

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: P31364

Luminaire Tested: **2ALNG-254T5-UNV-EBT1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P31364  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2ALNG-254T5-UNV-EBT1-U  
Description: METALUX 2X4 ARCLINE LFL FIXTURE WITH LENS  
Light Source: (2) BIPIN T5 DOUBLE ENDED 54W LINEAR FLUORESCENT LAMP 3500K, 5000 EA  
Ballast/Driver: -  
GE254MVPS90-F

**Summary**

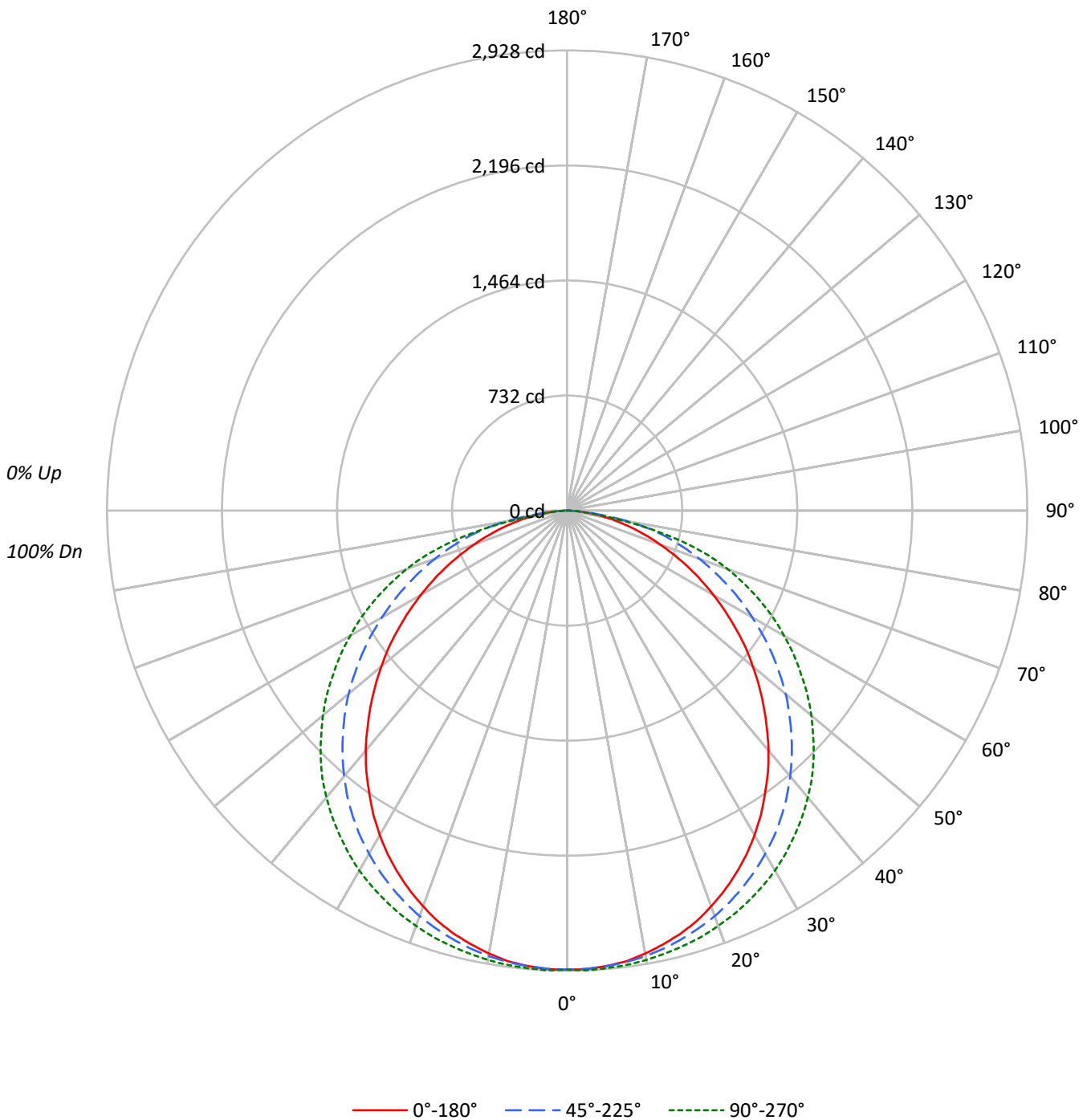
Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 8634.8 lumens  
Efficiency: 86.3%  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.34 / 1.4  
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.3  
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	103	103	103	103	100	100	100	100	96	96	96		92	92	92		88	88	88	86
1	94	90	86	82	91	88	84	81	84	81	79		81	78	76		77	76	74	72
2	85	78	72	67	83	76	71	66	73	69	64		70	66	63		68	64	62	60
3	77	68	61	55	75	67	60	55	64	59	54		62	57	53		60	55	52	50
4	71	60	53	47	69	59	52	46	57	51	46		55	49	45		53	48	44	43
5	65	54	46	40	63	53	45	40	51	44	39		49	43	39		48	43	39	37
6	60	48	41	35	58	48	40	35	46	39	34		44	39	34		43	38	34	32
7	56	44	36	31	54	43	36	31	42	35	30		40	35	30		39	34	30	28
8	52	40	32	27	50	39	32	27	38	32	27		37	31	27		36	31	27	25
9	48	37	29	25	47	36	29	25	35	29	24		34	28	24		33	28	24	23
10	45	34	27	22	44	33	27	22	32	26	22		32	26	22		31	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4687	4687	4687
5°	4684	4687	4706
10°	4663	4689	4732
15°	4630	4688	4761
20°	4576	4689	4802
25°	4506	4681	4847
30°	4417	4671	4901
35°	4300	4656	4942
40°	4177	4625	4991
45°	4019	4579	5033
50°	3852	4533	5062
55°	3665	4456	5086
60°	3453	4368	5119
65°	3227	4283	5133
70°	2951	4194	5100
75°	2666	4085	4674
80°	2329	3641	3105
85°	1859	2025	1528



