

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: 182P104

Luminaire Tested: **2GCASF-432A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 182P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-432A
Description: 2 X 4 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Four - FO32/735 - 2800 Lumens ea. 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.7

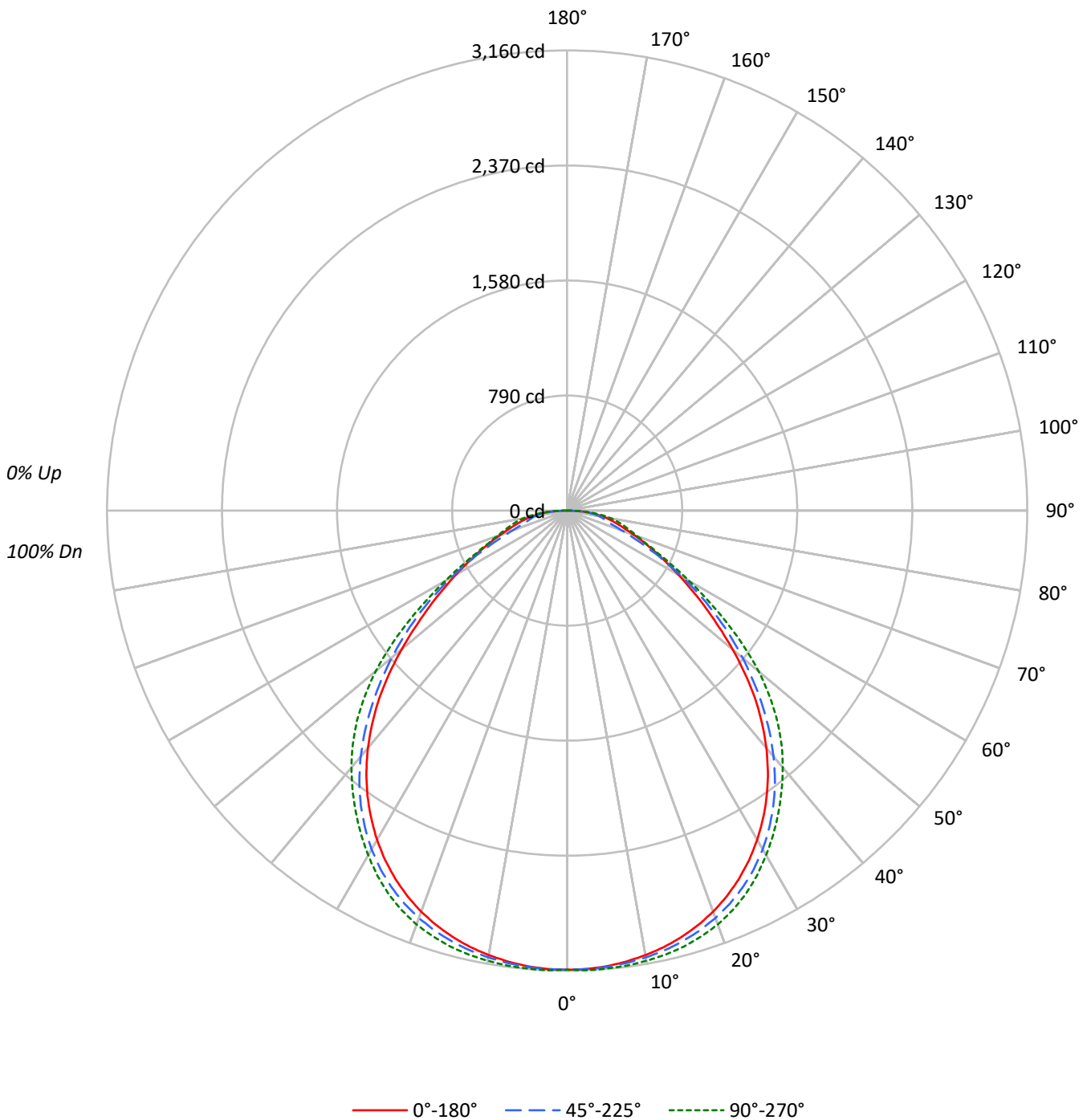
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7765.8 lumens
Efficiency: 69.3%
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.32
Luminous Opening: Rectangular (W 1.68' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 110.8
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	77	77	77		74	74	74		71	71	71	69
1	76	73	70	68	74	71	69	67	68	66	64		66	64	62		63	62	61	59
2	70	64	60	56	68	63	59	56	61	57	54		58	56	53		56	54	52	50
3	64	57	52	48	62	56	51	47	54	50	46		52	49	46		50	47	45	43
4	59	51	45	41	57	50	45	41	48	44	40		47	43	40		45	42	39	38
5	54	46	40	36	53	45	40	35	44	39	35		42	38	35		41	37	34	33
6	50	42	36	31	49	41	35	31	40	35	31		39	34	31		37	34	30	29
7	47	38	32	28	46	37	32	28	36	31	28		35	31	27		34	30	27	26
8	44	35	29	25	43	34	29	25	33	28	25		32	28	25		32	28	25	23
9	41	32	26	23	40	31	26	23	31	26	22		30	25	22		29	25	22	21
10	38	29	24	21	37	29	24	21	28	24	20		28	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5457	5457	5457
5°	5457	5464	5485
10°	5448	5476	5517
15°	5433	5487	5553
20°	5398	5483	5570
25°	5330	5450	5546
30°	5218	5368	5462
35°	5050	5219	5346
40°	4810	4982	5206
45°	4467	4646	4996
50°	3996	4230	4623
55°	3494	3757	4028
60°	3060	3164	3347
65°	2707	2531	2797
70°	2469	2019	2576
75°	2387	1892	2702
80°	2591	2253	3040
85°	2800	2621	3376



