

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: 193P101

Luminaire Tested: **PGX2048-332S36I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 193P101  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX2048-332S36I-PAF  
Description: 20 X 48 Recessed Convertible Body Troffer with a  
4" deep 18 cell semi-specular parabolic louver.  
Light Source: Three - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

**Summary**

Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 5736.9 lumens  
Efficiency: 67.1%  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.32  
Luminous Opening: Rectangular (W 1.4' x L: 3.76' x H: 0')  
CIE Type: Direct

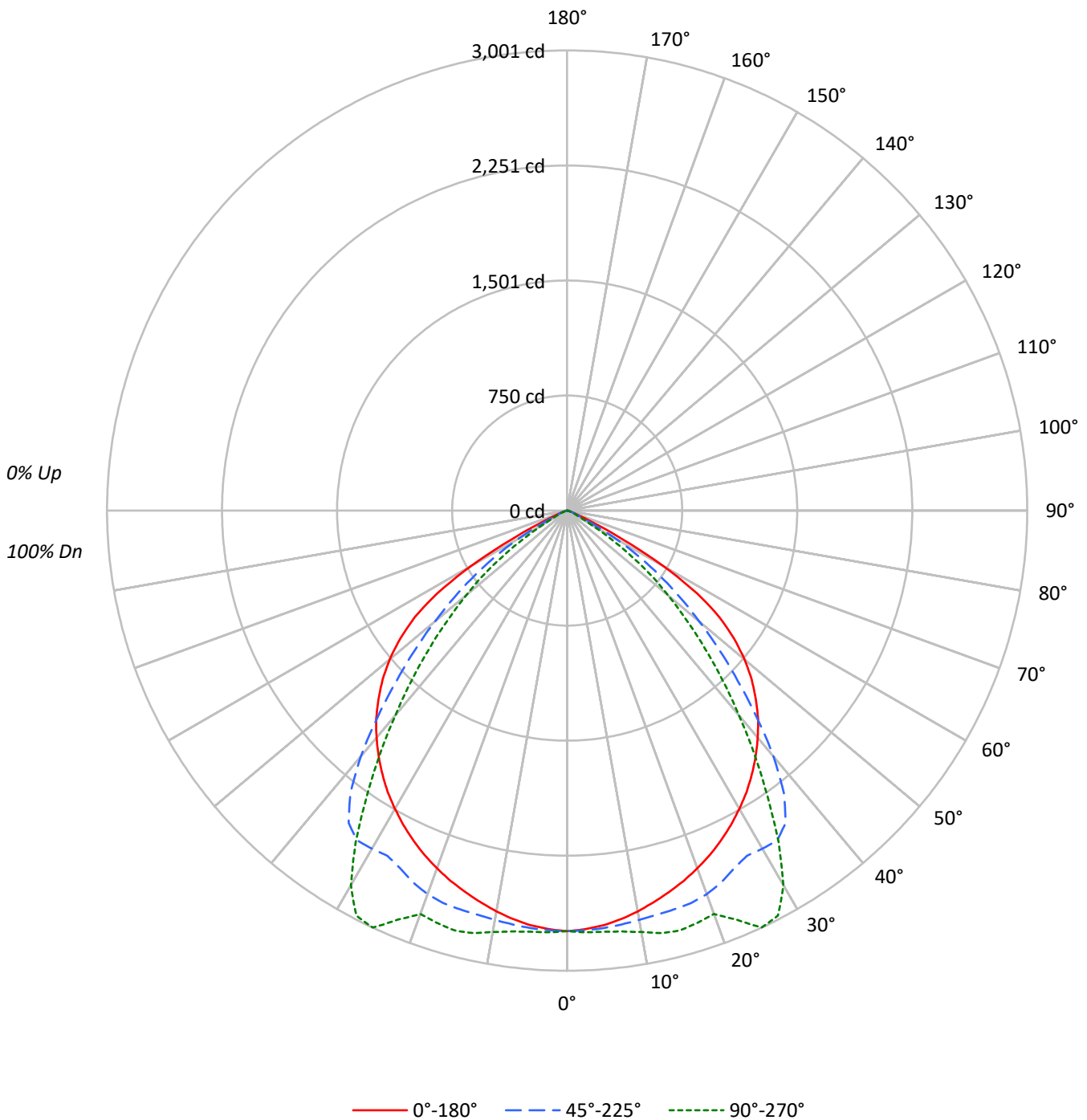
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	80	80	80	80	78	78	78	78	75	75	75		71	71	71		68	68	68	67
1	75	73	71	69	73	71	69	68	68	67	65		66	65	64		64	63	62	60
2	70	66	62	59	68	64	61	58	62	59	57		60	58	56		58	56	55	53
3	65	59	55	51	63	58	54	51	56	53	50		55	52	49		53	51	48	47
4	60	54	49	45	59	53	48	45	51	47	44		50	46	44		48	45	43	42
5	56	49	43	40	55	48	43	40	47	42	39		45	42	39		44	41	38	37
6	52	44	39	35	51	44	39	35	43	38	35		41	38	35		40	37	34	33
7	48	40	35	32	47	40	35	32	39	35	31		38	34	31		37	34	31	30
8	45	37	32	29	44	37	32	28	36	31	28		35	31	28		34	31	28	27
9	42	34	29	26	41	34	29	26	33	29	26		32	28	26		32	28	26	24
10	40	32	27	24	39	31	27	24	31	26	24		30	26	23		30	26	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5612	5612	5612
5°	5576	5613	5662
10°	5514	5632	5798
15°	5452	5704	6005
20°	5404	5796	6094
25°	5359	5813	6775
30°	5306	6015	6662
35°	5245	6207	5692
40°	5165	5595	4655
45°	5037	4566	3675
50°	4809	3584	2725
55°	4327	2608	1730
60°	2963	1461	659
65°	905	455	290
70°	299	215	167
75°	158	134	111
80°	94	82	71
85°	47	47	23



