

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: 108P145

Luminaire Tested: **2GC-332PB1S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P145
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-332PB1S-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: Three - F032T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 88.5

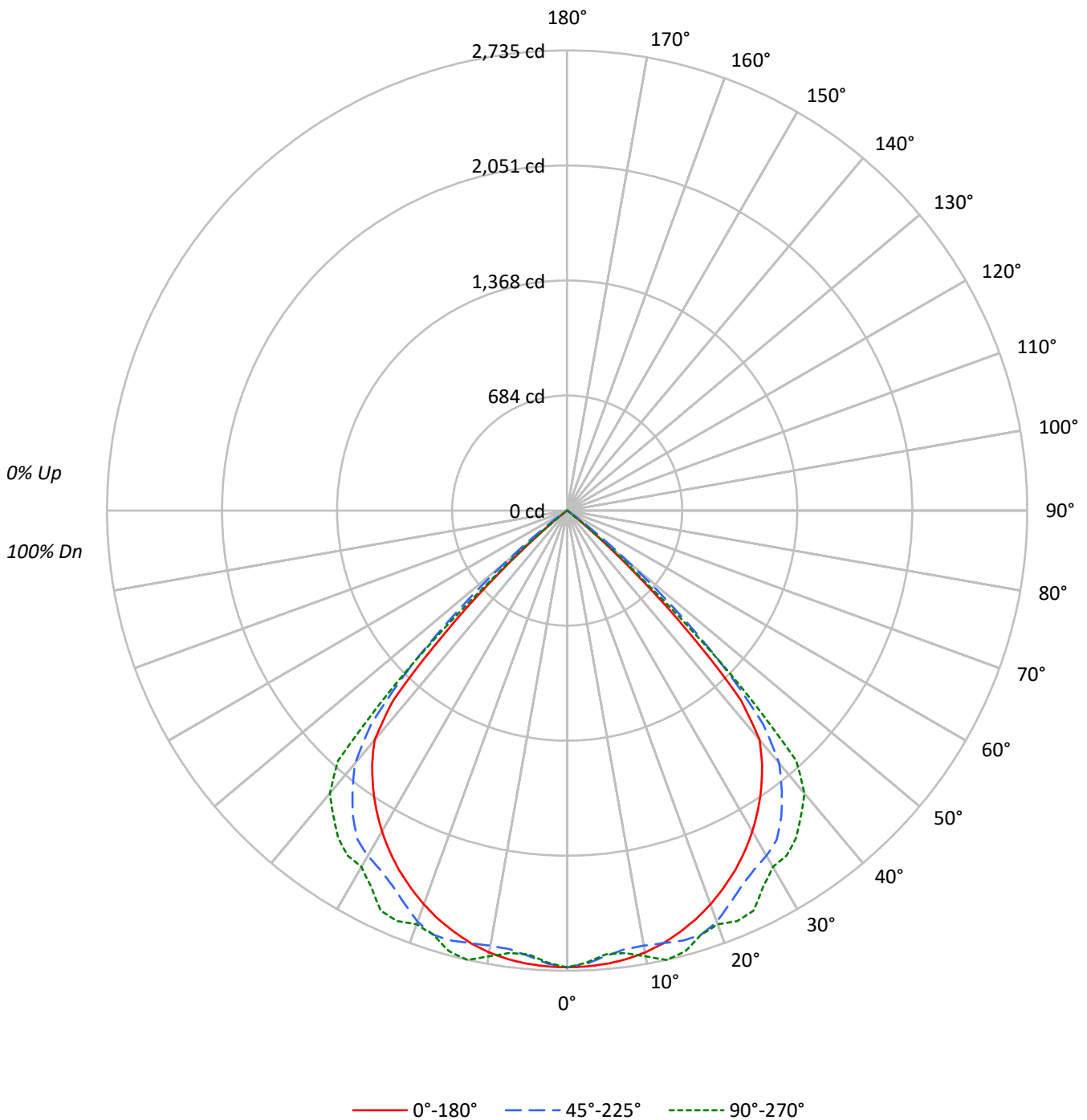
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 4499.5 lumens
Efficiency: 53.6%
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.36 / 1.3
Luminous Opening: Rectangular (W 1.78' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 86.3
Input Voltage (V): NR
Input Current (A_{in}): 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	64	64	64	64	62	62	62	62	60	60	60	57	57	57	55	55	55	54
1	60	59	57	56	59	58	56	55	55	54	53	53	52	52	51	51	50	49
2	57	54	51	49	56	53	51	49	51	49	48	49	48	47	48	47	46	45
3	53	49	46	44	52	49	46	43	47	45	43	46	44	42	45	43	41	40
4	50	45	42	39	49	45	41	39	43	41	38	42	40	38	41	39	38	37
5	47	42	38	35	46	41	38	35	40	37	35	39	36	34	38	36	34	33
6	44	38	35	32	43	38	34	32	37	34	32	36	33	31	35	33	31	30
7	41	35	32	29	40	35	31	29	34	31	29	33	31	28	33	30	28	27
8	39	33	29	26	38	32	29	26	32	28	26	31	28	26	31	28	26	25
9	36	30	27	24	36	30	26	24	29	26	24	29	26	24	28	26	24	23
10	34	28	25	22	34	28	24	22	27	24	22	27	24	22	27	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4303	4303	4303
5°	4302	4226	4211
10°	4292	4226	4331
15°	4255	4343	4450
20°	4202	4385	4412
25°	4127	4299	4587
30°	4028	4336	4477
35°	3893	4295	4592
40°	3683	4057	4539
45°	2284	2986	3082
50°	468	1159	560
55°	22	130	17
60°	13	10	10
65°	11	8	11
70°	14	9	9
75°	12	6	6
80°	9	9	9
85°	0	18	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	253.9	5.6	3.0	0°	2715	2715	2715	2715	2715	