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	299.2	3.9	2.7	0°	3153	3153	3153	3153	3153	
10°-20°	864.0	11.1	7.7	5°	3141	3134	3145	3150	3157	298
20°-30°	1310.4	16.9	11.7	15°	3032	3034	3062	3083	3099	855
30°-40°	1536.5	19.8	13.7	25°	2791	2806	2854	2885	2904	1284
40°-50°	1468.4	18.9	13.1	35°	2390	2415	2470	2506	2530	1491
50°-60°	1109.1	14.3	9.9	45°	1825	1839	1898	1975	2041	1400
60°-70°	658.3	8.5	5.9	55°	1158	1168	1245	1298	1335	1042
70°-80°	369.5	4.8	3.3	65°	661	627	618	688	683	663
80°-90°	150.4	1.9	1.3	75°	357	336	283	378	404	384
90°-100°	0.0	0.0	0.0	85°	141	131	132	161	170	139
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°	2473.6	31.9	22.1	165°	0	0	0	0	0	0
0°-40°	4010.1	51.6	35.8	175°	0	0	0	0	0	0
0°-60°	6587.6	84.8	58.8	180°	0	0	0	0	0	0
0°-90°	7765.8	100.0	69.3							
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°	7765.8	100.0	69.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3153	3153	3153	3153	3153
2.5°	3151	3143	3151	3153	3160
5°	3141	3134	3145	3150	3157
7.5°	3123	3119	3133	3142	3151
10°	3100	3097	3116	3129	3139
12.5°	3070	3069	3093	3110	3123
15°	3032	3034	3062	3083	3099
17.5°	2986	2990	3024	3050	3066
20°	2931	2938	2977	3006	3024
22.5°	2866	2877	2921	2952	2970
25°	2791	2806	2854	2885	2904
27.5°	2706	2726	2776	2805	2824
30°	2611	2633	2686	2715	2733
32.5°	2505	2529	2583	2614	2635
35°	2390	2415	2470	2506	2530
37.5°	2265	2288	2344	2389	2420
40°	2129	2150	2205	2262	2304
42.5°	1981	2000	2057	2125	2180
45°	1825	1839	1898	1975	2041
47.5°	1656	1670	1735	1815	1885
50°	1484	1498	1571	1650	1717
52.5°	1314	1330	1409	1476	1529
55°	1158	1168	1245	1298	1335
57.5°	1014	1012	1079	1124	1144
60°	884	868	914	959	967
62.5°	765	738	758	812	811
65°	661	627	618	688	683
67.5°	569	533	497	587	584
70°	488	456	399	506	509
72.5°	416	392	328	438	452
75°	357	336	283	378	404
77.5°	308	284	254	324	358
80°	260	232	226	272	305
82.5°	204	181	186	220	243
85°	141	131	132	161	170
87.5°	74	73	70	88	91
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)