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	260.4	4.5	3.0	0°	2743	2743	2743	2743	2743	
10°-20°	761.8	13.3	8.9	5°	2715	2719	2733	2747	2757	257
20°-30°	1211.4	21.1	14.2	15°	2574	2599	2693	2796	2835	727
30°-40°	1427.2	24.9	16.7	25°	2374	2445	2575	2831	3001	1094
40°-50°	1203.0	21.0	14.1	35°	2100	2218	2485	2328	2279	1313
50°-60°	708.4	12.3	8.3	45°	1741	1846	1578	1312	1270	1339
60°-70°	142.4	2.5	1.7	55°	1213	1102	731	538	485	1050
70°-80°	19.7	0.3	0.2	65°	187	134	94	69	60	262
80°-90°	2.6	0.0	0.0	75°	20	19	17	15	14	24
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	1	3
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°	2233.6	38.9	26.1	165°	0	0	0	0	0	0
0°-40°	3660.8	63.8	42.8	175°	0	0	0	0	0	0
0°-60°	5572.2	97.1	65.2	180°	0	0	0	0	0	0
0°-90°	5736.9	100.0	67.1							
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°	5736.9	100.0	67.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2743	2743	2743	2743	2743
2.5°	2732	2732	2739	2746	2753
5°	2715	2719	2733	2747	2757
7.5°	2688	2697	2722	2753	2768
10°	2654	2667	2711	2765	2791
12.5°	2615	2634	2699	2785	2822
15°	2574	2599	2693	2796	2835
17.5°	2531	2563	2684	2783	2820
20°	2482	2524	2662	2746	2799
22.5°	2431	2485	2625	2743	2888
25°	2374	2445	2575	2831	3001
27.5°	2312	2400	2538	2878	2978
30°	2246	2348	2546	2788	2820
32.5°	2177	2288	2550	2596	2567
35°	2100	2218	2485	2328	2279
37.5°	2020	2138	2322	2050	2007
40°	1934	2050	2095	1792	1743
42.5°	1843	1953	1832	1542	1499
45°	1741	1846	1578	1312	1270
47.5°	1632	1725	1347	1094	1053
50°	1511	1563	1126	890	856
52.5°	1372	1352	924	710	682
55°	1213	1102	731	538	485
57.5°	1007	815	545	360	309
60°	724	517	357	214	161
62.5°	410	275	192	115	91
65°	187	134	94	69	60
67.5°	87	72	55	46	40
70°	50	44	36	31	28
72.5°	31	28	24	21	19
75°	20	19	17	15	14
77.5°	12	12	11	10	9
80°	8	8	7	7	6
82.5°	5	5	4	4	3
85°	2	2	2	2	1
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)