

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: P32137

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32137
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-314T5-SDL-UNV-EBT1-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS WITH DIFFUSER
Light Source: (3) GE BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 5000K
F14W-T5-850-ECO 14 WATTS
Ballast/Driver: -
ICN-3S14-D

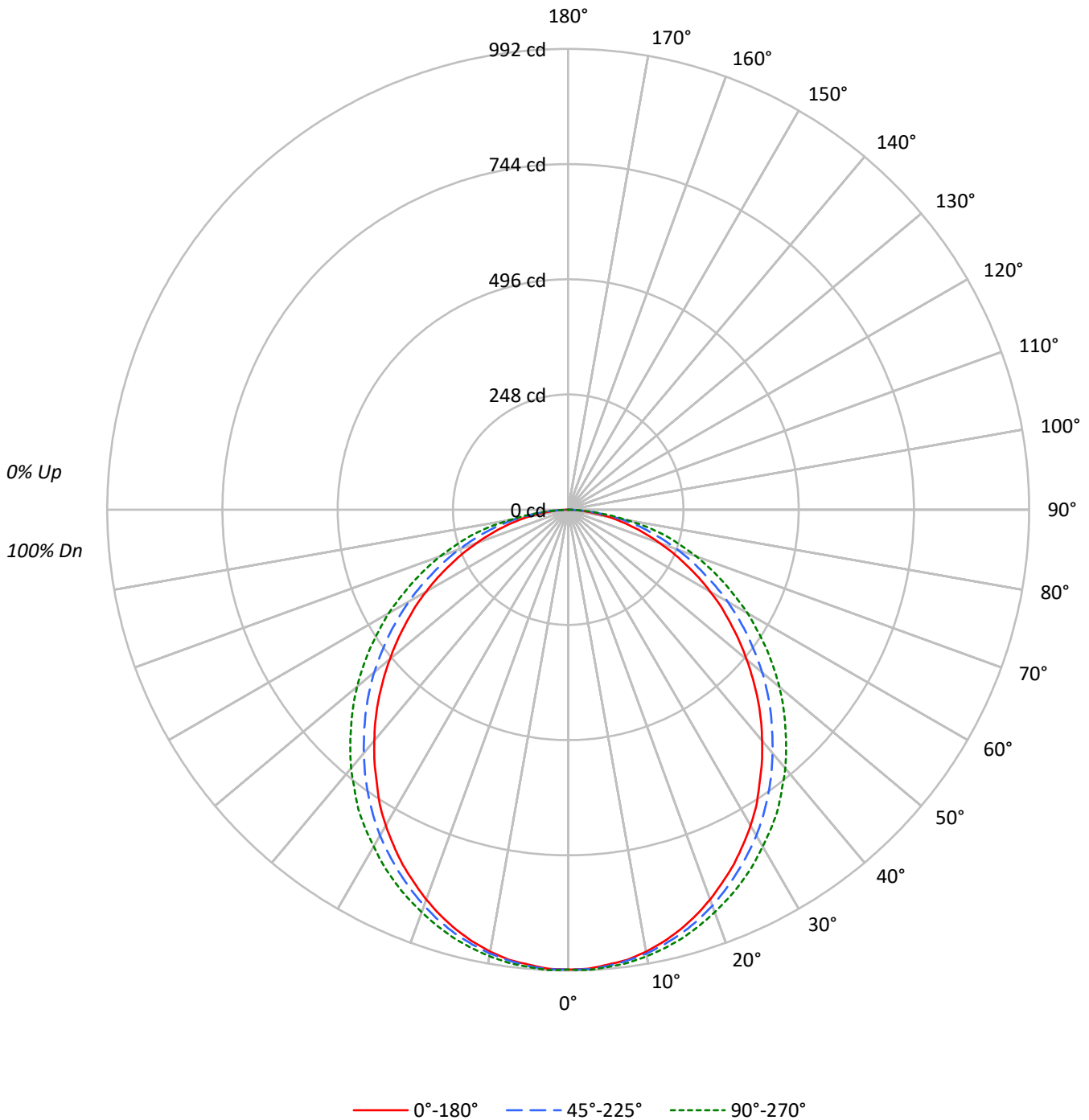
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2685.4 lumens
Efficiency: 68.9%
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.33
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	82	82	82	82	80	80	80	80	77	77	77	73	73	73	70	70	70	69
1	75	72	69	66	73	70	67	65	67	65	63	64	63	61	62	60	59	58
2	68	62	58	54	66	61	57	53	59	55	52	56	53	51	54	52	50	48
3	62	55	49	45	60	54	49	44	52	47	44	50	46	43	48	45	42	41
4	57	49	43	38	55	48	42	38	46	41	37	44	40	37	43	39	36	35
5	52	43	37	33	51	43	37	33	41	36	32	40	35	32	39	35	31	30
6	48	39	33	29	47	39	33	28	37	32	28	36	32	28	35	31	28	26
7	45	36	30	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23
8	42	32	27	23	41	32	26	23	31	26	22	30	26	22	29	25	22	21
9	39	30	24	20	38	29	24	20	29	24	20	28	23	20	27	23	20	19
10	37	28	22	18	36	27	22	18	27	22	18	26	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3480	3480	3480
5°	3468	3479	3486
10°	3448	3462	3483
15°	3402	3435	3471
20°	3340	3392	3449
25°	3269	3339	3428
30°	3186	3287	3397
35°	3081	3218	3377
40°	2978	3138	3336
45°	2868	3062	3286
50°	2739	2980	3243
55°	2610	2886	3186
60°	2481	2784	3135
65°	2320	2661	3061
70°	2148	2559	3011
75°	1969	2444	2947
80°	1761	2287	2591
85°	1371	1815	1895



