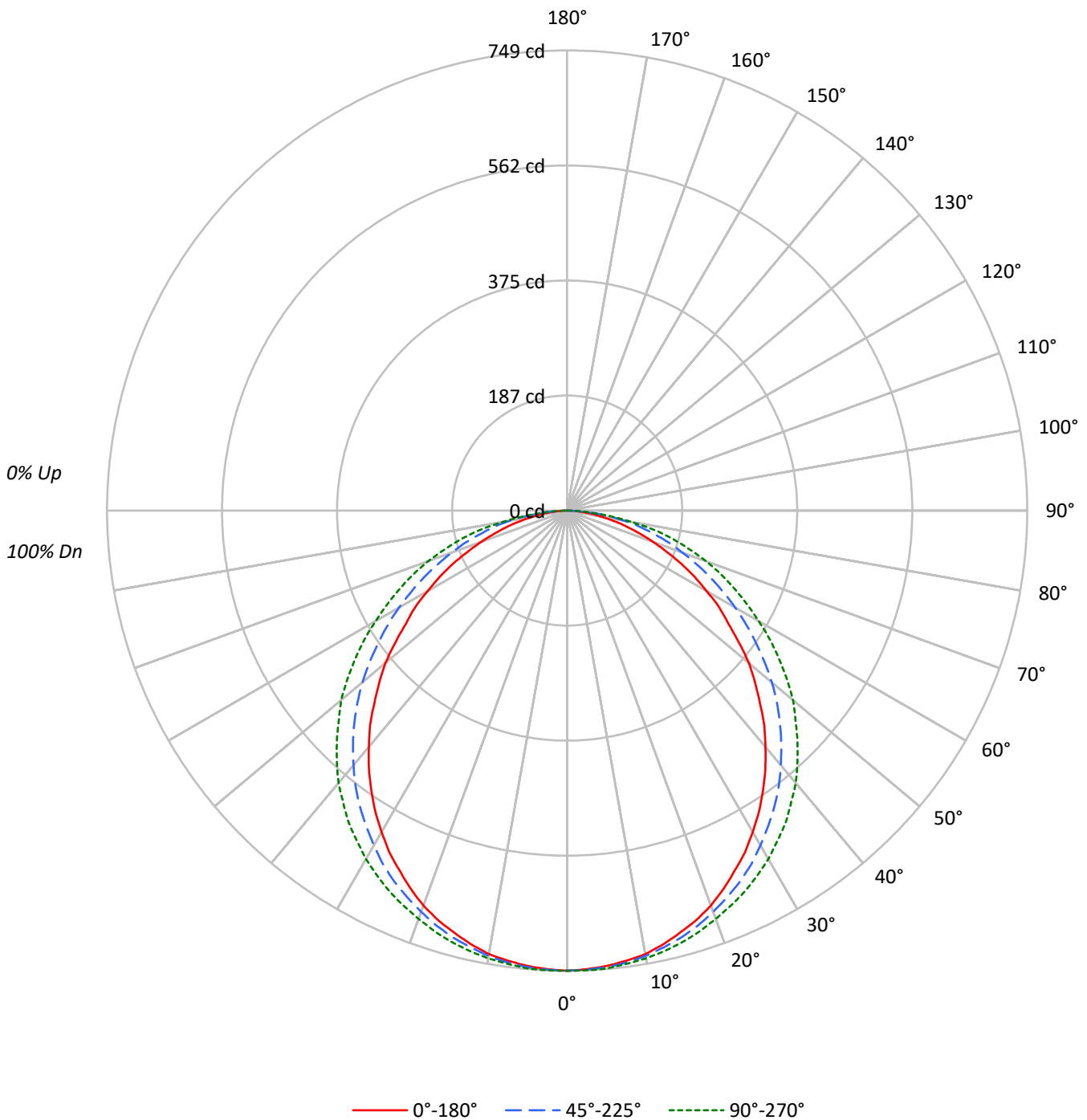
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2105.0 lumens
Efficiency: 81.0%
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.37
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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	50	30	10	0																
RCR																																														
0	96	96	96	96	94	94	94	94	90	90	90	86	86	86	83	83	83	81																												
1	88	84	81	77	86	82	79	76	79	76	74	76	73	71	73	71	69	68																												
2	80	73	68	63	78	72	67	62	69	64	61	66	63	59	64	61	58	56																												
3	73	64	58	52	71	63	57	52	61	55	51	58	54	50	56	52	49	47																												
4	67	57	50	44	65	56	49	44	54	48	43	52	47	43	50	46	42	40																												
5	61	51	44	38	60	50	43	38	48	42	38	47	41	37	45	40	37	35																												
6	57	46	39	33	55	45	38	33	44	37	33	42	37	33	41	36	32	31																												
7	53	42	34	29	51	41	34	29	40	34	29	38	33	29	37	32	29	27																												
8	49	38	31	26	48	37	31	26	36	30	26	35	30	26	34	29	26	24																												
9	46	35	28	24	45	34	28	24	33	28	23	33	27	23	32	27	23	22																												
10	43	32	26	21	42	32	26	21	31	25	21	30	25	21	29	25	21	20																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2571	2571	2571
5°	2564	2570	2577
10°	2555	2565	2579
15°	2527	2555	2583
20°	2499	2539	2583
25°	2447	2522	2591
30°	2394	2493	2596
35°	2330	2464	2598
40°	2249	2424	2594
45°	2155	2379	2573
50°	2061	2323	2563
55°	1915	2244	2519
60°	1799	2169	2471
65°	1665	2087	2437
70°	1495	1997	2409
75°	1326	1923	2361
80°	1127	1858	2095
85°	866	1536	1615



