

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: 108P148

Luminaire Tested: **2GC-432PB1S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P148
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-432PB1S-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a plastic parabolic louver with cell dimensions of 5/8" x 5/8" x 7/16".
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 87.9

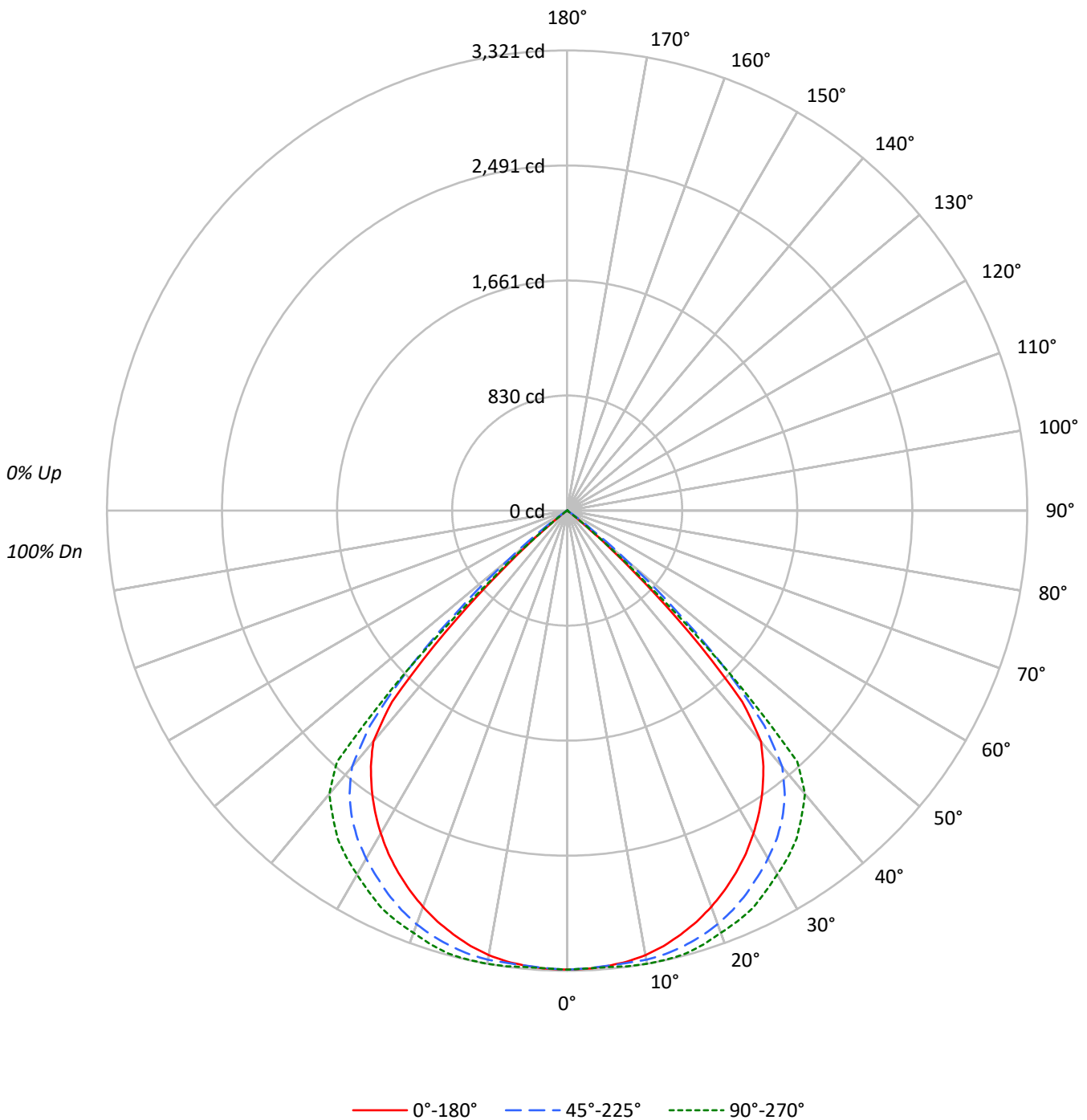
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 5522.8 lumens
Efficiency: 49.3%
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.3
Luminous Opening: Rectangular (W 1.78' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 111.3
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	59	59	59	59	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	56	54	53	51	54	53	52	51	51	50	49	49	48	48	47	47	46	45
2	52	50	47	45	51	49	47	45	47	45	44	46	44	43	44	43	42	41
3	49	45	43	40	48	45	42	40	43	41	39	42	40	39	41	39	38	37
4	46	42	39	36	45	41	38	36	40	37	35	39	37	35	38	36	35	34
5	43	38	35	32	42	38	35	32	37	34	32	36	34	32	35	33	31	31
6	40	35	32	29	40	35	32	29	34	31	29	33	31	29	33	30	29	28
7	38	33	29	27	37	32	29	27	32	29	26	31	28	26	30	28	26	25
8	36	30	27	24	35	30	27	24	29	26	24	29	26	24	28	26	24	23
9	33	28	25	22	33	28	24	22	27	24	22	27	24	22	26	24	22	21
10	31	26	23	20	31	26	23	20	25	22	20	25	22	20	24	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5251	5251	5251
5°	5250	5247	5262
10°	5244	5297	5345
15°	5198	5338	5431
20°	5133	5359	5470
25°	5042	5343	5539
30°	4923	5308	5551
35°	4758	5240	5588
40°	4502	4997	5524
45°	2793	3627	3665
50°	567	1408	656
55°	33	155	25
60°	22	19	19
65°	19	15	15
70°	19	14	14
75°	12	12	12
80°	9	9	9
85°	18	18	18



