

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: 214P108

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-3BX40A
Description: 2 X 2 Recessed Air Supply 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

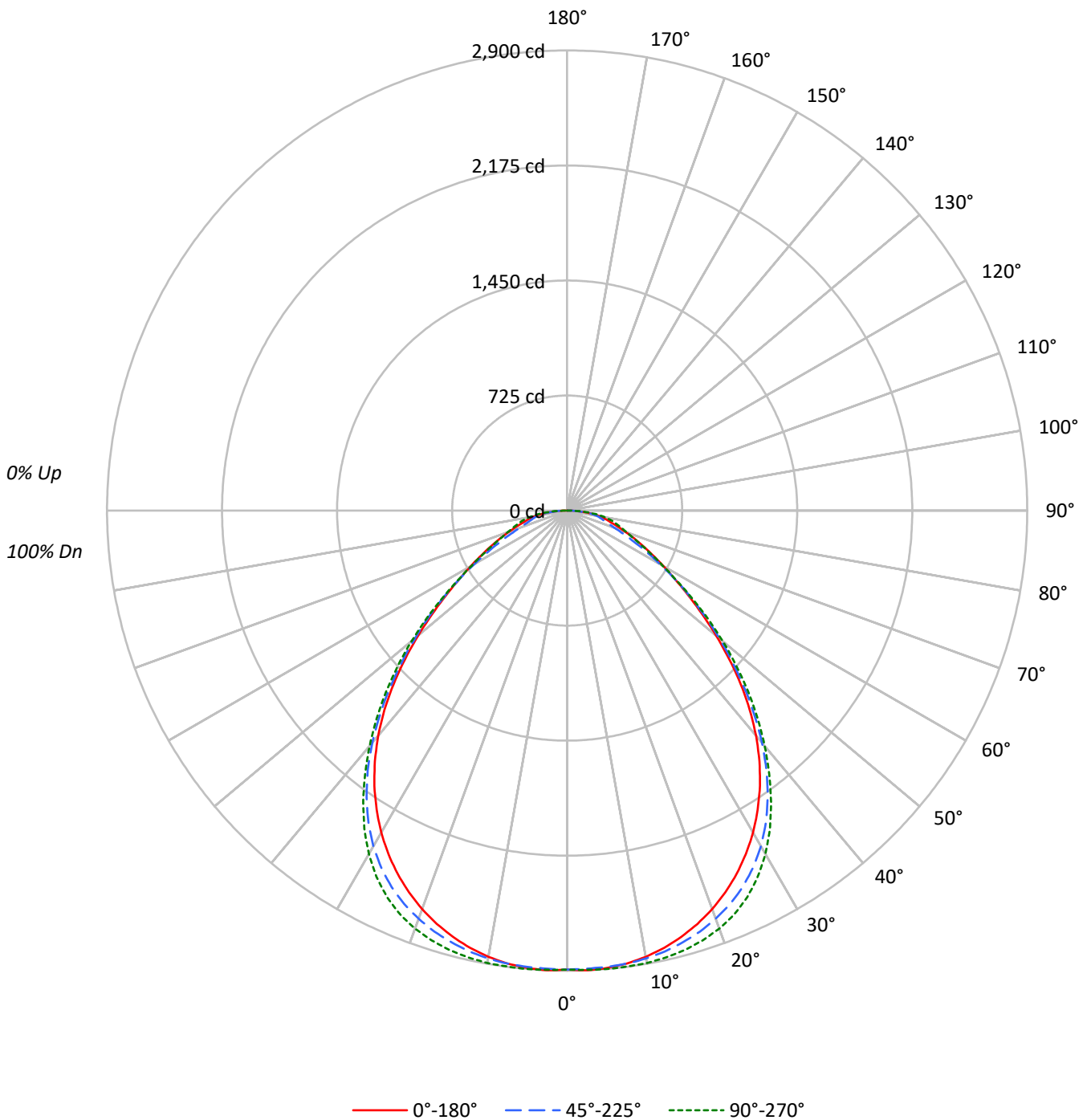
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 6617.4 lumens
Efficiency: 70.0%
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.28
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 107.2
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

