

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: 126P130

Luminaire Tested: **2GC-3BX40A**

Issue Date: 3/3/2020



**Test Information**

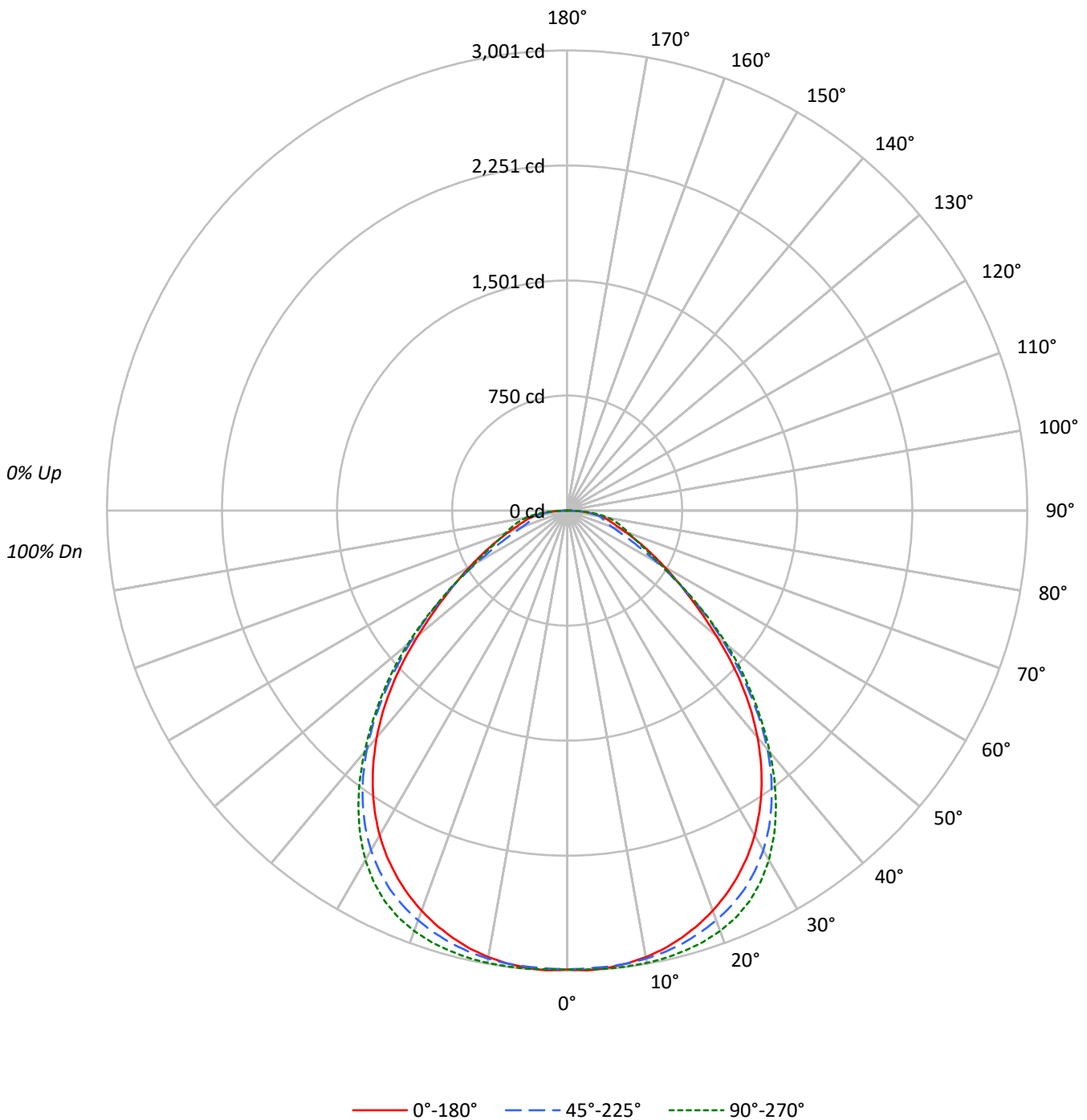
Test Method: LM-41-14  
Report Number: 126P130  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-3BX40A  
Description: 2 X 2 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: 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: 6926.2 lumens  
Efficiency: 73.3%  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.3  
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 107.3  
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				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	87	87	87	87	85	85	85	85	81	81	81		78	78	78		75	75	75	73
1	80	77	74	72	79	76	73	71	73	70	68		70	68	66		67	66	64	63
2	74	69	64	60	72	67	63	59	65	61	58		62	59	57		60	58	56	54
3	68	61	56	51	66	60	55	51	58	53	50		56	52	49		54	51	48	47
4	63	55	49	44	61	54	48	44	52	47	43		50	46	43		49	45	42	41
5	58	49	43	39	57	49	43	39	47	42	38		46	41	38		44	41	37	36
6	54	45	39	34	53	44	38	34	43	38	34		42	37	34		41	37	33	32
7	50	41	35	31	49	40	35	31	39	34	30		38	34	30		37	33	30	29
8	47	38	32	28	46	37	31	28	36	31	27		35	31	27		34	30	27	26
9	44	35	29	25	43	34	29	25	33	28	25		33	28	25		32	28	25	23
10	41	32	27	23	40	32	26	23	31	26	23		30	26	23		30	25	22	21

