

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: P32142

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32142
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-317-UNV-EB81-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS
Light Source: (3) GE BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
F17T8/SPX35/ECO 17 WATTS
Ballast/Driver: -
GE332MAX-N/ULTRA

Summary

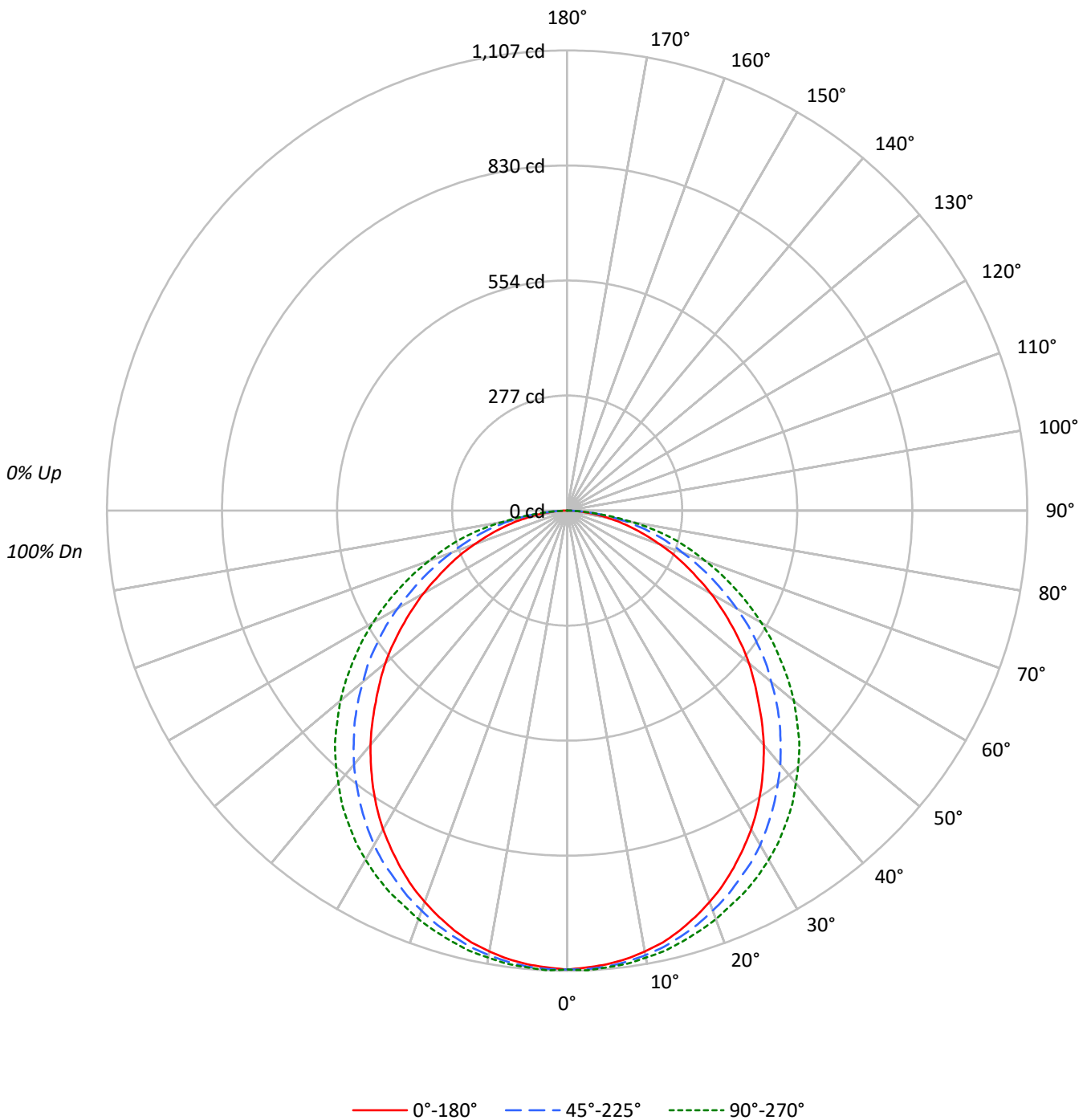
Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 3118.2 lumens
Efficiency: 77.0%
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.37
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
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	50	30	10	50	30	10	0		
RCR																										
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77						77		
1	84	80	77	74	82	78	75	72	75	72	70	72	70	68	69	67	66	64						64		
2	76	70	64	60	74	68	63	59	65	61	58	63	59	56	61	58	55	53						53		
3	69	61	55	50	67	60	54	49	58	52	48	55	51	47	53	50	47	45						45		
4	63	54	47	42	62	53	47	42	51	46	41	49	45	41	48	43	40	38						38		
5	58	48	41	36	57	47	41	36	46	40	36	44	39	35	43	38	35	33						33		
6	54	44	37	32	52	43	36	31	41	36	31	40	35	31	39	34	31	29						29		
7	50	39	33	28	49	39	32	28	38	32	28	36	31	27	35	31	27	26						26		
8	46	36	29	25	45	35	29	25	34	29	25	33	28	24	33	28	24	23						23		
9	43	33	27	22	42	33	26	22	32	26	22	31	26	22	30	25	22	21						21		
10	41	30	24	20	40	30	24	20	29	24	20	29	24	20	28	23	20	19						19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3880	3880	3880
5°	3867	3885	3892
10°	3844	3876	3897
15°	3806	3857	3904
20°	3748	3830	3912
25°	3676	3797	3925
30°	3596	3770	3937
35°	3493	3716	3939
40°	3377	3661	3927
45°	3236	3594	3927
50°	3122	3505	3893
55°	2966	3425	3842
60°	2812	3311	3789
65°	2628	3177	3718
70°	2436	3042	3628
75°	2227	2933	3599
80°	1963	2793	3218
85°	1573	2097	2218



