

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: P31456

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31456
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-214T5-UNV-EBT1-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS
Light Source: (2) GE BIPIN T5 DOUBLE ENDED 14W LINEAR FLUORESCENT LAMP 5000K, 1300 EA
Ballast/Driver: -
GE228MVPS-A

Summary

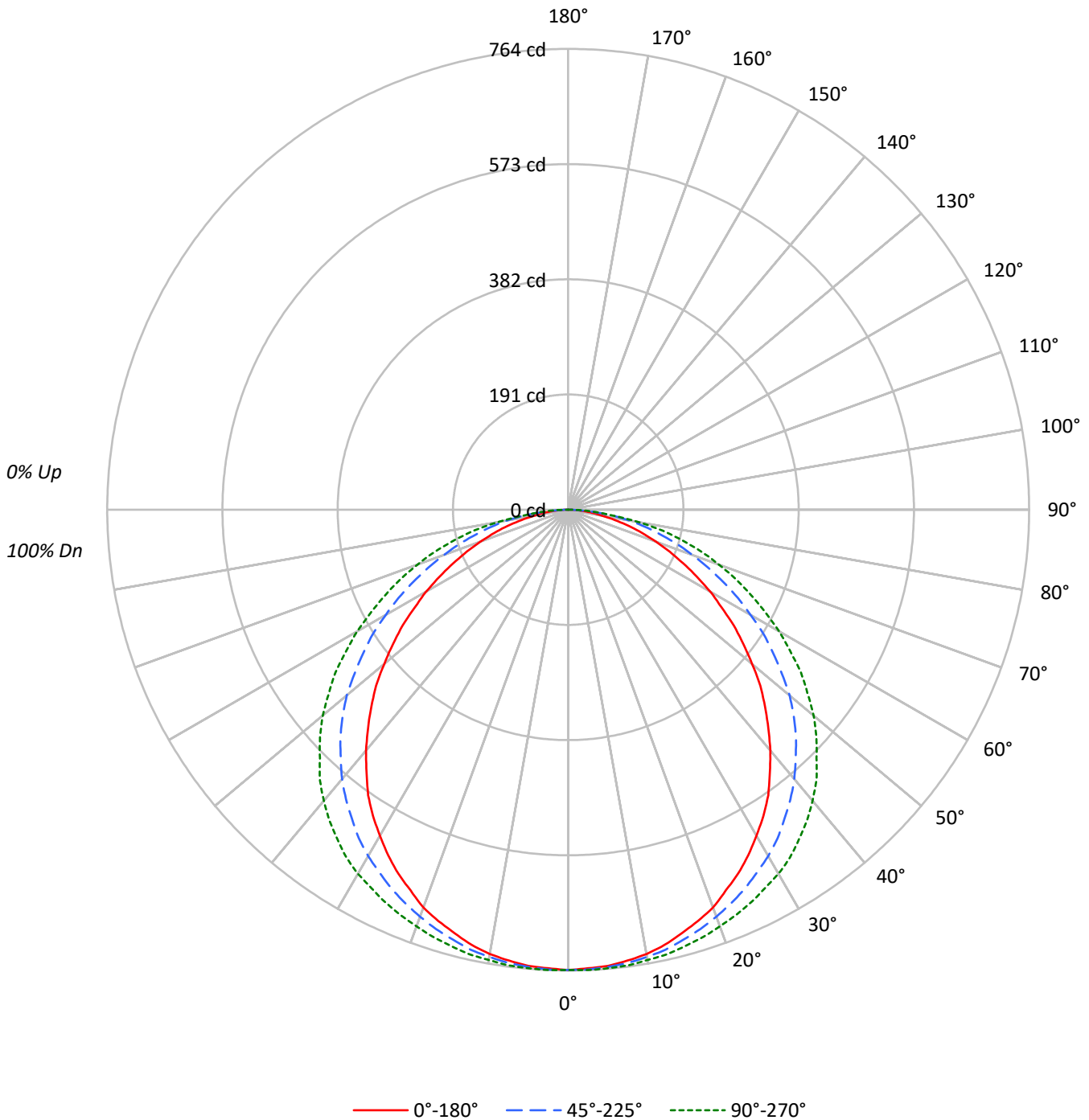
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2246.9 lumens
Efficiency: 86.4%
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.41
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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