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	70.9	3.4	2.7	0°	749	749	749	749	749	
10°-20°	202.9	9.6	7.8	5°	744	745	746	747	748	71
20°-30°	306.7	14.6	11.8	15°	711	714	719	724	727	201
30°-40°	367.7	17.5	14.1	25°	646	653	666	679	684	298
40°-50°	377.1	17.9	14.5	35°	556	565	588	611	620	347
50°-60°	334.1	15.9	12.9	45°	444	459	490	520	530	343
60°-70°	252.4	12.0	9.7	55°	320	339	375	409	421	288
70°-80°	150.6	7.2	5.8	65°	205	220	257	290	300	203
80°-90°	42.6	2.0	1.6	75°	100	115	145	172	178	106
90°-100°	0.0	0.0	0.0	85°	22	32	39	41	41	27
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°	580.5	27.6	22.3							
0°-40°	948.1	45.0	36.5							
0°-60°	1659.4	78.8	63.8							
0°-90°	2105.0	100.0	81.0							
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°	2105.0	100.0	81.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749	749	749	749	749
2.5°	747	747	748	749	749
5°	744	745	746	747	748
7.5°	739	740	742	743	744
10°	733	733	736	739	740
12.5°	723	725	728	732	734
15°	711	714	719	724	727
17.5°	699	701	708	715	718
20°	684	687	695	705	707
22.5°	666	670	681	691	696
25°	646	653	666	679	684
27.5°	627	633	649	665	670
30°	604	612	629	647	655
32.5°	581	591	609	630	637
35°	556	565	588	611	620
37.5°	530	541	566	589	599
40°	502	515	541	568	579
42.5°	475	488	516	545	555
45°	444	459	490	520	530
47.5°	415	430	463	493	504
50°	386	400	435	467	480
52.5°	352	370	405	437	451
55°	320	339	375	409	421
57.5°	294	308	346	378	392
60°	262	279	316	350	360
62.5°	234	248	286	321	330
65°	205	220	257	290	300
67.5°	175	192	228	259	271
70°	149	165	199	229	240
72.5°	123	139	174	201	208
75°	100	115	145	172	178
77.5°	77	92	121	140	146
80°	57	71	94	104	106
82.5°	39	51	66	73	71
85°	22	32	39	41	41
87.5°	11	14	16	18	18
90°	0	0	0	0	0

(END OF REPORT)