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	277.2	3.2	2.8	0°	2921	2921	2921	2921	2921	
10°-20°	798.0	9.2	8.0	5°	2908	2915	2910	2917	2922	276
20°-30°	1219.3	14.1	12.2	15°	2787	2801	2822	2855	2866	786
30°-40°	1482.9	17.2	14.8	25°	2545	2582	2644	2715	2738	1172
40°-50°	1548.7	17.9	15.5	35°	2195	2259	2377	2488	2523	1374
50°-60°	1411.3	16.3	14.1	45°	1771	1854	2018	2165	2218	1366
60°-70°	1103.2	12.8	11.0	55°	1310	1396	1593	1759	1818	1172
70°-80°	654.4	7.6	6.5	65°	850	934	1128	1298	1352	841
80°-90°	139.9	1.6	1.4	75°	430	506	659	755	754	458
90°-100°	0.0	0.0	0.0	85°	101	130	110	92	83	119
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°	2294.5	26.6	22.9							
0°-40°	3777.3	43.7	37.8							
0°-60°	6737.3	78.0	67.4							
0°-90°	8634.8	100.0	86.3							
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°	8634.8	100.0	86.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2921	2921	2921	2921	2921
2.5°	2920	2923	2917	2923	2928
5°	2908	2915	2910	2917	2922
7.5°	2892	2896	2897	2907	2916
10°	2862	2874	2878	2895	2904
12.5°	2826	2841	2853	2875	2886
15°	2787	2801	2822	2855	2866
17.5°	2739	2758	2786	2827	2843
20°	2680	2704	2746	2793	2812
22.5°	2616	2647	2698	2755	2779
25°	2545	2582	2644	2715	2738
27.5°	2469	2509	2586	2666	2694
30°	2384	2431	2521	2610	2645
32.5°	2295	2348	2453	2551	2587
35°	2195	2259	2377	2488	2523
37.5°	2098	2163	2296	2417	2456
40°	1994	2065	2208	2339	2383
42.5°	1882	1961	2116	2255	2306
45°	1771	1854	2018	2165	2218
47.5°	1658	1742	1918	2073	2124
50°	1543	1632	1816	1970	2028
52.5°	1431	1515	1704	1869	1928
55°	1310	1396	1593	1759	1818
57.5°	1193	1279	1479	1650	1711
60°	1076	1162	1361	1536	1595
62.5°	962	1049	1247	1416	1480
65°	850	934	1128	1298	1352
67.5°	737	825	1010	1171	1222
70°	629	714	894	1041	1087
72.5°	527	610	777	908	937
75°	430	506	659	755	754
77.5°	339	409	539	563	547
80°	252	314	394	361	336
82.5°	173	228	237	197	185
85°	101	130	110	92	83
87.5°	37	40	25	19	18
90°	0	0	0	0	0

(END OF REPORT)