

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: P32136

Luminaire Tested: **2ALNG-314T5-UNV-EBT1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32136
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-314T5-UNV-EBT1-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS
Light Source: (3) GE BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 5000K
F14W-T5-850-ECO 14 WATTS
Ballast/Driver: -
ICN-3S14-D

Summary

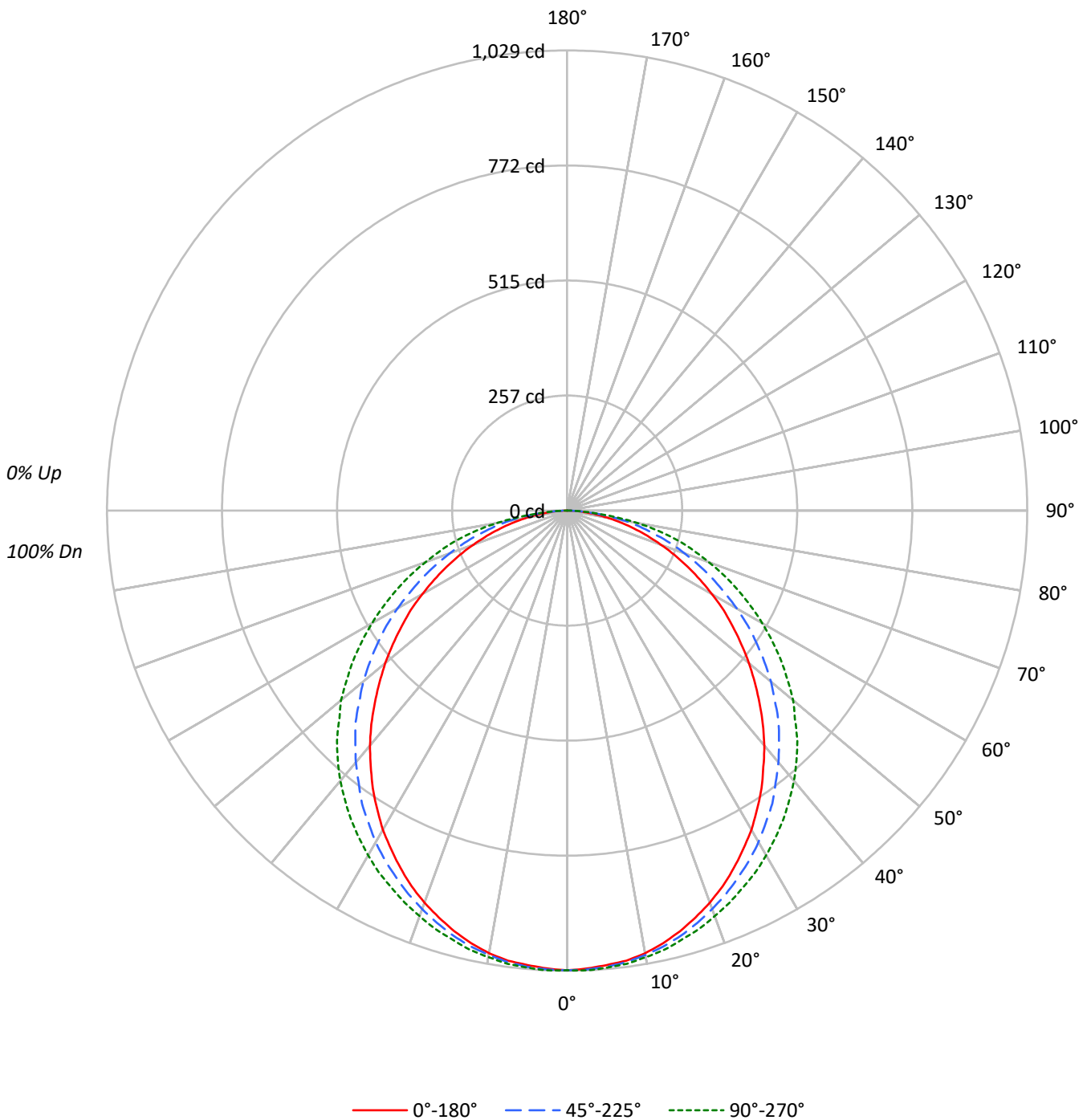
Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2898.9 lumens
Efficiency: 74.3%
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 47.3
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	88	88	88	88	86	86	86	86	83	83	83		79	79	79		76	76	76	74
1	81	77	74	71	79	75	72	70	72	70	68		69	67	65		67	65	64	62
2	73	67	62	58	71	66	61	57	63	59	56		61	57	54		58	56	53	51
3	67	59	53	48	65	58	52	47	55	51	47		53	49	46		51	48	45	43
4	61	52	46	40	59	51	45	40	49	44	40		47	43	39		46	42	39	37
5	56	47	40	35	55	46	39	35	44	39	34		43	38	34		41	37	33	32
6	52	42	35	30	50	41	35	30	40	34	30		39	34	30		37	33	29	28
7	48	38	31	27	47	37	31	27	36	31	27		35	30	26		34	30	26	25
8	45	35	28	24	44	34	28	24	33	28	24		32	27	24		31	27	23	22
9	42	32	26	22	41	31	25	21	31	25	21		30	25	21		29	24	21	20
10	39	29	23	20	38	29	23	19	28	23	19		28	23	19		27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3613	3613	3613
5°	3599	3613	3620
10°	3587	3601	3619
15°	3544	3581	3613
20°	3490	3546	3609
25°	3420	3510	3607
30°	3344	3474	3612
35°	3252	3433	3617
40°	3147	3372	3620
45°	3022	3325	3619
50°	2903	3253	3609
55°	2770	3168	3579
60°	2629	3079	3543
65°	2470	2977	3510
70°	2292	2867	3463
75°	2091	2743	3463
80°	1842	2631	3218
85°	1532	2057	2218



