

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: 189P104

Luminaire Tested: **PGX-132S16I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 189P104  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX-132S16I-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with a  
4" deep 6 cell semi-specular low iridescent  
parabolic louver  
Light Source: One FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad B232I120RH Electronic - L.O.B.F. = 101.26

**Summary**

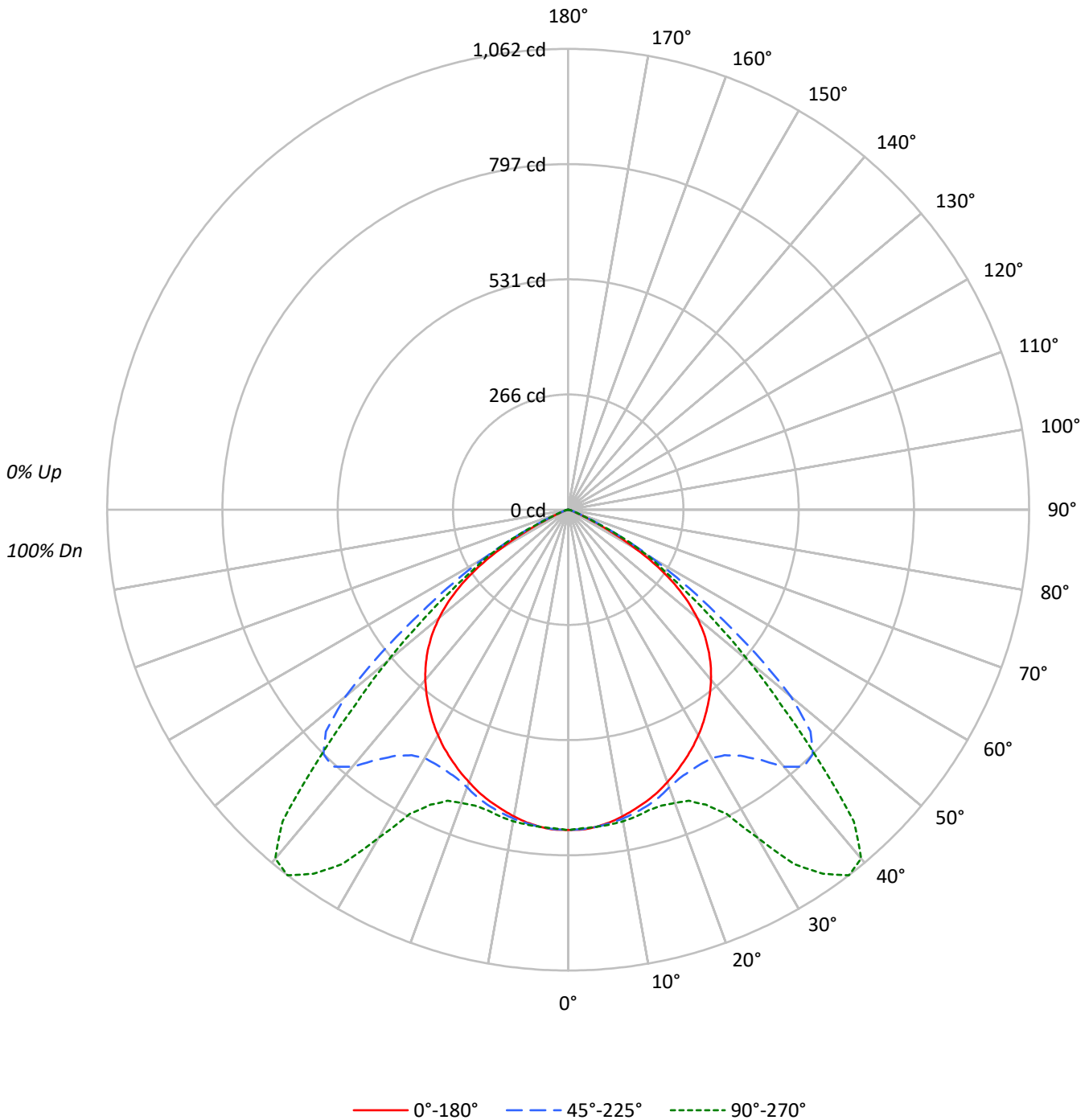
Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 2026.7 lumens  
Efficiency: 71.1%  
Efficacy: 57.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.86 / 1.66  
Luminous Opening: Rectangular (W 0.73' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.3  
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	79	76	74	72	77	75	73	71	72	70	68	69	68	66	67	65	64	63
2	73	68	64	61	71	67	63	60	64	61	59	62	60	57	60	58	56	55
3	67	61	56	52	65	60	55	51	58	54	50	56	52	49	54	51	49	47
4	62	54	49	44	60	53	48	44	52	47	43	50	46	43	48	45	42	41
5	57	49	43	38	55	48	42	38	46	42	38	45	41	37	44	40	37	36
6	53	44	38	34	51	43	37	33	42	37	33	41	36	33	40	36	33	31
7	49	40	34	30	47	39	33	29	38	33	29	37	32	29	36	32	29	28
8	45	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	24
9	42	33	27	24	41	33	27	23	32	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	29	24	21	28	24	21	20