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	93.6	3.5	2.4	0°	990	990	990	990	990	
10°-20°	266.2	9.9	6.8	5°	983	984	986	988	988	93
20°-30°	397.3	14.8	10.2	15°	935	937	944	951	954	263
30°-40°	469.8	17.5	12.0	25°	843	847	861	877	884	388
40°-50°	476.1	17.7	12.2	35°	718	730	750	774	787	450
50°-60°	421.8	15.7	10.8	45°	577	588	616	646	661	445
60°-70°	319.3	11.9	8.2	55°	426	441	471	504	520	382
70°-80°	190.3	7.1	4.9	65°	279	291	320	354	368	278
80°-90°	51.0	1.9	1.3	75°	145	157	180	205	217	154
90°-100°	0.0	0.0	0.0	85°	34	40	45	46	47	40
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°	757.0	28.2	19.4							
0°-40°	1226.9	45.7	31.5							
0°-60°	2124.8	79.1	54.5							
0°-90°	2685.4	100.0	68.9							
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°	2685.4	100.0	68.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990	990	990	990	990
2.5°	989	989	990	991	992
5°	983	984	986	988	988
7.5°	977	978	979	982	984
10°	966	967	970	974	976
12.5°	952	954	958	963	966
15°	935	937	944	951	954
17.5°	915	919	927	935	939
20°	893	897	907	918	922
22.5°	868	874	885	898	904
25°	843	847	861	877	884
27.5°	814	822	836	854	862
30°	785	791	810	830	837
32.5°	754	761	781	803	813
35°	718	730	750	774	787
37.5°	685	694	718	745	756
40°	649	659	684	713	727
42.5°	614	623	650	681	694
45°	577	588	616	646	661
47.5°	539	549	581	613	628
50°	501	514	545	577	593
52.5°	464	476	507	541	557
55°	426	441	471	504	520
57.5°	391	401	433	465	482
60°	353	365	396	428	446
62.5°	317	326	358	391	406
65°	279	291	320	354	368
67.5°	245	256	285	315	330
70°	209	221	249	278	293
72.5°	176	189	214	241	253
75°	145	157	180	205	217
77.5°	115	125	147	168	175
80°	87	95	113	125	128
82.5°	58	66	78	85	85
85°	34	40	45	46	47
87.5°	12	14	15	15	15
90°	0	0	0	0	0

(END OF REPORT)