

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: P32143

Luminaire Tested: **2ALNG-317-SDL-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32143
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-317-SDL-UNV-EB81-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS WITH DIFFUSER
Light Source: (3) GE BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
F17T8/SPX35/ECO 17 WATTS
Ballast/Driver: -
GE332MAX-N/ULTRA

Summary

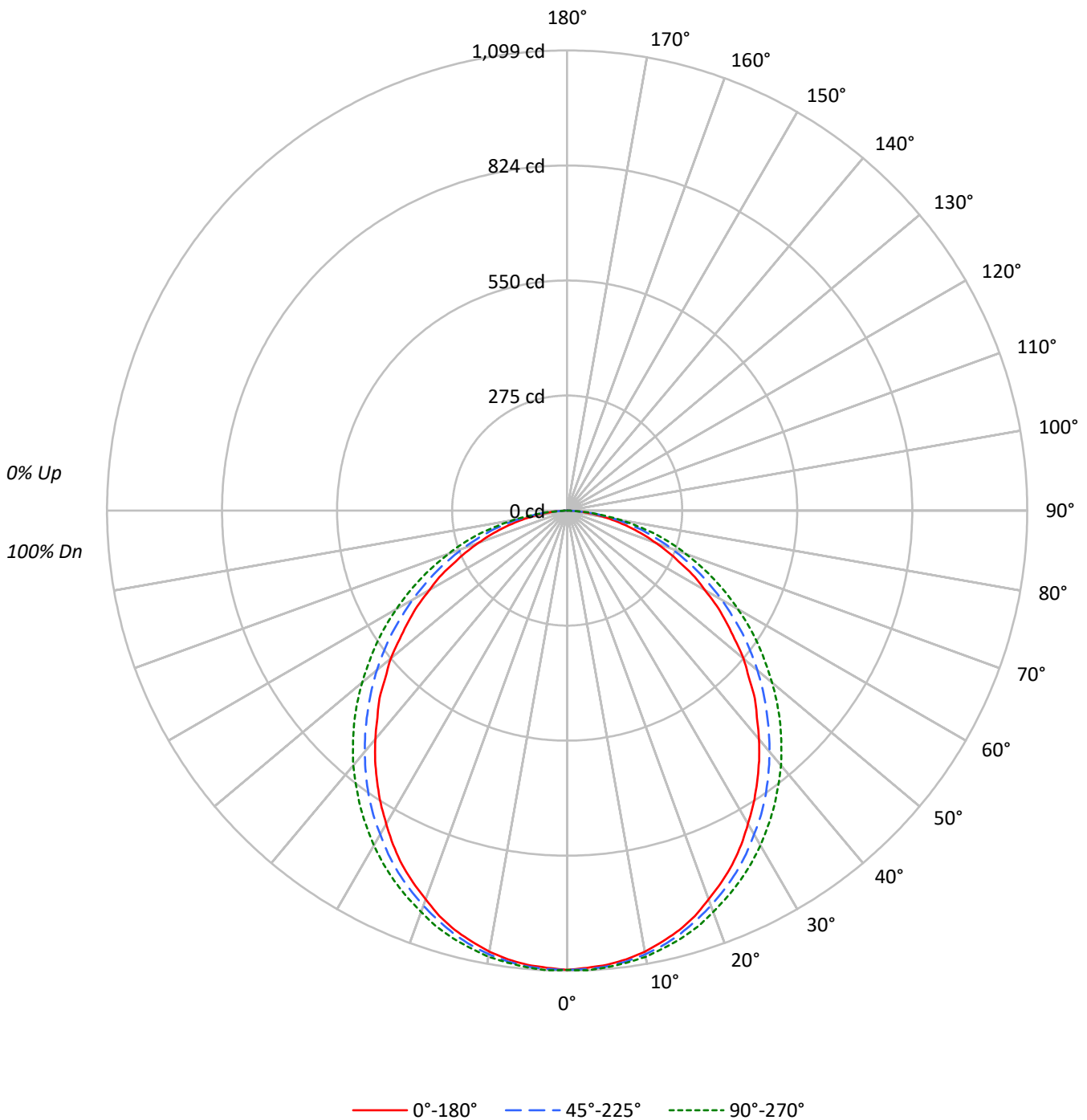
Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 2922.3 lumens
Efficiency: 72.2%
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 41.6
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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	79	75	72	69	77	74	71	68	70	68	66	68	66	64	65	64	62	61
2	72	66	61	57	70	64	60	56	62	58	55	59	56	53	57	55	52	51
3	65	58	52	47	63	57	51	47	54	50	46	52	48	45	51	47	44	43
4	60	51	45	40	58	50	44	40	48	43	39	47	42	39	45	41	38	37
5	55	46	39	35	54	45	39	34	44	38	34	42	37	34	41	37	33	32
6	51	41	35	30	50	41	35	30	39	34	30	38	33	30	37	33	29	28
7	47	38	31	27	46	37	31	27	36	30	27	35	30	26	34	29	26	25
8	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	23	22
9	41	31	26	22	40	31	25	22	30	25	21	29	25	21	29	24	21	20
10	39	29	23	20	38	29	23	20	28	23	19	27	23	19	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3856	3856	3856
5°	3842	3856	3863
10°	3819	3840	3862
15°	3773	3806	3846
20°	3695	3755	3815
25°	3618	3700	3785
30°	3507	3624	3746
35°	3394	3548	3699
40°	3271	3450	3648
45°	3151	3345	3579
50°	3007	3243	3494
55°	2837	3131	3413
60°	2671	3002	3311
65°	2495	2869	3210
70°	2312	2723	3093
75°	2118	2580	2974
80°	1842	2328	2611
85°	1492	1774	1855



