

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: 108P122

Luminaire Tested: **2GC-440A125-PAF**

Issue Date: 3/3/2020



**Test Information**

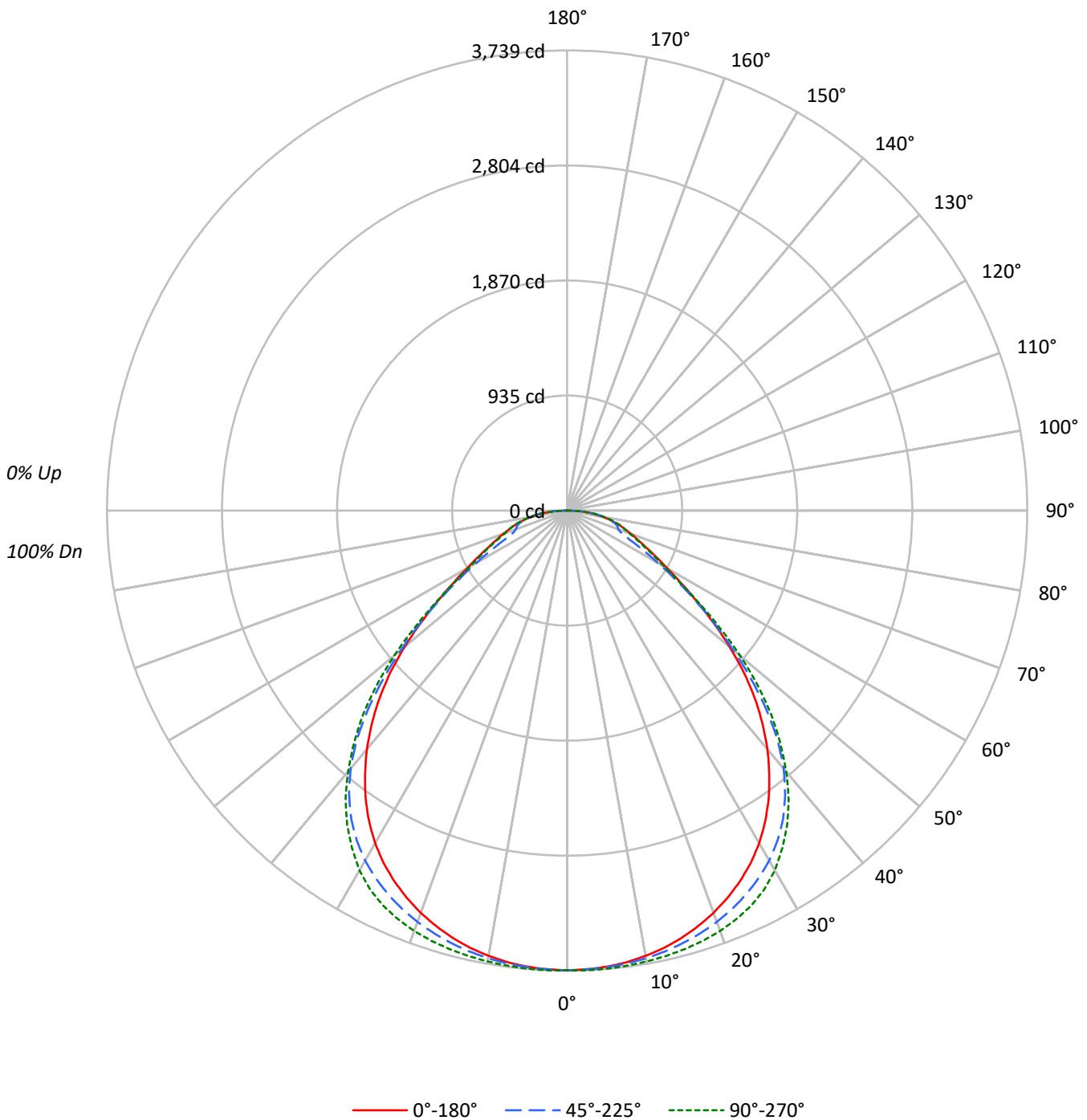
Test Method: LM-41-14  
Report Number: 108P122  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-440A125-PAF  
Description: 2 X 4 Recessed Troffer with a Plaskolite .125  
pattern 12 acrylic lens.  
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3150 (4 lamps)  
Luminaire Lumens: 8988.1 lumens  
Efficiency: 71.3%  
Efficacy: 53.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.34  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 167.2  
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

TEST NUMBER: 108P122  
CATALOG NUMBER: 2GC-440A125-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 108P122

