

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: 108P108

Luminaire Tested: **2GC-SS-340A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-SS-340A
Description: 2 X 4 Recessed Troffer with silver steel housing
and .095 pattern 12 acrylic lens.
Light Source: Three-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

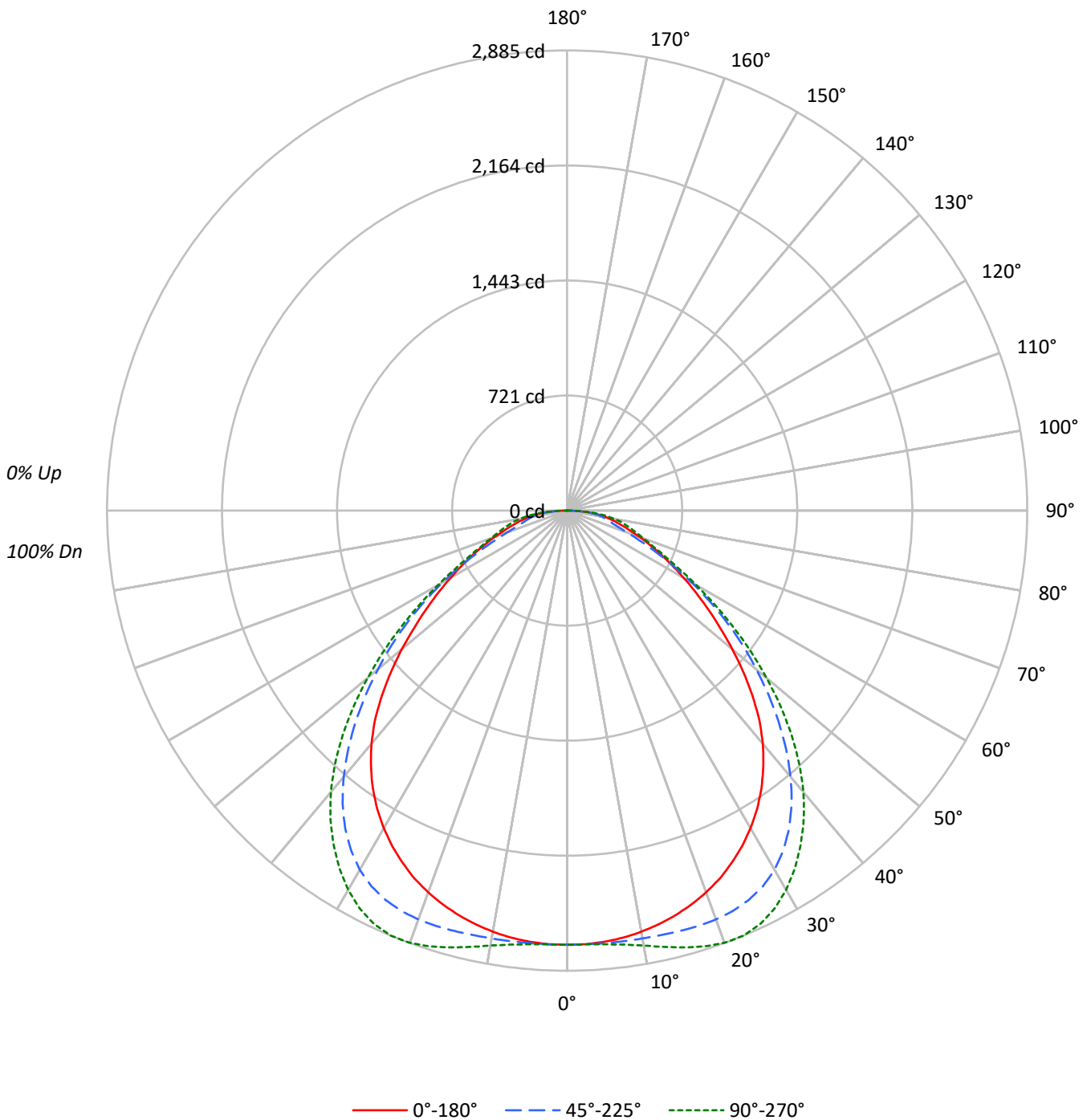
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 7392.7 lumens
Efficiency: 78.2%
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.43 / 1.4
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 131.6
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									
RC	80									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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	78													
1	86	82	79	76	84	80	77	75	77	75	73	74	72	70	71	70	68	68	67	67	67	67	67	67													
2	78	72	67	63	76	71	66	62	68	64	61	66	62	60	63	61	58	57	57	57	57	57	57	57													
3	72	64	58	53	70	63	57	53	61	56	52	58	54	51	56	53	50	48	48	48	48	48	48	48													
4	66	57	51	46	64	56	50	45	54	49	45	52	48	44	51	47	44	42	42	42	42	42	42	42													
5	61	51	45	40	59	50	44	39	49	43	39	47	42	39	46	42	38	37	37	37	37	37	37	37													
6	56	46	40	35	55	46	39	35	44	39	34	43	38	34	42	37	34	32	32	32	32	32	32	32													
7	52	42	36	31	51	42	35	31	40	35	31	39	34	30	38	34	30	29	29	29	29	29	29	29													
8	49	39	32	28	48	38	32	28	37	31	27	36	31	27	35	31	27	26	26	26	26	26	26	26													
9	46	35	29	25	45	35	29	25	34	29	25	33	28	25	32	28	24	23	23	23	23	23	23	23													
10	43	33	27	23	42	32	26	23	32	26	22	31	26	22	30	26	22	21	21	21	21	21	21	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4289	4289	4289
5°	4291	4306	4317
10°	4290	4359	4431
15°	4284	4452	4625
20°	4271	4575	4836
25°	4241	4684	4974
30°	4183	4731	4995
35°	4086	4669	4911
40°	3925	4482	4741
45°	3661	4181	4432
50°	3314	3797	4003
55°	2964	3360	3486
60°	2660	2843	2947
65°	2409	2278	2506
70°	2221	1834	2340
75°	2143	1723	2448
80°	2296	2024	2741
85°	2531	2387	3037