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	103.7	3.6	2.6	0°	1097	1097	1097	1097	1097	
10°-20°	294.9	10.1	7.3	5°	1089	1090	1093	1095	1095	103
20°-30°	439.1	15.0	10.8	15°	1037	1039	1046	1053	1057	292
30°-40°	516.9	17.7	12.8	25°	933	938	954	969	976	429
40°-50°	520.3	17.8	12.8	35°	791	801	827	853	862	495
50°-60°	456.0	15.6	11.3	45°	634	642	673	707	720	487
60°-70°	341.0	11.7	8.4	55°	463	476	511	542	557	415
70°-80°	198.6	6.8	4.9	65°	300	314	345	373	386	299
80°-90°	51.7	1.8	1.3	75°	156	166	190	212	219	165
90°-100°	0.0	0.0	0.0	85°	37	41	44	45	46	43
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°	837.8	28.7	20.7							
0°-40°	1354.7	46.4	33.4							
0°-60°	2331.0	79.8	57.6							
0°-90°	2922.3	100.0	72.2							
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°	2922.3	100.0	72.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097	1097	1097	1097	1097
2.5°	1093	1095	1096	1098	1099
5°	1089	1090	1093	1095	1095
7.5°	1081	1083	1086	1088	1089
10°	1070	1072	1076	1080	1082
12.5°	1054	1057	1063	1067	1070
15°	1037	1039	1046	1053	1057
17.5°	1015	1018	1026	1036	1041
20°	988	993	1004	1016	1020
22.5°	962	967	980	995	999
25°	933	938	954	969	976
27.5°	900	907	925	942	951
30°	864	872	893	914	923
32.5°	829	839	862	885	893
35°	791	801	827	853	862
37.5°	753	764	790	818	828
40°	713	725	752	782	795
42.5°	671	683	713	744	757
45°	634	642	673	707	720
47.5°	588	603	634	666	680
50°	550	560	593	626	639
52.5°	504	520	552	584	597
55°	463	476	511	542	557
57.5°	424	435	467	502	515
60°	380	394	427	458	471
62.5°	344	354	384	416	429
65°	300	314	345	373	386
67.5°	263	276	304	333	343
70°	225	238	265	292	301
72.5°	190	202	226	250	261
75°	156	166	190	212	219
77.5°	122	132	153	168	172
80°	91	99	115	126	129
82.5°	62	70	80	86	85
85°	37	41	44	45	46
87.5°	14	14	14	13	12
90°	0	0	0	0	0

(END OF REPORT)