

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: P32090

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32090
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-332-UNV-EB81-U
Description: METALUX 2X4 ARCLINE LFL FIXTURE WITH LENS
Light Source: (3) BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
GE F32T8-SPX35-ECO 32 WATTS
Ballast/Driver: -
GE332-MAX-N/ULTRA

Summary

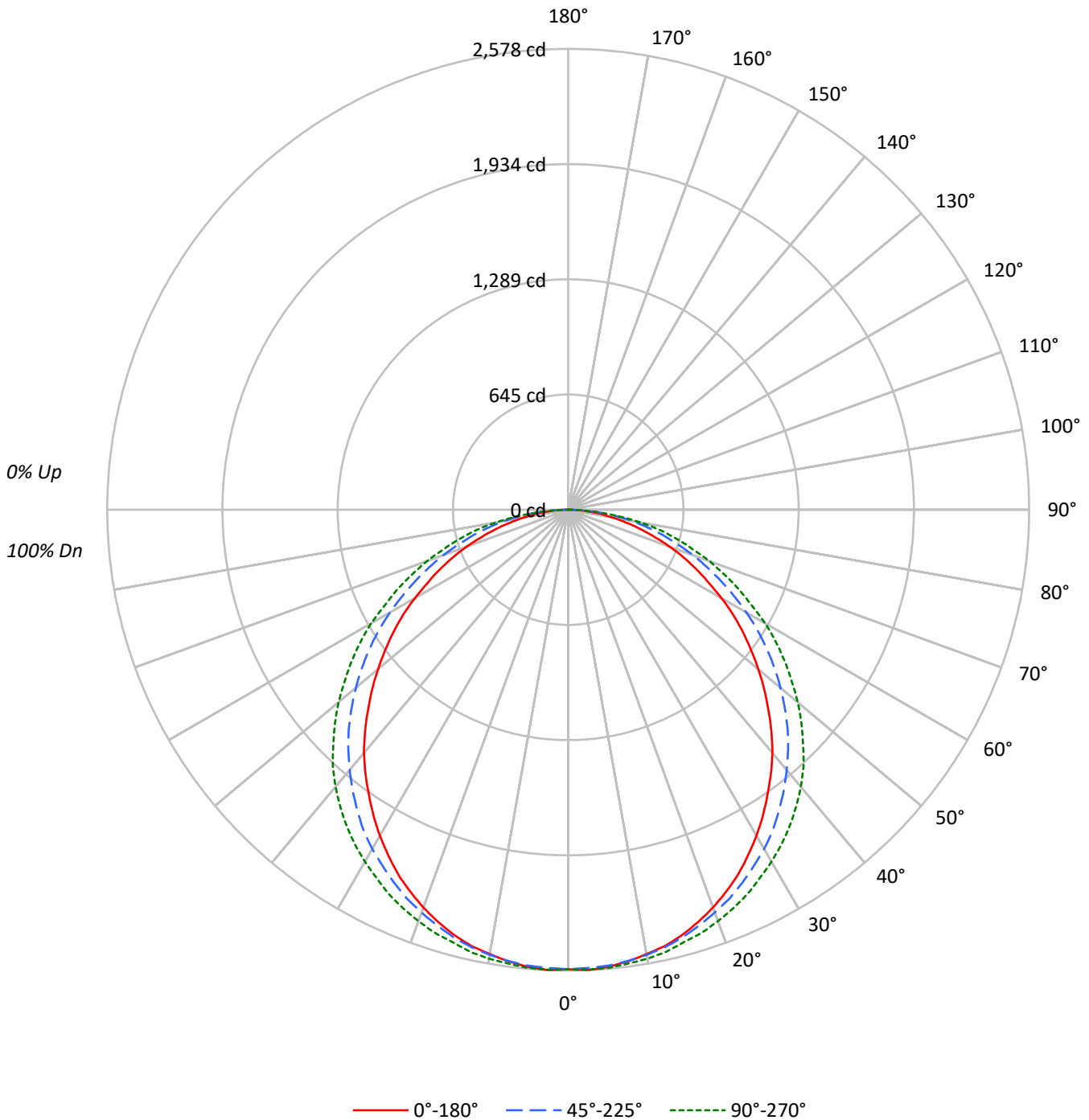
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 7494.2 lumens
Efficiency: 84.7%
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 79.5
Input Voltage (V): NR
Input Current (A_{in}): 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	101	101	101	101	98	98	98	98	94	94	94		90	90	90		86	86	86	85
1	92	88	84	81	89	86	82	79	82	79	77		79	76	74		76	74	72	70
2	83	76	70	65	81	75	69	65	72	67	63		69	65	62		66	63	60	58
3	76	67	60	54	74	65	59	54	63	57	53		61	56	52		58	54	51	49
4	69	59	52	46	67	58	51	45	56	50	45		54	48	44		52	47	44	42
5	64	53	45	39	62	52	45	39	50	44	39		48	43	38		47	42	38	36
6	59	47	40	34	57	47	39	34	45	39	34		44	38	33		42	37	33	31
7	55	43	35	30	53	42	35	30	41	35	30		40	34	30		39	33	29	28
8	51	39	32	27	49	39	32	27	37	31	27		36	31	27		35	30	26	25
9	47	36	29	24	46	35	29	24	34	28	24		34	28	24		33	28	24	22
10	44	33	26	22	43	33	26	22	32	26	22		31	26	22		30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3459	3459	3459
5°	3467	3459	3475
10°	3448	3455	3484
15°	3431	3449	3488
20°	3391	3434	3507
25°	3342	3419	3523
30°	3272	3404	3533
35°	3193	3375	3548
40°	3121	3339	3555
45°	3012	3301	3535
50°	2905	3244	3508
55°	2796	3181	3467
60°	2664	3097	3428
65°	2528	2999	3352
70°	2380	2927	3297
75°	2173	2844	3260
80°	1976	2797	3169
85°	1698	2624	2624



