

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: P30644

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30644
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 ACRYLIC PRISMATIC
A12 LENS IN DOORFRAME
Light Source: (3) THREE LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -
GE332MAX-N/ULTRA

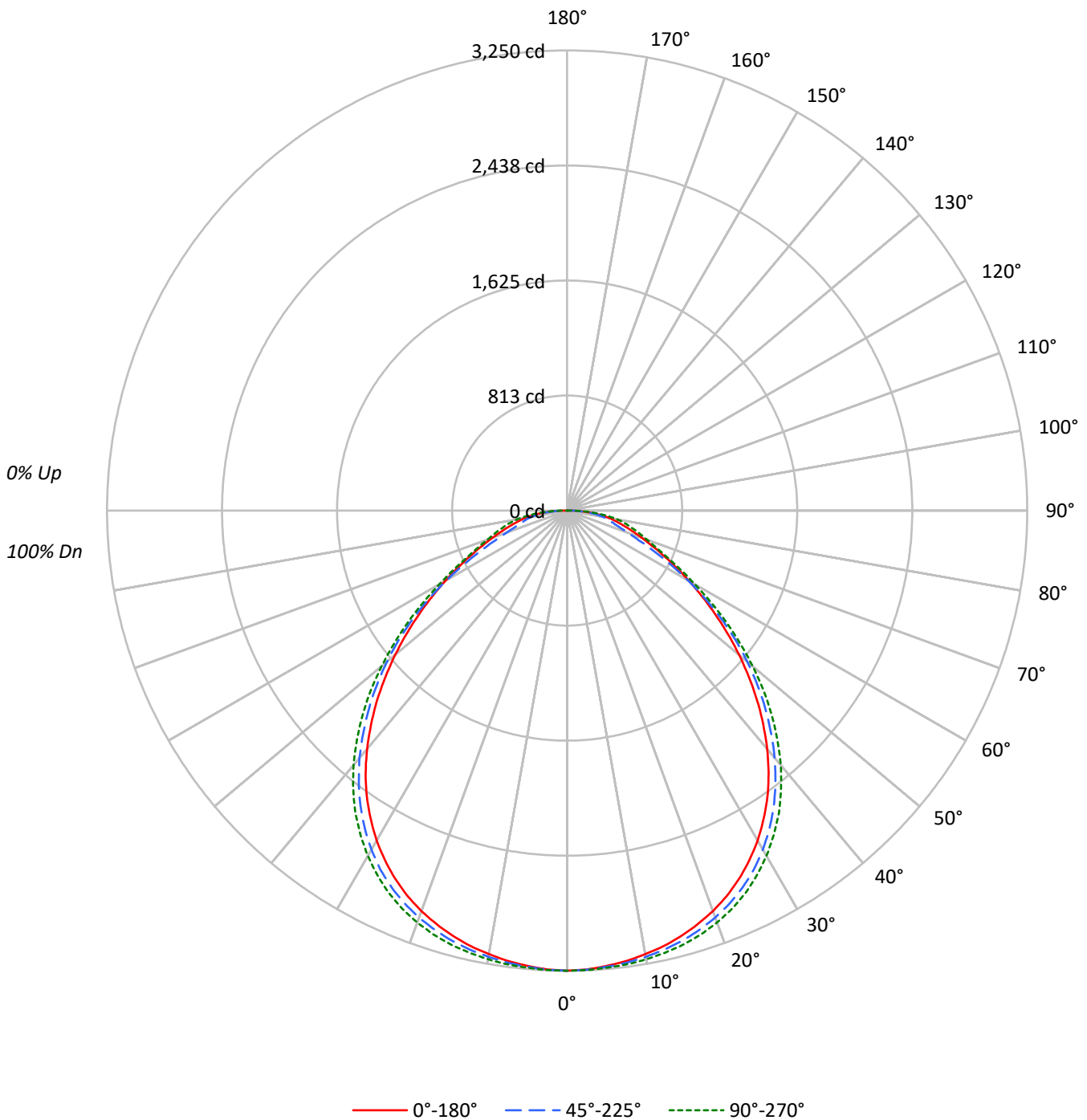
Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 8163.8 lumens
Efficiency: 87.8%
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 83.7
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	104	104	104	104	102	102	102	102	98	98	98	93	93	93	90	90	90	88
1	96	92	88	85	94	90	87	84	86	84	81	83	81	79	80	78	76	74
2	88	81	75	71	86	79	74	70	76	72	68	73	70	67	71	68	65	63
3	81	72	65	60	78	70	64	59	68	62	58	65	61	57	63	59	56	54
4	74	64	57	51	72	63	56	51	61	55	50	59	54	49	57	52	49	47
5	68	58	50	44	67	57	49	44	55	48	44	53	48	43	51	47	43	41
6	63	52	44	39	62	51	44	39	50	43	39	48	43	38	47	42	38	36
7	59	47	40	35	57	47	40	35	45	39	34	44	38	34	43	38	34	32
8	55	43	36	31	54	43	36	31	42	35	31	41	35	31	39	34	30	29
9	51	40	33	28	50	39	33	28	38	32	28	37	32	28	37	31	28	26
10	48	37	30	26	47	36	30	26	36	30	25	35	29	25	34	29	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4761	4761	4761
5°	4746	4756	4765
10°	4732	4760	4787
15°	4718	4770	4813
20°	4693	4768	4827
25°	4641	4746	4817
30°	4552	4677	4764
35°	4412	4553	4663
40°	4206	4362	4490
45°	3934	4104	4237
50°	3613	3788	3900
55°	3264	3387	3494
60°	2915	2880	3059
65°	2600	2333	2694
70°	2394	1940	2557
75°	2349	1885	2689
80°	2548	2185	3029
85°	2807	2555	3379



