

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: 126P112

Luminaire Tested: **2GC-3BX40PB1S-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 126P112  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-3BX40PB1S-PAF  
Description: 2 X 2 Recessed Convertible Body Troffer with a specular  
silver injection molded parabolic louver .5" X .5" X .5".  
Light Source: Three - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: Magnetek C340I120RH Electronic - L.O.B.F. = 90.8

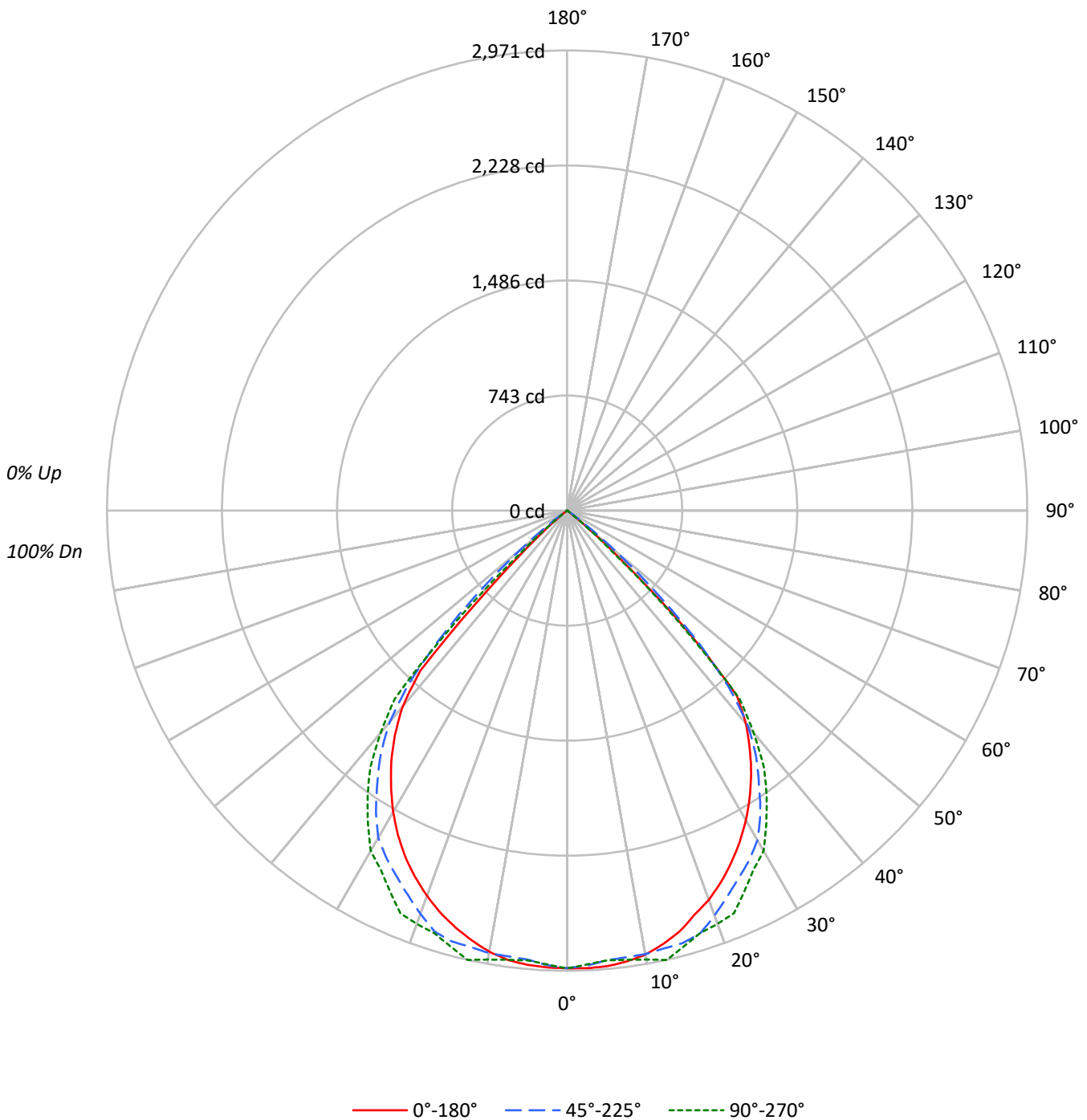
**Summary**

Lumens per Lamp: 3150 (3 lamps)  
Luminaire Lumens: 4468.9 lumens  
Efficiency: 47.3%  
Efficacy: 45.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.22  
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.3  
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									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	50	30	10	0																			
RCR																																														
0	56	56	56	56	55	55	55	55	53	53	53	50	50	50	48	48	48	47																												
1	53	52	51	49	52	51	50	49	49	48	47	47	46	46	46	45	44	44																												
2	50	48	46	44	49	47	45	43	45	44	42	44	43	41	43	42	41	40																												
3	47	44	41	39	46	43	41	39	42	40	38	41	39	38	40	38	37	36																												
4	44	40	37	35	44	40	37	35	39	36	35	38	36	34	37	35	34	33																												
5	42	37	34	32	41	37	34	32	36	33	31	35	33	31	34	32	31	30																												
6	39	34	31	29	38	34	31	29	33	31	29	33	30	28	32	30	28	27																												
7	37	32	29	26	36	31	28	26	31	28	26	30	28	26	30	27	26	25																												
8	35	30	26	24	34	29	26	24	29	26	24	28	26	24	28	25	24	23																												
9	33	27	24	22	32	27	24	22	27	24	22	26	24	22	26	24	22	21																												
10	31	26	22	20	30	25	22	20	25	22	20	25	22	20	24	22	20	20																												

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

	0°	90°	180°
0°	9851	9851	9851
5°	9882	9755	9852
10°	9854	9963	9790
15°	9705	10050	9619
20°	9487	10072	9391
25°	9225	9965	9086
30°	8885	9766	8646
35°	8433	9137	8054
40°	7812	8147	7198
45°	5196	4804	3333
50°	908	773	493
55°	29	23	23
60°	33	27	27
65°	32	24	24
70°	29	19	19
75°	13	13	26
80°	19	19	38
85°	38	0	38