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

	0°	45°	90°
0°	9917	9917	9917
5°	9962	9935	9978
10°	9952	9989	10080
15°	9896	10023	10195
20°	9795	10028	10289
25°	9626	9981	10284
30°	9362	9790	10070
35°	8946	9408	9606
40°	8359	8792	8896
45°	7561	7908	8020
50°	6544	6869	7013
55°	5582	5733	5761
60°	4846	4495	4667
65°	4282	3529	4157
70°	3876	2995	4128
75°	3868	3189	4534
80°	4352	4085	5230
85°	4754	4640	5743



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	284.8	4.1	3.0	0°	2992	2992	2992	2992	2992	
10°-20°	825.2	11.9	8.7	5°	2994	2987	2986	2991	2999	285
20°-30°	1252.0	18.1	13.2	15°	2884	2892	2921	2953	2971	813
30°-40°	1436.1	20.7	15.2	25°	2632	2659	2729	2789	2812	1210
40°-50°	1285.1	18.6	13.6	35°	2211	2250	2325	2359	2374	1377
50°-60°	882.6	12.7	9.3	45°	1613	1651	1687	1683	1711	1239
60°-70°	507.3	7.3	5.4	55°	966	961	992	985	997	874
70°-80°	316.2	4.6	3.3	65°	546	486	450	525	530	547
80°-90°	136.9	2.0	1.4	75°	302	283	249	330	354	324
90°-100°	0.0	0.0	0.0	85°	125	121	122	148	151	123
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	9
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°	2362.0	34.1	25.0	165°	0	0	0	0	0	0
0°-40°	3798.1	54.8	40.2	175°	0	0	0	0	0	0
0°-60°	5965.8	86.1	63.1	180°	0	0	0	0	0	0
0°-90°	6926.2	100.0	73.3							
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°	6926.2	100.0	73.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2992	2992	2992	2992	2992
2.5°	3001	2993	2988	2989	2995
5°	2994	2987	2986	2991	2999
7.5°	2979	2976	2980	2989	2998
10°	2957	2957	2968	2984	2995
12.5°	2926	2928	2948	2972	2987
15°	2884	2892	2921	2953	2971
17.5°	2835	2847	2886	2928	2949
20°	2777	2792	2843	2894	2917
22.5°	2709	2730	2792	2849	2873
25°	2632	2659	2729	2789	2812
27.5°	2544	2576	2651	2709	2731
30°	2446	2481	2558	2610	2631
32.5°	2333	2373	2451	2493	2511
35°	2211	2250	2325	2359	2374
37.5°	2076	2118	2186	2209	2222
40°	1932	1973	2032	2046	2056
42.5°	1779	1818	1865	1869	1885
45°	1613	1651	1687	1683	1711
47.5°	1442	1479	1507	1499	1539
50°	1269	1306	1332	1322	1360
52.5°	1109	1130	1162	1151	1176
55°	966	961	992	985	997
57.5°	841	807	826	833	839
60°	731	676	678	707	704
62.5°	634	571	552	605	608
65°	546	486	450	525	530
67.5°	468	419	369	464	472
70°	400	365	309	414	426
72.5°	344	321	270	371	389
75°	302	283	249	330	354
77.5°	267	248	235	287	317
80°	228	209	214	244	274
82.5°	179	167	175	201	220
85°	125	121	122	148	151
87.5°	66	67	66	79	73
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)