

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: 126P131

Luminaire Tested: **2GC-3BX40A125**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 126P131  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-3BX40A125  
Description: 2 X 2 Recessed Convertible Body Luminaire with a  
.125 pattern 12 acrylic lens.  
Light Source: Three - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: Sylvania QT-3X40/120DL Electronic - L.O.B.F. = 95.1

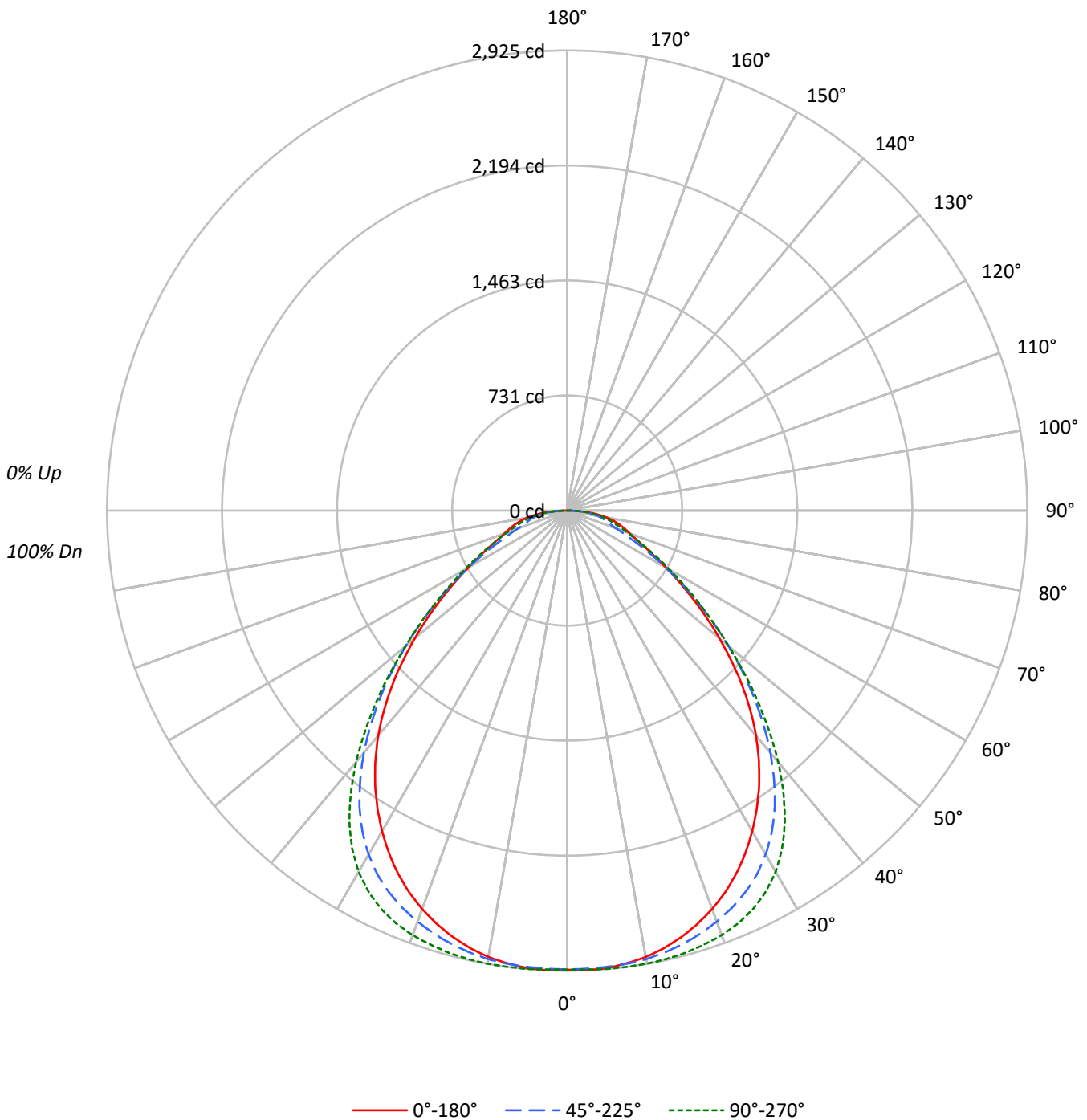
**Summary**

Lumens per Lamp: 3150 (3 lamps)  
Luminaire Lumens: 6879.3 lumens  
Efficiency: 72.8%  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.31  
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 107  
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	50	30	10	0	
RCR																						
0	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	74	74	74	73	
1	80	77	74	71	78	75	73	70	72	70	68	69	68	66	67	65	64	64	64	64	63	
2	73	68	63	60	72	67	63	59	64	61	58	62	59	56	60	57	55	55	55	55	54	
3	68	61	55	51	66	59	54	50	57	53	49	55	52	49	54	50	48	48	48	48	46	
4	62	54	48	44	61	53	48	44	52	47	43	50	46	42	48	45	42	42	42	42	40	
5	58	49	43	38	56	48	42	38	47	42	38	45	41	37	44	40	37	37	37	37	36	
6	53	44	38	34	52	44	38	34	42	37	33	41	37	33	40	36	33	33	33	33	31	
7	50	40	34	30	49	40	34	30	39	34	30	38	33	30	37	33	30	30	30	30	28	
8	46	37	31	27	45	37	31	27	36	31	27	35	30	27	34	30	27	27	27	27	25	
9	43	34	28	25	42	34	28	25	33	28	24	32	28	24	31	27	24	24	24	24	23	
10	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	22	22	22	21	

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

	0°	45°	90°
0°	9672	9672	9672
5°	9712	9689	9732
10°	9697	9744	9845
15°	9629	9783	9982
20°	9506	9806	10130
25°	9308	9794	10222
30°	9006	9660	10146
35°	8611	9311	9764
40°	8083	8697	9030
45°	7383	7875	8030
50°	6518	6894	6905
55°	5629	5837	5877
60°	4806	4786	4998
65°	4227	3827	4314
70°	4090	3188	3915
75°	4418	3253	3944
80°	4886	3818	4276
85°	5248	4297	4526