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

	0°	45°	90°
0°	2881	2881	2881
5°	2876	2876	2876
10°	2846	2866	2890
15°	2813	2853	2898
20°	2775	2829	2987
25°	2739	2860	3230
30°	2704	2979	3935
35°	2659	3298	4880
40°	2609	3939	5351
45°	2523	4400	4483
50°	2356	4063	3304
55°	2035	2818	2294
60°	1405	1749	1647
65°	554	739	647
70°	171	240	240
75°	90	136	136
80°	67	90	90
85°	45	45	45



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	69.8	3.4	2.4	0°	738	738	738	738	738	
10°-20°	199.6	9.8	7.0	5°	734	734	734	736	734	70
20°-30°	316.7	15.6	11.1	15°	696	697	706	714	717	196
30°-40°	467.1	23.0	16.4	25°	636	643	664	716	750	293
40°-50°	528.0	26.1	18.5	35°	558	574	692	932	1024	349
50°-60°	343.5	16.9	12.1	45°	457	526	797	845	812	351
60°-70°	90.8	4.5	3.2	55°	299	460	414	349	337	262
70°-80°	10.1	0.5	0.4	65°	60	71	80	81	70	73
80°-90°	1.3	0.1	0.0	75°	6	8	9	9	9	8
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°	586.0	28.9	20.6	165°	0	0	0	0	0	0
0°-40°	1053.1	52.0	37.0	175°	0	0	0	0	0	0
0°-60°	1924.6	95.0	67.5	180°	0	0	0	0	0	0
0°-90°	2026.7	100.0	71.1							
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°	2026.7	100.0	71.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	738	738	738	738	738
2.5°	738	737	737	738	735
5°	734	734	734	736	734
7.5°	727	728	729	733	732
10°	718	719	723	729	729
12.5°	707	709	715	723	724
15°	696	697	706	714	717
17.5°	683	686	695	705	715
20°	668	673	681	705	719
22.5°	653	659	670	707	726
25°	636	643	664	716	750
27.5°	619	627	661	740	790
30°	600	610	661	781	873
32.5°	580	592	671	860	968
35°	558	574	692	932	1024
37.5°	536	558	726	968	1062
40°	512	545	773	983	1050
42.5°	486	534	803	945	974
45°	457	526	797	845	812
47.5°	425	519	757	682	665
50°	388	513	669	553	544
52.5°	347	499	544	445	433
55°	299	460	414	349	337
57.5°	244	382	312	267	262
60°	180	263	224	203	211
62.5°	113	142	145	145	147
65°	60	71	80	81	70
67.5°	27	35	38	39	35
70°	15	19	21	22	21
72.5°	10	12	13	14	13
75°	6	8	9	9	9
77.5°	4	5	6	6	6
80°	3	3	4	4	4
82.5°	1	2	2	2	2
85°	1	1	1	1	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)