

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: P32091

Luminaire Tested: **2ALNG-332-SDL-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32091
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-332-SDL-UNV-EB81-U
Description: METALUX 2X4 ARCLINE LFL FIXTURE WITH LENS WITH DIFFUSER
Light Source: (3) BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
GE F32T8-SPX35-ECO 32 WATTS
Ballast/Driver: (1) GE ELECTRONIC BALLAST

Summary

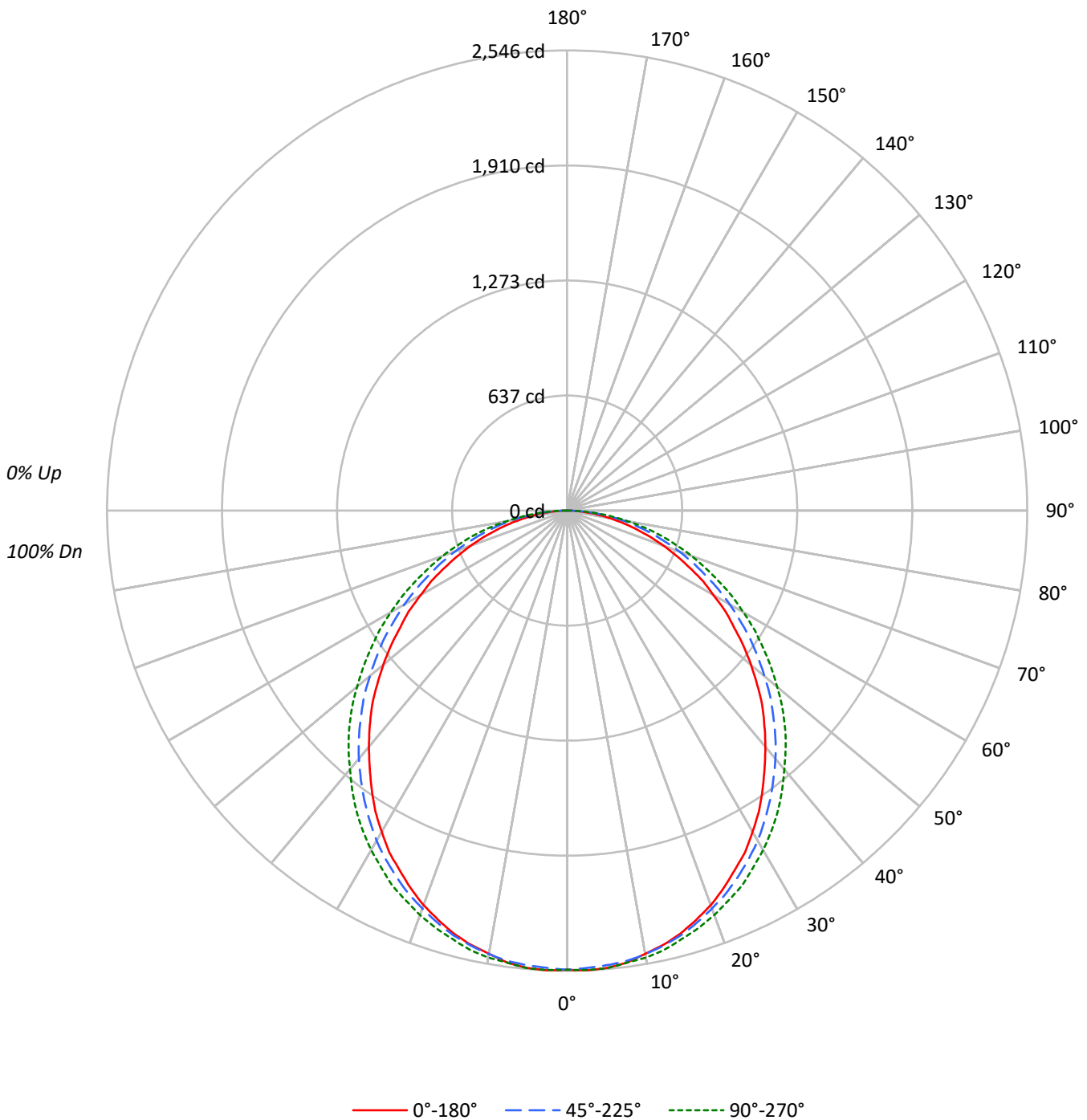
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 7016.2 lumens
Efficiency: 79.3%
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	0
RCR																				
0	94	94	94	94	92	92	92	92	88	88	88		84	84	84		81	81	81	79
1	86	82	79	76	84	80	77	75	77	75	72		74	72	70		71	69	68	66
2	78	72	66	62	76	70	65	61	67	63	60		65	61	58		62	59	57	55
3	71	63	56	51	69	62	56	51	59	54	50		57	53	49		55	51	48	46
4	65	56	49	44	64	55	48	43	53	47	43		51	46	42		49	45	41	40
5	60	50	43	38	58	49	42	37	47	41	37		46	41	36		44	40	36	34
6	56	45	38	33	54	44	38	33	43	37	32		41	36	32		40	35	32	30
7	52	41	34	29	50	40	34	29	39	33	29		38	32	28		37	32	28	27
8	48	37	31	26	47	37	30	26	36	30	26		35	29	25		34	29	25	24
9	45	34	28	23	44	34	28	23	33	27	23		32	27	23		31	26	23	21
10	42	32	25	21	41	31	25	21	30	25	21		30	25	21		29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3431	3410	3433
10°	3402	3405	3431
15°	3375	3389	3418
20°	3326	3355	3409
25°	3257	3320	3400
30°	3188	3277	3370
35°	3096	3214	3338
40°	2996	3149	3283
45°	2906	3069	3246
50°	2780	2983	3175
55°	2644	2902	3103
60°	2513	2796	3033
65°	2378	2681	2951
70°	2231	2585	2880
75°	2038	2480	2807
80°	1836	2417	2650
85°	1652	2254	2316