10°-20°	742.0	16.5	8.8	5°	2704	2678	2656	2648	2647	257
20°-30°	1140.0	25.3	13.6	15°	2593	2535	2647	2719	2712	731
30°-40°	1370.3	30.5	16.3	25°	2360	2386	2458	2595	2623	1086
40°-50°	927.3	20.6	11.0	35°	2012	2090	2220	2327	2373	1254
50°-60°	61.5	1.4	0.7	45°	1019	1166	1332	1415	1375	768
60°-70°	2.7	0.1	0.0	55°	8	15	47	11	6	34
70°-80°	1.4	0.0	0.0	65°	3	3	2	3	3	3
80°-90°	0.4	0.0	0.0	75°	2	1	1	1	1	2
90°-100°	0.0	0.0	0.0	85°	0	0	1	0	0	0
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°	2135.9	47.5	25.4	165°	0	0	0	0	0	0
0°-40°	3506.2	77.9	41.7	175°	0	0	0	0	0	0
0°-60°	4495.0	99.9	53.5	180°	0	0	0	0	0	0
0°-90°	4499.5	100.0	53.6							
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°	4499.5	100.0	53.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2715	2715	2715	2715	2715
2.5°	2712	2701	2695	2691	2688
5°	2704	2678	2656	2648	2647
7.5°	2690	2647	2629	2646	2652
10°	2667	2610	2626	2672	2691
12.5°	2635	2572	2633	2715	2735
15°	2593	2535	2647	2719	2712
17.5°	2546	2501	2644	2659	2644
20°	2491	2467	2600	2600	2616
22.5°	2428	2429	2527	2587	2641
25°	2360	2386	2458	2595	2623
27.5°	2285	2334	2406	2542	2522
30°	2201	2267	2369	2434	2446
32.5°	2111	2185	2319	2362	2430
35°	2012	2090	2220	2327	2373
37.5°	1904	1980	2095	2245	2283
40°	1780	1831	1961	2102	2194
42.5°	1529	1576	1725	1842	2015
45°	1019	1166	1332	1415	1375
47.5°	529	682	871	805	639
50°	190	294	470	307	227
52.5°	47	83	186	77	39
55°	8	15	47	11	6
57.5°	5	4	9	4	4
60°	4	4	3	4	3
62.5°	4	3	3	3	3
65°	3	3	2	3	3
67.5°	3	2	2	2	2
70°	3	2	2	2	2
72.5°	2	2	1	2	1
75°	2	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	0	1	1	1	0
85°	0	0	1	0	0
87.5°	0	0	0	0	0
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)