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	259.9	3.5	2.8	0°	2722	2722	2722	2722	2722	
10°-20°	772.9	10.5	8.2	5°	2713	2714	2722	2729	2729	258
20°-30°	1228.3	16.6	13.0	15°	2626	2651	2729	2806	2835	741
30°-40°	1484.1	20.1	15.7	25°	2439	2516	2694	2820	2861	1123
40°-50°	1419.9	19.2	15.0	35°	2124	2243	2427	2519	2553	1325
50°-60°	1070.3	14.5	11.3	45°	1643	1748	1876	1950	1989	1263
60°-70°	642.1	8.7	6.8	55°	1079	1131	1223	1252	1269	970
70°-80°	365.3	4.9	3.9	65°	646	607	611	663	672	645
80°-90°	150.1	2.0	1.6	75°	352	330	283	375	402	378
90°-100°	0.0	0.0	0.0	85°	140	131	132	158	168	137
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	10
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°	2261.1	30.6	23.9	165°	0	0	0	0	0	0
0°-40°	3745.1	50.7	39.6	175°	0	0	0	0	0	0
0°-60°	6235.2	84.3	66.0	180°	0	0	0	0	0	0
0°-90°	7392.7	100.0	78.2							
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°	7392.7	100.0	78.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2722	2722	2722	2722	2722
2.5°	2721	2720	2722	2723	2722
5°	2713	2714	2722	2729	2729
7.5°	2700	2704	2723	2740	2744
10°	2681	2691	2724	2758	2769
12.5°	2656	2673	2726	2780	2802
15°	2626	2651	2729	2806	2835
17.5°	2590	2625	2731	2829	2865
20°	2547	2595	2728	2842	2884
22.5°	2498	2559	2716	2841	2885
25°	2439	2516	2694	2820	2861
27.5°	2373	2464	2656	2776	2814
30°	2299	2402	2600	2709	2745
32.5°	2217	2329	2523	2622	2658
35°	2124	2243	2427	2519	2553
37.5°	2021	2142	2313	2400	2437
40°	1908	2026	2179	2265	2305
42.5°	1784	1892	2033	2115	2154
45°	1643	1748	1876	1950	1989
47.5°	1498	1596	1713	1777	1814
50°	1352	1440	1549	1602	1633
52.5°	1210	1285	1387	1425	1452
55°	1079	1131	1223	1252	1269
57.5°	957	982	1061	1086	1097
60°	844	839	902	926	935
62.5°	740	716	749	782	791
65°	646	607	611	663	672
67.5°	560	517	493	568	580
70°	482	443	398	494	508
72.5°	411	382	329	432	451
75°	352	330	283	375	402
77.5°	301	280	252	322	355
80°	253	229	223	271	302
82.5°	200	180	183	219	240
85°	140	131	132	158	168
87.5°	76	76	73	93	97
90°	0	0	0	0	0
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)