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	240.7	3.4	2.7	0°	2541	2541	2541	2541	2541	
10°-20°	687.0	9.8	7.8	5°	2540	2534	2525	2536	2542	241
20°-30°	1031.5	14.7	11.7	15°	2423	2425	2433	2445	2454	682
30°-40°	1224.2	17.4	13.8	25°	2194	2210	2236	2272	2290	1012
40°-50°	1244.6	17.7	14.1	35°	1885	1910	1957	2009	2032	1179
50°-60°	1100.6	15.7	12.4	45°	1527	1551	1613	1680	1706	1174
60°-70°	833.1	11.9	9.4	55°	1127	1165	1237	1298	1323	1012
70°-80°	500.4	7.1	5.7	65°	747	780	842	900	927	742
80°-90°	154.1	2.2	1.7	75°	392	425	477	522	540	418
90°-100°	0.0	0.0	0.0	85°	107	127	146	151	150	120
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°	1959.1	27.9	22.1							
0°-40°	3183.3	45.4	36.0							
0°-60°	5528.6	78.8	62.5							
0°-90°	7016.2	100.0	79.3							
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°	7016.2	100.0	79.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2541	2541	2541	2541	2541
2.5°	2546	2539	2533	2540	2544
5°	2540	2534	2525	2536	2542
7.5°	2523	2518	2514	2520	2524
10°	2490	2495	2492	2504	2511
12.5°	2461	2463	2465	2480	2489
15°	2423	2425	2433	2445	2454
17.5°	2374	2381	2390	2412	2421
20°	2323	2328	2343	2370	2381
22.5°	2262	2272	2294	2325	2334
25°	2194	2210	2236	2272	2290
27.5°	2132	2138	2174	2215	2227
30°	2052	2066	2109	2147	2169
32.5°	1974	1990	2034	2082	2103
35°	1885	1910	1957	2009	2032
37.5°	1794	1820	1875	1935	1953
40°	1706	1733	1793	1848	1869
42.5°	1616	1647	1706	1765	1790
45°	1527	1551	1613	1680	1706
47.5°	1426	1455	1524	1585	1615
50°	1328	1356	1425	1491	1517
52.5°	1230	1259	1329	1397	1421
55°	1127	1165	1237	1298	1323
57.5°	1040	1064	1135	1203	1229
60°	934	969	1039	1099	1127
62.5°	848	872	943	1000	1029
65°	747	780	842	900	927
67.5°	655	686	751	805	825
70°	567	594	657	710	732
72.5°	479	509	566	616	632
75°	392	425	477	522	540
77.5°	312	345	393	431	442
80°	237	265	312	334	342
82.5°	170	193	225	244	244
85°	107	127	146	151	150
87.5°	46	59	65	64	66
90°	0	0	0	0	0

(END OF REPORT)