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	277.8	4.0	2.9	0°	2918	2918	2918	2918	2918	
10°-20°	805.7	11.7	8.5	5°	2919	2912	2912	2918	2925	277
20°-30°	1229.2	17.9	13.0	15°	2806	2815	2851	2890	2909	791
30°-40°	1420.4	20.6	15.0	25°	2545	2583	2678	2763	2795	1170
40°-50°	1276.6	18.6	13.5	35°	2128	2181	2301	2382	2413	1327
50°-60°	905.3	13.2	9.6	45°	1575	1609	1680	1701	1713	1210
60°-70°	528.1	7.7	5.6	55°	974	998	1010	1022	1017	876
70°-80°	308.0	4.5	3.3	65°	539	530	488	523	550	546
80°-90°	128.2	1.9	1.4	75°	345	303	254	275	308	362
90°-100°	0.0	0.0	0.0	85°	138	137	113	113	119	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°	2312.7	33.6	24.5	165°	0	0	0	0	0	0
0°-40°	3733.1	54.3	39.5	175°	0	0	0	0	0	0
0°-60°	5915.0	86.0	62.6	180°	0	0	0	0	0	0
0°-90°	6879.3	100.0	72.8							
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°	6879.3	100.0	72.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2918	2918	2918	2918	2918
2.5°	2925	2917	2914	2917	2920
5°	2919	2912	2912	2918	2925
7.5°	2903	2900	2906	2917	2925
10°	2881	2881	2895	2914	2925
12.5°	2848	2852	2876	2905	2919
15°	2806	2815	2851	2890	2909
17.5°	2755	2770	2819	2870	2893
20°	2695	2717	2780	2844	2872
22.5°	2625	2655	2734	2810	2840
25°	2545	2583	2678	2763	2795
27.5°	2454	2499	2610	2701	2733
30°	2353	2405	2524	2618	2651
32.5°	2244	2298	2422	2512	2544
35°	2128	2181	2301	2382	2413
37.5°	2002	2050	2162	2232	2258
40°	1868	1911	2010	2065	2087
42.5°	1725	1763	1848	1887	1902
45°	1575	1609	1680	1701	1713
47.5°	1419	1455	1510	1518	1523
50°	1264	1299	1337	1344	1339
52.5°	1116	1145	1170	1178	1172
55°	974	998	1010	1022	1017
57.5°	843	861	860	877	879
60°	725	736	722	746	754
62.5°	623	625	597	627	645
65°	539	530	488	523	550
67.5°	473	454	398	435	470
70°	422	393	329	367	404
72.5°	383	345	283	316	351
75°	345	303	254	275	308
77.5°	304	262	230	237	269
80°	256	226	200	197	224
82.5°	201	187	161	156	174
85°	138	137	113	113	119
87.5°	71	78	62	63	62
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)