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	278.8	6.2	3.0	0°	2955	2955	2955	2955	2955	
10°-20°	806.5	18.0	8.5	5°	2953	2914	2915	2910	2944	280
20°-30°	1202.9	26.9	12.7	15°	2812	2890	2912	2880	2787	791
30°-40°	1335.5	29.9	14.1	25°	2508	2618	2709	2606	2470	1153
40°-50°	796.5	17.8	8.4	35°	2072	2160	2245	2136	1979	1290
50°-60°	43.6	1.0	0.5	45°	1102	1171	1019	1135	707	792
60°-70°	2.9	0.1	0.0	55°	5	39	4	36	4	29
70°-80°	1.6	0.0	0.0	65°	4	3	3	3	3	4
80°-90°	0.6	0.0	0.0	75°	1	1	1	1	2	2
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	2288.2	51.2	24.2	165°	0	0	0	0	0	0
0°-40°	3623.7	81.1	38.3	175°	0	0	0	0	0	0
0°-60°	4463.8	99.9	47.2	180°	0	0	0	0	0	0
0°-90°	4468.9	100.0	47.3							
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°	4468.9	100.0	47.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2955	2955	2955	2955	2955	2955	2955	2955	2955
2.5°	2957	2952	2940	2938	2933	2934	2938	2947	2952
5°	2953	2938	2914	2915	2915	2911	2910	2932	2944
7.5°	2937	2912	2909	2926	2925	2923	2903	2905	2926
10°	2911	2882	2907	2930	2943	2927	2901	2871	2892
12.5°	2866	2843	2895	2965	2971	2960	2885	2832	2843
15°	2812	2798	2890	2932	2912	2924	2880	2788	2787
17.5°	2736	2747	2861	2872	2859	2862	2849	2738	2722
20°	2674	2689	2782	2822	2839	2814	2770	2676	2647
22.5°	2596	2623	2699	2799	2814	2789	2687	2607	2562
25°	2508	2553	2618	2733	2709	2722	2606	2529	2470
27.5°	2412	2476	2545	2605	2609	2593	2528	2447	2364
30°	2308	2379	2457	2497	2537	2488	2439	2339	2246
32.5°	2194	2260	2322	2393	2393	2383	2298	2207	2116
35°	2072	2128	2160	2210	2245	2203	2136	2065	1979
37.5°	1937	1986	2004	2041	2087	2034	1975	1909	1826
40°	1795	1825	1819	1838	1872	1833	1781	1728	1654
42.5°	1623	1551	1543	1524	1646	1521	1507	1446	1400
45°	1102	1167	1171	1125	1019	1132	1135	1063	707
47.5°	485	597	755	584	415	578	736	514	286
50°	175	207	403	194	149	194	388	169	95
52.5°	35	51	152	49	23	48	145	40	8
55°	5	8	39	6	4	6	36	5	4
57.5°	5	4	7	4	4	4	7	4	4
60°	5	4	3	3	4	3	4	4	4
62.5°	4	4	3	3	4	3	3	3	3
65°	4	3	3	2	3	3	3	3	3
67.5°	3	3	2	2	3	2	2	3	3
70°	3	2	2	2	2	2	2	2	2
72.5°	2	2	1	1	2	2	2	2	2
75°	1	2	1	1	1	2	1	2	2
77.5°	1	2	1	1	1	1	1	2	2
80°	1	1	1	1	1	1	1	2	2
82.5°	1	1	0	0	0	0	1	1	1
85°	1	1	0	0	0	0	0	1	1
87.5°	0	1	0	0	0	1	1	1	1
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)