

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: P31367

Luminaire Tested: **2ALNG-224T5-UNV-EBT1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P31367
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-224T5-UNV-EBT1-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS
Light Source: (2) BIPIN T5 DOUBLE ENDED 24W LINEAR FLUORESCENT LAMP 4100K, 1750 EA
Ballast/Driver: -
ULT B224PUNV-C

Summary

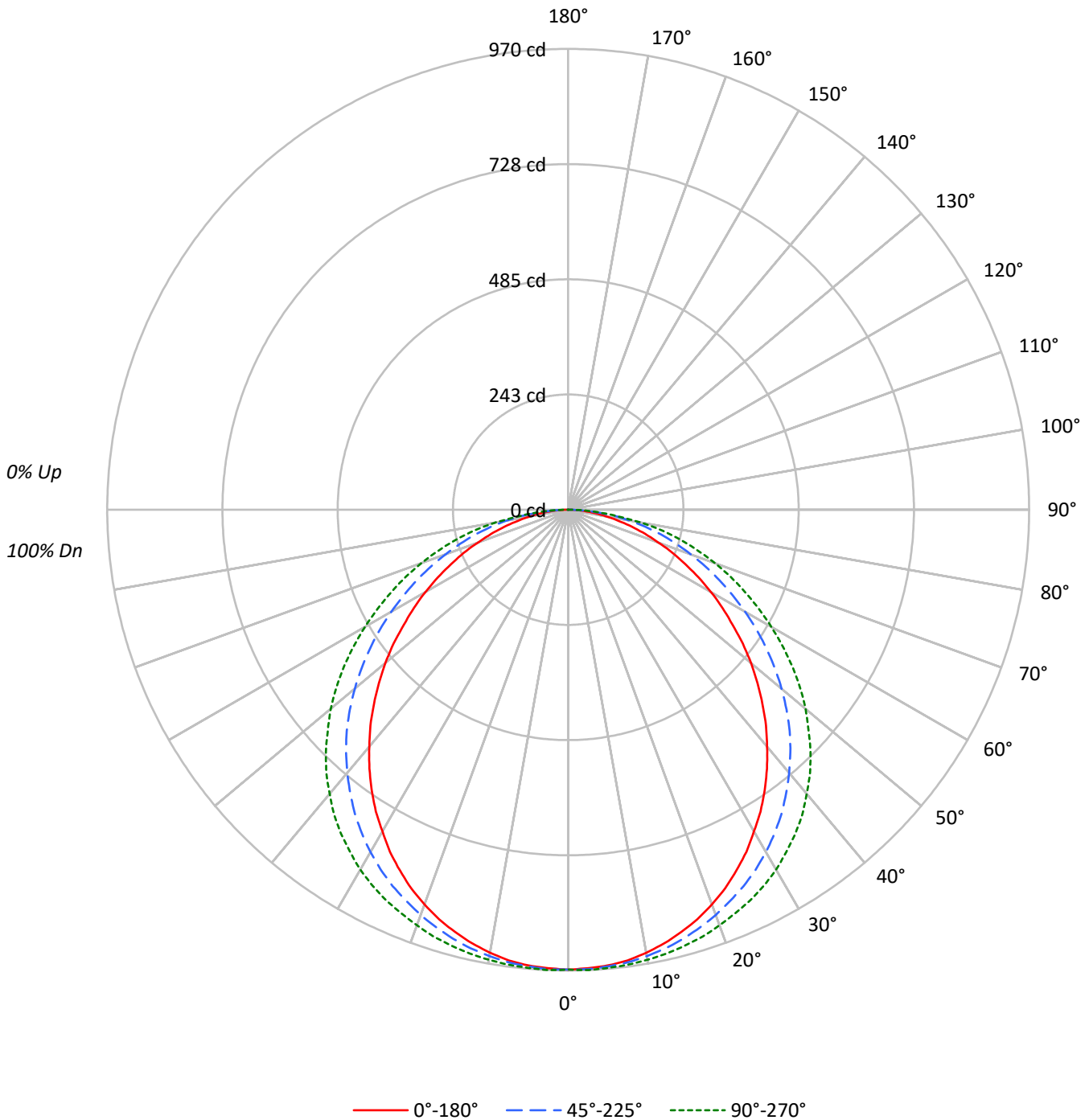
Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 2813.4 lumens
Efficiency: 80.4%
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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	96	96	96	96	93	93	93	93	89	89	89		86	86	86		82	82	82	80
1	87	83	80	77	85	81	78	75	78	75	73		75	73	71		72	70	69	67
2	79	72	67	62	77	71	66	61	68	64	60		65	62	59		63	60	57	56
3	72	64	57	52	70	62	56	51	60	55	50		58	53	49		56	52	48	47
4	66	56	49	44	64	55	48	43	53	47	43		51	46	42		49	45	42	40
5	61	50	43	38	59	49	42	37	48	42	37		46	41	36		44	40	36	34
6	56	45	38	33	54	44	38	33	43	37	32		42	36	32		40	35	32	30
7	52	41	34	29	51	40	34	29	39	33	29		38	32	28		37	32	28	26
8	48	37	30	26	47	37	30	26	36	30	25		35	29	25		34	29	25	24
9	45	34	28	23	44	34	27	23	33	27	23		32	27	23		31	26	23	21
10	42	32	25	21	41	31	25	21	30	25	21		30	24	21		29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3318	3325	3335
10°	3301	3325	3353
15°	3269	3323	3376
20°	3229	3317	3401
25°	3174	3310	3435
30°	3099	3298	3468
35°	3021	3277	3491
40°	2917	3240	3500
45°	2806	3199	3500
50°	2681	3129	3482
55°	2525	3046	3447
60°	2382	2952	3391
65°	2209	2851	3338
70°	2027	2750	3292
75°	1843	2679	3249
80°	1641	2590	3044
85°	1339	2206	2521



