

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: 214P109

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-3BX40A125
Description: 2 X 2 Recessed Air Supply 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

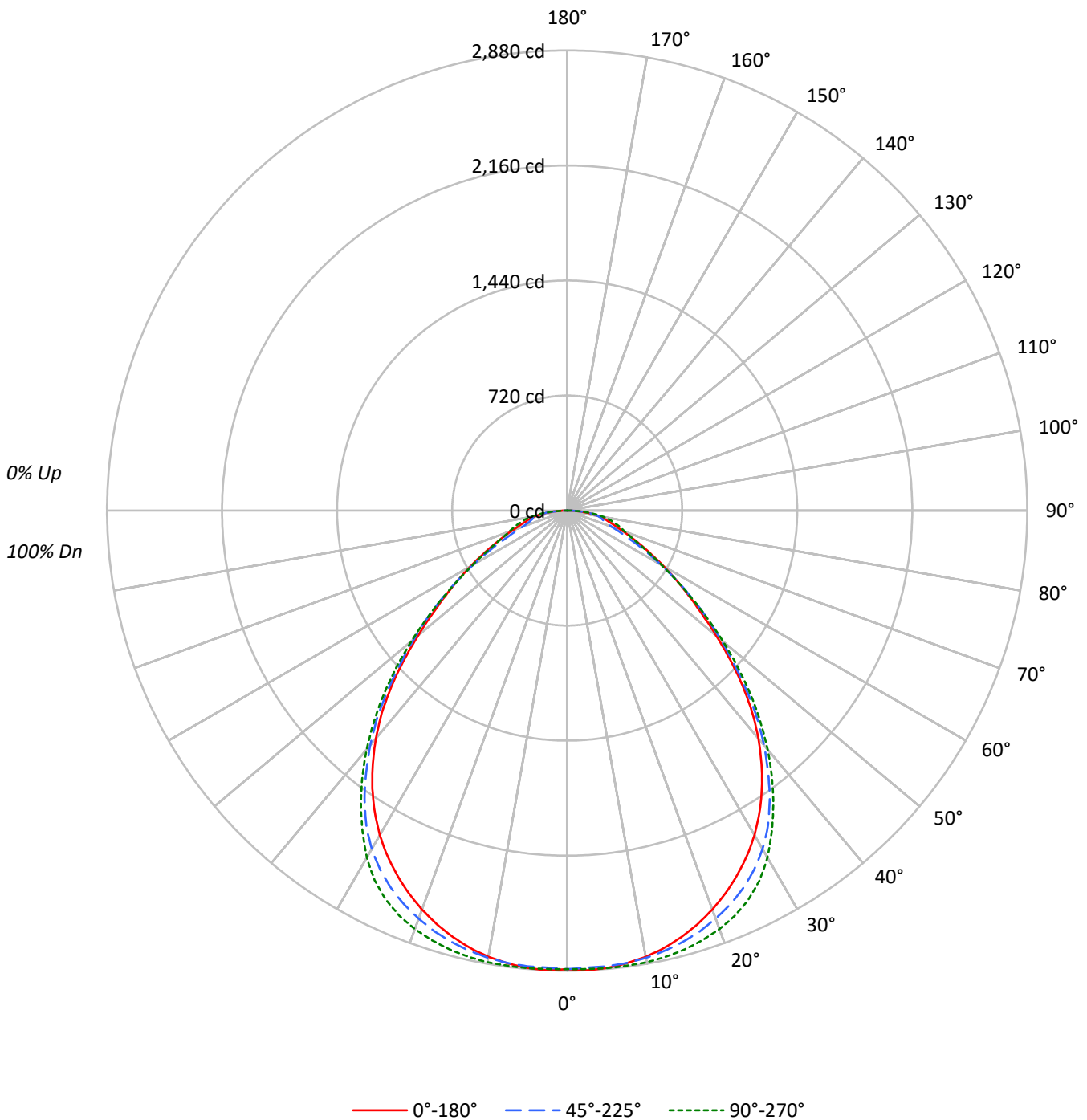
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 6584.8 lumens
Efficiency: 69.7%
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.29
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 106.7
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: 214P109
CATALOG NUMBER: 2GCASF-3BX40A125