CATALOG NUMBER: 2GC-440A125-PAF

**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	50	30	10	50	30	10	0		
RCR																										
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71					71			
1	78	75	72	70	76	74	71	69	71	69	67	68	66	65	65	64	63					61				
2	72	67	62	58	70	65	61	58	63	59	56	60	58	55	58	56	54					52				
3	66	59	54	50	65	58	53	49	56	52	48	54	51	48	52	49	47					45				
4	61	53	47	43	59	52	47	43	50	46	42	49	45	41	47	44	41					40				
5	56	48	42	38	55	47	42	37	46	41	37	44	40	37	43	39	36					35				
6	52	43	37	33	51	43	37	33	42	36	33	40	36	32	39	35	32					31				
7	49	40	34	30	48	39	33	29	38	33	29	37	32	29	36	32	29					27				
8	45	36	30	27	44	36	30	26	35	30	26	34	29	26	33	29	26					25				
9	43	33	28	24	42	33	28	24	32	27	24	31	27	24	31	27	24					22				
10	40	31	25	22	39	31	25	22	30	25	22	29	25	22	29	24	22					20				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5903	5903	5903
5°	5901	5908	5927
10°	5896	5926	5970
15°	5880	5952	6036
20°	5849	5980	6112
25°	5794	6000	6173
30°	5694	5991	6157
35°	5508	5900	6012
40°	5222	5646	5713
45°	4821	5125	5241
50°	4236	4335	4512
55°	3543	3488	3590
60°	2977	2702	2886
65°	2640	2102	2584
70°	2546	2038	2477
75°	2607	2461	2668
80°	2694	2776	2803
85°	2919	3101	3209



TEST NUMBER: 108P122

CATALOG NUMBER: 2GC-440A125-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	354.7	3.9	2.8	0°	3735	3735	3735	3735	3735	
10°-20°	1028.4	11.4	8.2	5°	3720	3721	3724	3731	3736	354
20°-30°	1582.5	17.6	12.6	15°	3594	3609	3638	3673	3689	1014
30°-40°	1882.0	20.9	14.9	25°	3323	3363	3441	3513	3540	1529
40°-50°	1741.8	19.4	13.8	35°	2855	2940	3058	3106	3116	1779
50°-60°	1163.8	12.9	9.2	45°	2157	2225	2293	2339	2345	1653
60°-70°	640.8	7.1	5.1	55°	1286	1294	1266	1302	1303	1163
70°-80°	417.7	4.6	3.3	65°	706	621	562	617	691	714
80°-90°	176.2	2.0	1.4	75°	427	385	403	373	437	449
90°-100°	0.0	0.0	0.0	85°	161	169	171	175	177	158
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	12
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°	2965.7	33.0	23.5	165°	0	0	0	0	0	0
0°-40°	4847.7	53.9	38.5	175°	0	0	0	0	0	0
0°-60°	7753.4	86.3	61.5	180°	0	0	0	0	0	0
0°-90°	8988.1	100.0	71.3							
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°	8988.1	100.0	71.3							



TEST NUMBER: 108P122

CATALOG NUMBER: 2GC-440A125-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3735	3735	3735	3735	3735
2.5°	3731	3732	3730	3735	3739
5°	3720	3721	3724	3731	3736
7.5°	3702	3706	3712	3723	3730
10°	3674	3681	3693	3711	3720
12.5°	3639	3649	3669	3694	3707
15°	3594	3609	3638	3673	3689
17.5°	3540	3560	3601	3647	3666
20°	3478	3503	3556	3611	3634
22.5°	3405	3437	3503	3568	3593
25°	3323	3363	3441	3513	3540
27.5°	3229	3277	3368	3445	3469
30°	3120	3178	3283	3355	3374
32.5°	2995	3067	3181	3239	3253
35°	2855	2940	3058	3106	3116
37.5°	2698	2795	2910	2953	2957
40°	2531	2628	2737	2773	2769
42.5°	2349	2440	2532	2568	2564
45°	2157	2225	2293	2339	2345
47.5°	1948	1992	2029	2088	2100
50°	1723	1751	1763	1820	1835
52.5°	1498	1517	1508	1556	1560
55°	1286	1294	1266	1302	1303
57.5°	1098	1081	1044	1074	1081
60°	942	896	855	882	913
62.5°	811	743	692	729	790
65°	706	621	562	617	691
67.5°	622	534	476	536	606
70°	551	478	441	473	536
72.5°	486	433	430	418	486
75°	427	385	403	373	437
77.5°	365	338	357	338	376
80°	296	290	305	298	308
82.5°	227	234	247	244	244
85°	161	169	171	175	177
87.5°	86	90	80	90	88
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



TEST NUMBER: 108P122

CATALOG NUMBER: 2GC-440A125-PAF

**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)