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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	83	83	83	83	81	81	81	81	78	78	78	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	68	69	67	66	67	65	64	64	63	62	60
2	71	66	61	58	69	64	60	57	62	58	56	60	57	54	57	55	53	52
3	65	58	53	49	63	57	53	49	55	51	48	53	50	47	52	49	46	45
4	60	52	47	42	59	51	46	42	50	45	42	48	44	41	47	43	40	39
5	56	47	41	37	54	47	41	37	45	40	37	44	40	36	42	39	36	34
6	52	43	37	33	50	42	37	33	41	36	32	40	36	32	39	35	32	31
7	48	39	33	29	47	39	33	29	38	33	29	37	32	29	36	32	29	27
8	45	36	30	26	44	35	30	26	35	30	26	34	29	26	33	29	26	25
9	42	33	28	24	41	33	27	24	32	27	24	31	27	24	31	27	24	22
10	39	31	25	22	39	30	25	22	30	25	22	29	25	22	28	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10769	10769	10769
5°	10814	10787	10836
10°	10795	10833	10942
15°	10717	10856	11045
20°	10588	10842	11103
25°	10379	10753	11036
30°	10071	10496	10741
35°	9625	10015	10183
40°	8999	9286	9412
45°	8144	8312	8491
50°	7094	7244	7407
55°	6048	6152	6198
60°	5211	5033	5174
65°	4633	4087	4545
70°	4234	3461	4332
75°	4099	3423	4602
80°	4437	4051	5166
85°	4613	4484	5595



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	275.3	4.2	2.9	0°	2893	2893	2893	2893	2893	
10°-20°	795.8	12.0	8.4	5°	2894	2888	2887	2893	2900	275
20°-30°	1200.0	18.1	12.7	15°	2781	2790	2817	2851	2866	784
30°-40°	1364.5	20.6	14.4	25°	2527	2555	2618	2668	2687	1162
40°-50°	1215.2	18.4	12.9	35°	2118	2154	2204	2228	2241	1320
50°-60°	848.8	12.8	9.0	45°	1547	1569	1579	1589	1613	1189
60°-70°	500.7	7.6	5.3	55°	932	932	948	947	955	842
70°-80°	298.1	4.5	3.2	65°	526	489	464	507	516	527
80°-90°	118.9	1.8	1.3	75°	285	275	238	304	320	306
90°-100°	0.0	0.0	0.0	85°	108	105	105	126	131	109
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	2271.2	34.3	24.0	165°	0	0	0	0	0	0
0°-40°	3635.6	54.9	38.5	175°	0	0	0	0	0	0
0°-60°	5699.6	86.1	60.3	180°	0	0	0	0	0	0
0°-90°	6617.4	100.0	70.0							
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°	6617.4	100.0	70.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2893	2893	2893	2893	2893
2.5°	2900	2893	2889	2893	2897
5°	2894	2888	2887	2893	2900
7.5°	2879	2876	2880	2890	2898
10°	2856	2856	2866	2884	2895
12.5°	2823	2827	2846	2871	2884
15°	2781	2790	2817	2851	2866
17.5°	2731	2744	2782	2822	2840
20°	2673	2690	2737	2784	2803
22.5°	2605	2628	2683	2733	2754
25°	2527	2555	2618	2668	2687
27.5°	2440	2473	2537	2585	2602
30°	2343	2379	2442	2484	2499
32.5°	2235	2273	2331	2365	2378
35°	2118	2154	2204	2228	2241
37.5°	1990	2024	2064	2081	2092
40°	1852	1881	1911	1921	1937
42.5°	1704	1729	1747	1757	1777
45°	1547	1569	1579	1589	1613
47.5°	1385	1404	1412	1422	1445
50°	1225	1242	1251	1257	1279
52.5°	1072	1084	1097	1099	1115
55°	932	932	948	947	955
57.5°	807	792	806	806	814
60°	700	672	676	686	695
62.5°	607	571	563	587	597
65°	526	489	464	507	516
67.5°	454	420	383	444	450
70°	389	364	318	392	398
72.5°	331	317	271	347	356
75°	285	275	238	304	320
77.5°	247	234	214	261	284
80°	207	192	189	219	241
82.5°	161	149	153	176	190
85°	108	105	105	126	131
87.5°	53	55	52	62	63
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)