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	307.5	3.8	3.3	0°	3250	3250	3250	3250	3250	
10°-20°	886.8	10.9	9.5	5°	3227	3226	3234	3234	3240	307
20°-30°	1347.6	16.5	14.5	15°	3111	3120	3145	3158	3173	878
30°-40°	1583.6	19.4	17.0	25°	2871	2893	2936	2960	2980	1321
40°-50°	1518.8	18.6	16.3	35°	2467	2494	2546	2582	2607	1538
50°-60°	1180.5	14.5	12.7	45°	1899	1931	1981	2013	2045	1461
60°-70°	729.9	8.9	7.8	55°	1278	1288	1326	1345	1368	1145
70°-80°	424.0	5.2	4.6	65°	750	708	673	749	777	752
80°-90°	181.0	2.2	1.9	75°	415	374	333	432	475	445
90°-100°	4.1	0.0	0.0	85°	167	149	152	198	201	163
100°-110°	0.0	0.0	0.0	90°	13	20	27	44	43	16
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°	2541.9	31.1	27.3	165°	0	0	0	0	0	0
0°-40°	4125.5	50.5	44.4	175°	0	0	0	0	0	0
0°-60°	6824.7	83.6	73.4	180°	0	0	0	0	0	0
0°-90°	8159.7	100.0	87.7							
90°-120°	4.1	0.0	0.0							
90°-150°	4.1	0.0	0.0							
90°-180°	4.0	0.0	0.0							
0°-180°	8163.8	100.0	87.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3250	3250	3250	3250	3250
2.5°	3244	3240	3246	3244	3248
5°	3227	3226	3234	3234	3240
7.5°	3209	3211	3221	3224	3233
10°	3181	3185	3200	3207	3218
12.5°	3151	3156	3176	3187	3198
15°	3111	3120	3145	3158	3173
17.5°	3064	3077	3106	3124	3139
20°	3010	3024	3058	3079	3096
22.5°	2946	2964	3002	3025	3044
25°	2871	2893	2936	2960	2980
27.5°	2786	2811	2857	2884	2903
30°	2691	2717	2765	2796	2816
32.5°	2583	2610	2661	2694	2716
35°	2467	2494	2546	2582	2607
37.5°	2338	2365	2417	2454	2482
40°	2199	2228	2281	2316	2348
42.5°	2050	2081	2132	2167	2199
45°	1899	1931	1981	2013	2045
47.5°	1741	1773	1823	1852	1881
50°	1585	1613	1662	1685	1711
52.5°	1429	1451	1496	1515	1539
55°	1278	1288	1326	1345	1368
57.5°	1131	1129	1153	1175	1200
60°	995	978	983	1017	1044
62.5°	865	835	819	872	901
65°	750	708	673	749	777
67.5°	648	601	548	647	678
70°	559	512	453	564	597
72.5°	483	438	383	495	535
75°	415	374	333	432	475
77.5°	356	315	297	377	420
80°	302	261	259	324	359
82.5°	237	204	210	267	286
85°	167	149	152	198	201
87.5°	90	83	83	117	118
90°	13	20	27	44	43
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)