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	77	77	77	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	67	69	67	65	66	65	63	64	63	61	60
2	70	65	61	57	69	64	60	57	62	58	55	59	57	54	57	55	53	52
3	65	58	53	49	63	57	52	49	55	51	48	53	50	47	52	49	46	45
4	60	52	47	42	58	51	46	42	50	45	41	48	44	41	47	43	40	39
5	55	47	41	37	54	46	41	37	45	40	36	44	39	36	42	39	36	34
6	51	43	37	33	50	42	37	33	41	36	32	40	35	32	39	35	32	30
7	48	39	33	29	47	38	33	29	37	33	29	36	32	29	36	32	29	27
8	45	36	30	26	44	35	30	26	34	30	26	34	29	26	33	29	26	25
9	42	33	28	24	41	33	27	24	32	27	24	31	27	24	30	26	23	22
10	39	31	25	22	38	30	25	22	30	25	22	29	25	22	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10683	10683	10683
5°	10735	10698	10743
10°	10719	10746	10848
15°	10648	10771	10956
20°	10525	10767	11040
25°	10342	10707	11032
30°	10079	10513	10780
35°	9656	10047	10224
40°	9048	9315	9485
45°	8181	8344	8533
50°	7048	7256	7372
55°	6035	6172	6146
60°	5196	5048	5100
65°	4466	3964	4369
70°	3972	3232	4179
75°	3898	3351	4502
80°	4244	4180	4973
85°	4399	4741	5211



TEST NUMBER: 214P109

CATALOG NUMBER: 2GCASF-3BX40A125

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	273.0	4.1	2.9	0°	2870	2870	2870	2870	2870	
10°-20°	789.8	12.0	8.4	5°	2873	2863	2863	2869	2875	273
20°-30°	1196.8	18.2	12.7	15°	2763	2767	2795	2828	2843	779
30°-40°	1367.5	20.8	14.5	25°	2518	2542	2607	2664	2686	1159
40°-50°	1217.6	18.5	12.9	35°	2125	2161	2211	2226	2250	1324
50°-60°	855.2	13.0	9.0	45°	1554	1561	1585	1599	1621	1193
60°-70°	488.5	7.4	5.2	55°	930	952	951	964	947	839
70°-80°	279.8	4.2	3.0	65°	507	482	450	491	496	510
80°-90°	116.5	1.8	1.2	75°	271	250	233	273	313	290
90°-100°	0.0	0.0	0.0	85°	103	103	111	125	122	103
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	6
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°	2259.6	34.3	23.9	165°	0	0	0	0	0	0
0°-40°	3627.1	55.1	38.4	175°	0	0	0	0	0	0
0°-60°	5699.9	86.6	60.3	180°	0	0	0	0	0	0
0°-90°	6584.8	100.0	69.7							
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°	6584.8	100.0	69.7							



TEST NUMBER: 214P109

CATALOG NUMBER: 2GCASF-3BX40A125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2870	2870	2870	2870	2870
2.5°	2880	2869	2864	2868	2872
5°	2873	2863	2863	2869	2875
7.5°	2858	2852	2856	2866	2873
10°	2836	2833	2843	2860	2870
12.5°	2804	2804	2822	2847	2860
15°	2763	2767	2795	2828	2843
17.5°	2714	2722	2761	2801	2819
20°	2657	2670	2718	2766	2787
22.5°	2592	2610	2668	2722	2744
25°	2518	2542	2607	2664	2686
27.5°	2437	2465	2534	2589	2609
30°	2345	2377	2446	2491	2508
32.5°	2241	2276	2340	2368	2384
35°	2125	2161	2211	2226	2250
37.5°	1999	2029	2067	2079	2106
40°	1862	1882	1917	1925	1952
42.5°	1716	1725	1759	1765	1789
45°	1554	1561	1585	1599	1621
47.5°	1386	1395	1413	1428	1446
50°	1217	1239	1253	1262	1273
52.5°	1063	1093	1100	1108	1104
55°	930	952	951	964	947
57.5°	809	818	810	830	806
60°	698	694	678	700	685
62.5°	596	581	557	586	582
65°	507	482	450	491	496
67.5°	430	399	363	416	431
70°	365	335	297	358	384
72.5°	312	287	254	312	349
75°	271	250	233	273	313
77.5°	236	215	219	236	275
80°	198	183	195	209	232
82.5°	153	146	157	175	182
85°	103	103	111	125	122
87.5°	47	50	51	62	57
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: 214P109

CATALOG NUMBER: 2GCASF-3BX40A125

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)