TEST NUMBER: P31456

CATALOG NUMBER: 2ALNG-214T5-UNV-EBT1-U

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	65		70	67	63		68	65	62	60
3	78	68	61	55	75	67	60	55	64	59	54		62	57	53		60	56	52	50
4	71	60	53	47	69	59	52	47	57	51	46		55	50	45		53	49	45	43
5	65	54	46	40	63	53	46	40	51	45	40		49	44	39		48	43	39	37
6	60	49	41	35	59	48	40	35	46	40	35		45	39	34		43	38	34	32
7	56	44	36	31	54	43	36	31	42	35	31		41	35	30		39	34	30	28
8	52	40	33	28	51	39	32	27	38	32	27		37	31	27		36	31	27	25
9	48	37	30	25	47	36	29	25	35	29	25		34	29	24		33	28	24	23
10	45	34	27	22	44	33	27	22	33	26	22		32	26	22		31	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2619	2619	2619
5°	2615	2622	2629
10°	2607	2625	2642
15°	2583	2623	2662
20°	2564	2623	2685
25°	2522	2625	2719
30°	2473	2628	2763
35°	2422	2619	2795
40°	2335	2612	2823
45°	2238	2592	2825
50°	2125	2558	2836
55°	2005	2484	2819
60°	1867	2396	2773
65°	1706	2299	2713
70°	1546	2198	2660
75°	1379	2095	2586
80°	1146	2016	2333
85°	945	1615	1812



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	72.4	3.2	2.8	0°	763	763	763	763	763	
10°-20°	208.5	9.3	8.0	5°	759	760	761	762	763	72
20°-30°	319.2	14.2	12.3	15°	727	731	738	746	749	205
30°-40°	390.2	17.4	15.0	25°	666	674	693	711	718	307
40°-50°	407.0	18.1	15.7	35°	578	592	625	658	667	360
50°-60°	365.1	16.2	14.0	45°	461	484	534	571	582	356
60°-70°	275.9	12.3	10.6	55°	335	362	415	455	471	299
70°-80°	163.0	7.3	6.3	65°	210	234	283	325	334	209
80°-90°	45.6	2.0	1.8	75°	104	121	158	187	195	110
90°-100°	0.0	0.0	0.0	85°	24	33	41	44	46	28
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°	600.2	26.7	23.1							
0°-40°	990.4	44.1	38.1							
0°-60°	1762.5	78.4	67.8							
0°-90°	2246.9	100.0	86.4							
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°	2246.9	100.0	86.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763	763	763	763	763
2.5°	761	762	763	764	764
5°	759	760	761	762	763
7.5°	754	756	758	760	762
10°	748	750	753	757	758
12.5°	739	741	747	752	755
15°	727	731	738	746	749
17.5°	715	720	729	739	743
20°	702	705	718	730	735
22.5°	683	691	706	721	727
25°	666	674	693	711	718
27.5°	646	657	678	699	707
30°	624	636	663	686	697
32.5°	602	615	646	673	684
35°	578	592	625	658	667
37.5°	549	566	605	638	650
40°	521	540	583	618	630
42.5°	491	513	558	596	609
45°	461	484	534	571	582
47.5°	432	456	507	545	558
50°	398	426	479	516	531
52.5°	366	394	446	488	500
55°	335	362	415	455	471
57.5°	301	329	384	424	436
60°	272	297	349	390	404
62.5°	240	266	317	356	368
65°	210	234	283	325	334
67.5°	182	205	251	289	301
70°	154	175	219	255	265
72.5°	128	147	189	221	232
75°	104	121	158	187	195
77.5°	79	97	130	153	160
80°	58	74	102	117	118
82.5°	40	54	72	76	75
85°	24	33	41	44	46
87.5°	11	14	17	21	21
90°	0	0	0	0	0

(END OF REPORT)