

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P30608

Luminaire Tested: **2GC-WO-332A125-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30608
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-WO-332A125-UNV-EB81
Description: METALUX GC RECESSED 2x4 LINEAR FLUORESCENT TROFFER WITH A
WHITE OPTICS HOUSING, PAF BALLAST COVER, AND 0.125" THICK ACRYLIC
PRISMATIC A12 LENS IN DOORFRAME
Light Source: (3) THREE LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -
GE332MAX-N/ULTRA

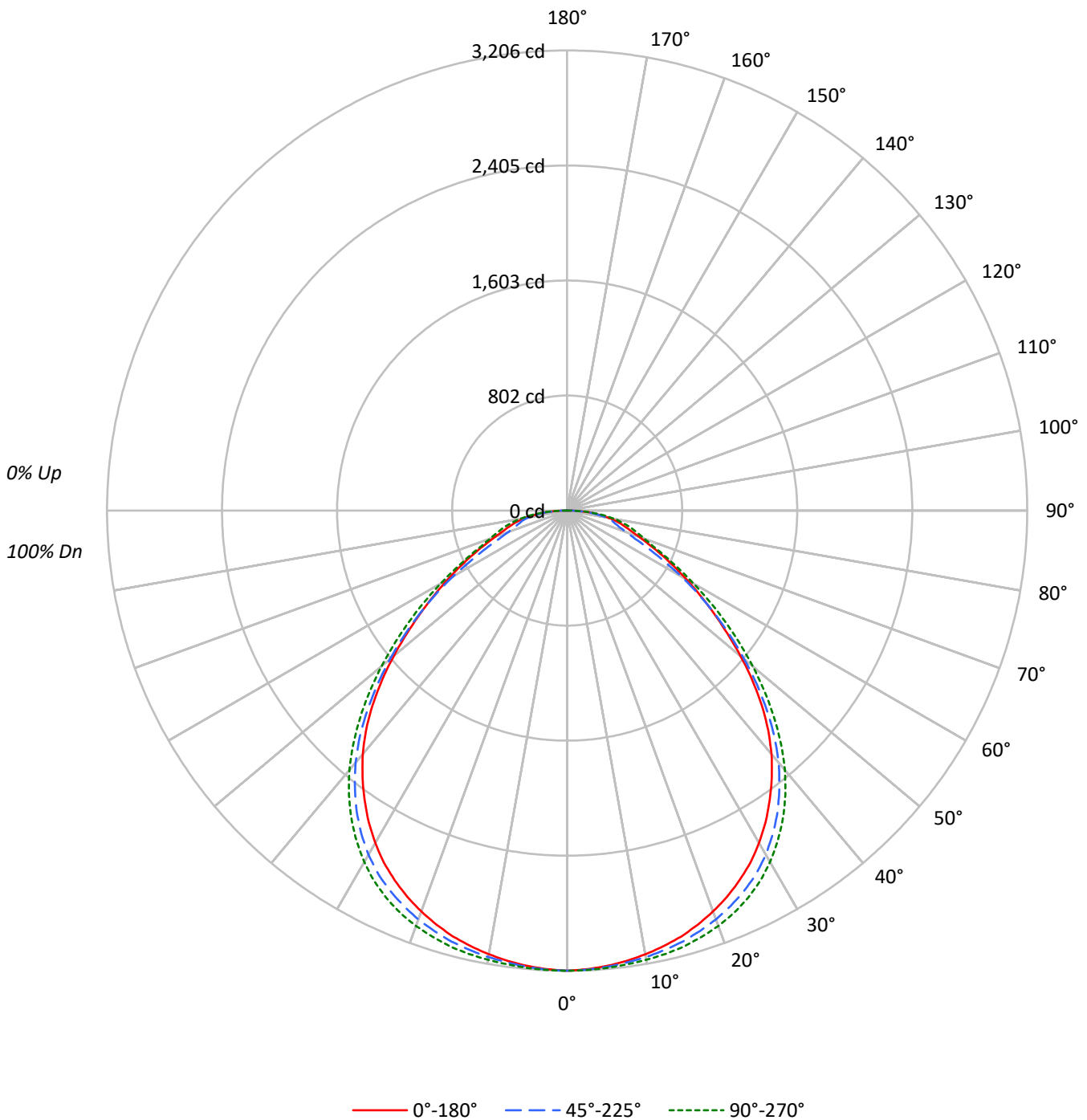
Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 8046.7 lumens
Efficiency: 86.5%
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 83.6
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	103	103	103	103	101	101	101	101	96	96	96	92	92	92	88	88	88	86
1	95	91	87	84	92	89	86	83	85	83	80	82	80	78	79	77	75	74
2	87	80	74	70	84	78	73	69	75	71	67	73	69	66	70	67	64	63
3	80	71	64	59	77	70	63	58	67	62	57	65	60	56	63	59	55	54
4	73	63	56	51	71	62	55	50	60	54	50	58	53	49	56	52	48	46
5	68	57	50	44	66	56	49	44	54	48	43	53	47	43	51	46	42	41
6	63	52	44	39	61	51	44	39	49	43	38	48	42	38	46	41	38	36
7	58	47	40	34	57	46	39	34	45	39	34	44	38	34	43	37	34	32
8	54	43	36	31	53	42	36	31	41	35	31	40	35	30	39	34	30	29
9	51	39	33	28	50	39	32	28	38	32	28	37	32	28	36	31	27	26
10	48	36	30	25	47	36	30	25	35	29	25	34	29	25	34	29	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4697	4697	4697
5°	4684	4693	4703
10°	4670	4699	4728
15°	4659	4715	4769
20°	4634	4725	4802
25°	4594	4723	4816
30°	4524	4683	4782
35°	4401	4573	4688
40°	4236	4383	4513
45°	3974	4080	4227
50°	3594	3669	3847
55°	3183	3211	3418
60°	2819	2687	2980
65°	2492	2163	2603
70°	2275	1859	2446
75°	2315	1959	2592
80°	2497	2312	2826
85°	2740	2572	3042