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	91.8	3.3	2.6	0°	968	968	968	968	968	
10°-20°	264.0	9.4	7.5	5°	963	964	965	967	968	91
20°-30°	402.4	14.3	11.5	15°	920	924	935	946	950	259
30°-40°	487.2	17.3	13.9	25°	838	848	874	898	907	386
40°-50°	504.1	17.9	14.4	35°	721	739	782	819	833	450
50°-60°	450.9	16.0	12.9	45°	578	603	659	705	721	446
60°-70°	343.3	12.2	9.8	55°	422	450	509	558	576	379
70°-80°	208.0	7.4	5.9	65°	272	296	351	396	411	270
80°-90°	61.8	2.2	1.8	75°	139	159	202	234	245	148
90°-100°	0.0	0.0	0.0	85°	34	46	56	61	64	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°	758.2	26.9	21.7							
0°-40°	1245.3	44.3	35.6							
0°-60°	2200.3	78.2	62.9							
0°-90°	2813.4	100.0	80.4							
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°	2813.4	100.0	80.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968	968	968	968	968
2.5°	966	967	968	969	970
5°	963	964	965	967	968
7.5°	957	958	961	964	966
10°	947	949	954	960	962
12.5°	935	938	946	954	957
15°	920	924	935	946	950
17.5°	904	909	922	936	942
20°	884	891	908	925	931
22.5°	863	871	891	912	919
25°	838	848	874	898	907
27.5°	812	824	854	881	892
30°	782	798	832	863	875
32.5°	753	769	808	842	854
35°	721	739	782	819	833
37.5°	687	707	753	794	809
40°	651	674	723	767	781
42.5°	616	639	692	737	753
45°	578	603	659	705	721
47.5°	540	566	623	671	686
50°	502	529	586	634	652
52.5°	463	490	548	597	615
55°	422	450	509	558	576
57.5°	385	411	470	520	535
60°	347	373	430	478	494
62.5°	309	334	390	436	452
65°	272	296	351	396	411
67.5°	238	261	313	356	370
70°	202	225	274	315	328
72.5°	170	191	238	275	286
75°	139	159	202	234	245
77.5°	109	129	166	194	203
80°	83	100	131	152	154
82.5°	58	72	96	102	103
85°	34	46	56	61	64
87.5°	14	20	25	29	29
90°	0	0	0	0	0

(END OF REPORT)