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	97.3	3.4	2.5	0°	1028	1028	1028	1028	1028	
10°-20°	277.5	9.6	7.1	5°	1020	1021	1024	1026	1026	97
20°-30°	417.5	14.4	10.7	15°	974	976	984	991	993	274
30°-40°	499.8	17.2	12.8	25°	882	889	905	923	930	406
40°-50°	514.8	17.8	13.2	35°	758	768	800	829	843	473
50°-60°	462.8	16.0	11.9	45°	608	626	669	710	728	470
60°-70°	355.2	12.3	9.1	55°	452	471	517	564	584	405
70°-80°	215.2	7.4	5.5	65°	297	315	358	402	422	294
80°-90°	58.9	2.0	1.5	75°	154	169	202	240	255	164
90°-100°	0.0	0.0	0.0	85°	38	44	51	55	55	44
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°	792.2	27.3	20.3							
0°-40°	1292.0	44.6	33.1							
0°-60°	2269.6	78.3	58.2							
0°-90°	2898.9	100.0	74.3							
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°	2898.9	100.0	74.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028	1028	1028	1028	1028
2.5°	1025	1027	1027	1028	1029
5°	1020	1021	1024	1026	1026
7.5°	1015	1016	1018	1020	1022
10°	1005	1005	1009	1012	1014
12.5°	991	993	998	1003	1006
15°	974	976	984	991	993
17.5°	954	958	967	976	981
20°	933	937	948	960	965
22.5°	909	914	928	943	949
25°	882	889	905	923	930
27.5°	853	863	882	902	912
30°	824	832	856	880	890
32.5°	791	802	827	856	867
35°	758	768	800	829	843
37.5°	721	734	766	802	816
40°	686	698	735	773	789
42.5°	648	663	701	741	759
45°	608	626	669	710	728
47.5°	569	587	630	676	691
50°	531	550	595	641	660
52.5°	491	510	556	603	621
55°	452	471	517	564	584
57.5°	415	431	479	525	544
60°	374	392	438	485	504
62.5°	335	353	396	445	463
65°	297	315	358	402	422
67.5°	260	276	318	363	381
70°	223	240	279	320	337
72.5°	188	204	241	281	296
75°	154	169	202	240	255
77.5°	122	135	166	201	208
80°	91	102	130	149	159
82.5°	64	74	92	101	105
85°	38	44	51	55	55
87.5°	14	16	17	17	18
90°	0	0	0	0	0

(END OF REPORT)