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	303.5	3.8	3.3	0°	3206	3206	3206	3206	3206	
10°-20°	877.0	10.9	9.4	5°	3185	3185	3191	3192	3198	303
20°-30°	1341.7	16.7	14.4	15°	3072	3081	3109	3128	3144	866
30°-40°	1588.5	19.7	17.1	25°	2842	2868	2922	2957	2979	1308
40°-50°	1514.7	18.8	16.3	35°	2461	2496	2557	2597	2621	1537
50°-60°	1145.8	14.2	12.3	45°	1918	1925	1969	2010	2040	1472
60°-70°	689.4	8.6	7.4	55°	1246	1250	1257	1319	1338	1121
70°-80°	408.1	5.1	4.4	65°	719	663	624	705	751	721
80°-90°	175.8	2.2	1.9	75°	409	355	346	398	458	433
90°-100°	2.2	0.0	0.0	85°	163	157	153	192	181	159
100°-110°	0.0	0.0	0.0	90°	12	15	15	20	18	15
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	2522.1	31.3	27.1	165°	0	0	0	0	0	0
0°-40°	4110.6	51.1	44.2	175°	0	0	0	0	0	0
0°-60°	6771.1	84.1	72.8	180°	0	0	0	0	0	0
0°-90°	8044.4	100.0	86.5							
90°-120°	2.2	0.0	0.0							
90°-150°	2.2	0.0	0.0							
90°-180°	2.0	0.0	0.0							
0°-180°	8046.7	100.0	86.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3206	3206	3206	3206	3206
2.5°	3198	3195	3201	3199	3204
5°	3185	3185	3191	3192	3198
7.5°	3165	3168	3176	3181	3189
10°	3139	3144	3159	3168	3178
12.5°	3108	3114	3136	3151	3164
15°	3072	3081	3109	3128	3144
17.5°	3025	3038	3072	3096	3114
20°	2972	2991	3031	3060	3080
22.5°	2912	2933	2980	3014	3035
25°	2842	2868	2922	2957	2979
27.5°	2765	2795	2853	2890	2911
30°	2674	2707	2768	2804	2827
32.5°	2573	2608	2669	2706	2730
35°	2461	2496	2557	2597	2621
37.5°	2342	2370	2429	2472	2497
40°	2215	2235	2292	2333	2360
42.5°	2073	2087	2139	2178	2206
45°	1918	1925	1969	2010	2040
47.5°	1750	1756	1792	1838	1866
50°	1577	1581	1610	1665	1688
52.5°	1406	1414	1432	1491	1510
55°	1246	1250	1257	1319	1338
57.5°	1099	1094	1085	1149	1173
60°	962	939	917	985	1017
62.5°	834	792	756	833	874
65°	719	663	624	705	751
67.5°	617	554	513	598	647
70°	531	472	434	516	571
72.5°	462	408	381	450	511
75°	409	355	346	398	458
77.5°	357	308	316	355	399
80°	296	262	274	312	335
82.5°	229	212	216	259	262
85°	163	157	153	192	181
87.5°	87	88	81	103	95
90°	12	15	15	20	18
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)