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	243.9	3.3	2.8	0°	2571	2571	2571	2571	2571	
10°-20°	700.2	9.3	7.9	5°	2567	2566	2561	2569	2573	244
20°-30°	1063.8	14.2	12.0	15°	2463	2465	2476	2499	2504	694
30°-40°	1285.6	17.2	14.5	25°	2251	2264	2303	2355	2373	1035
40°-50°	1333.4	17.8	15.1	35°	1944	1983	2055	2130	2160	1217
50°-60°	1203.4	16.1	13.6	45°	1583	1633	1735	1830	1858	1222
60°-70°	924.1	12.3	10.4	55°	1192	1243	1356	1447	1478	1065
70°-80°	565.2	7.5	6.4	65°	794	847	942	1025	1053	786
80°-90°	174.6	2.3	2.0	75°	418	461	547	605	627	444
90°-100°	0.0	0.0	0.0	85°	110	139	170	164	170	129
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°	2007.9	26.8	22.7							
0°-40°	3293.6	43.9	37.2							
0°-60°	5830.3	77.8	65.9							
0°-90°	7494.2	100.0	84.7							
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°	7494.2	100.0	84.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2571	2571	2571	2571	2571
2.5°	2578	2569	2566	2572	2575
5°	2567	2566	2561	2569	2573
7.5°	2549	2550	2547	2558	2561
10°	2524	2528	2529	2544	2550
12.5°	2500	2501	2506	2520	2533
15°	2463	2465	2476	2499	2504
17.5°	2418	2427	2438	2470	2482
20°	2368	2377	2398	2434	2449
22.5°	2311	2324	2355	2398	2413
25°	2251	2264	2303	2355	2373
27.5°	2179	2203	2247	2307	2322
30°	2106	2132	2191	2255	2274
32.5°	2027	2061	2129	2194	2220
35°	1944	1983	2055	2130	2160
37.5°	1862	1899	1980	2064	2094
40°	1777	1814	1901	1990	2024
42.5°	1682	1723	1820	1916	1948
45°	1583	1633	1735	1830	1858
47.5°	1487	1538	1643	1737	1769
50°	1388	1442	1550	1647	1676
52.5°	1290	1351	1454	1549	1576
55°	1192	1243	1356	1447	1478
57.5°	1094	1143	1256	1351	1377
60°	990	1042	1151	1241	1274
62.5°	887	939	1046	1131	1154
65°	794	847	942	1025	1053
67.5°	699	743	840	916	944
70°	605	643	744	810	838
72.5°	507	551	638	713	726
75°	418	461	547	605	627
77.5°	330	379	449	508	526
80°	255	293	361	400	409
82.5°	182	212	268	283	286
85°	110	139	170	164	170
87.5°	53	65	70	69	69
90°	0	0	0	0	0

(END OF REPORT)