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	314.7	5.7	2.8	0°	3313	3313	3313	3313	3313	
10°-20°	915.5	16.6	8.2	5°	3300	3293	3298	3307	3307	314
20°-30°	1400.9	25.4	12.5	15°	3168	3181	3253	3302	3310	893
30°-40°	1678.1	30.4	15.0	25°	2883	2943	3055	3147	3167	1327
40°-50°	1130.5	20.5	10.1	35°	2459	2568	2708	2838	2888	1533
50°-60°	75.1	1.4	0.7	45°	1246	1432	1618	1725	1635	938
60°-70°	4.7	0.1	0.0	55°	12	20	56	14	9	43
70°-80°	2.3	0.0	0.0	65°	5	5	4	5	4	5
80°-90°	1.0	0.0	0.0	75°	2	2	2	2	2	3
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	2631.2	47.6	23.5	165°	0	0	0	0	0	0
0°-40°	4309.2	78.0	38.5	175°	0	0	0	0	0	0
0°-60°	5514.8	99.9	49.2	180°	0	0	0	0	0	0
0°-90°	5522.8	100.0	49.3							
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°	5522.8	100.0	49.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3313	3313	3313	3313	3313
2.5°	3310	3306	3306	3310	3307
5°	3300	3293	3298	3307	3307
7.5°	3284	3277	3293	3314	3317
10°	3258	3253	3291	3317	3321
12.5°	3219	3221	3279	3312	3319
15°	3168	3181	3253	3302	3310
17.5°	3110	3135	3220	3278	3281
20°	3043	3081	3177	3238	3243
22.5°	2967	3017	3121	3192	3209
25°	2883	2943	3055	3147	3167
27.5°	2792	2863	2978	3088	3100
30°	2690	2775	2900	3004	3033
32.5°	2580	2677	2813	2924	2967
35°	2459	2568	2708	2838	2888
37.5°	2327	2441	2580	2729	2780
40°	2176	2263	2415	2567	2670
42.5°	1871	1943	2106	2246	2458
45°	1246	1432	1618	1725	1635
47.5°	643	832	1056	957	774
50°	230	356	571	372	266
52.5°	60	100	222	92	44
55°	12	20	56	14	9
57.5°	8	8	13	7	7
60°	7	6	6	6	6
62.5°	6	6	5	6	5
65°	5	5	4	5	4
67.5°	5	4	4	4	4
70°	4	4	3	3	3
72.5°	3	3	2	3	2
75°	2	2	2	2	2
77.5°	2	2	2	2	2
80°	1	1	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	1	1	1	1	1
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)