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	104.6	3.4	2.6	0°	1104	1104	1104	1104	1104	
10°-20°	299.1	9.6	7.4	5°	1096	1099	1101	1103	1103	104
20°-30°	451.7	14.5	11.2	15°	1046	1051	1060	1069	1073	295
30°-40°	541.7	17.4	13.4	25°	948	958	979	1003	1012	437
40°-50°	556.7	17.9	13.7	35°	814	829	866	905	918	509
50°-60°	498.2	16.0	12.3	45°	651	675	723	770	790	503
60°-70°	378.4	12.1	9.3	55°	484	506	559	607	627	433
70°-80°	226.8	7.3	5.6	65°	316	337	382	426	447	314
80°-90°	60.9	2.0	1.5	75°	164	181	216	251	265	174
90°-100°	0.0	0.0	0.0	85°	39	46	52	56	55	46
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°	855.5	27.4	21.1							
0°-40°	1397.1	44.8	34.5							
0°-60°	2452.0	78.6	60.5							
0°-90°	3118.2	100.0	77.0							
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°	3118.2	100.0	77.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104	1104	1104	1104	1104
2.5°	1100	1102	1104	1106	1107
5°	1096	1099	1101	1103	1103
7.5°	1088	1091	1095	1098	1100
10°	1077	1081	1086	1091	1092
12.5°	1064	1069	1075	1082	1085
15°	1046	1051	1060	1069	1073
17.5°	1025	1032	1044	1056	1060
20°	1002	1010	1024	1040	1046
22.5°	977	984	1004	1023	1028
25°	948	958	979	1003	1012
27.5°	917	930	956	981	992
30°	886	898	929	958	970
32.5°	851	863	898	932	946
35°	814	829	866	905	918
37.5°	775	791	832	874	890
40°	736	754	798	840	856
42.5°	694	714	760	806	824
45°	651	675	723	770	790
47.5°	611	634	683	732	750
50°	571	592	641	692	712
52.5°	528	550	603	651	671
55°	484	506	559	607	627
57.5°	441	463	517	564	585
60°	400	421	471	519	539
62.5°	356	378	425	474	494
65°	316	337	382	426	447
67.5°	278	296	339	383	401
70°	237	255	296	337	353
72.5°	199	217	256	295	310
75°	164	181	216	251	265
77.5°	130	145	176	204	216
80°	97	110	138	154	159
82.5°	67	77	96	103	105
85°	39	46	52	56	55
87.5°	16	17	18	18	15
90°	0	0	0	0	0

(END OF REPORT)