

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: 189P100

Luminaire Tested: **PGX-132S18I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 189P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S18I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a
4" deep 8 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

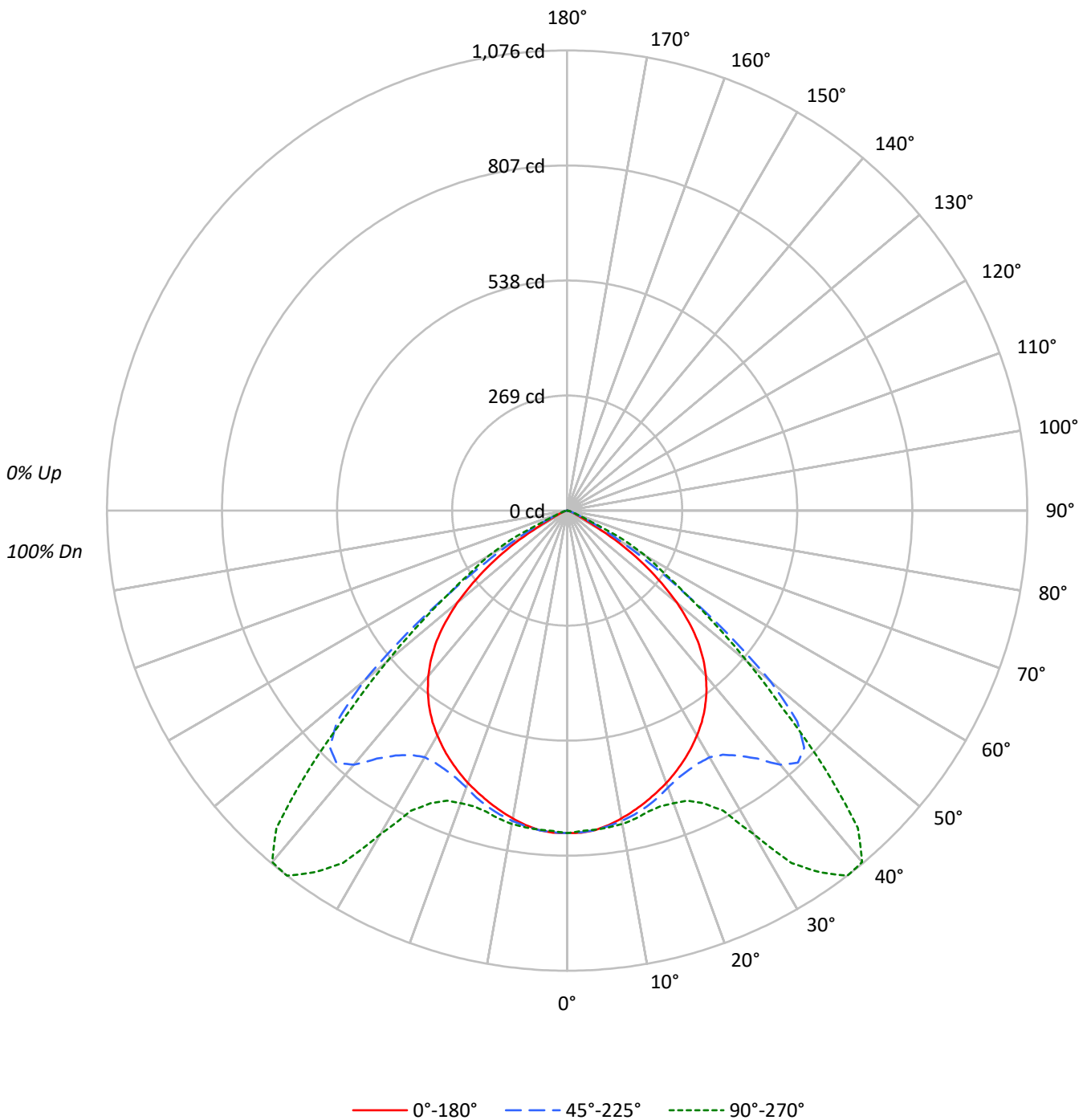
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 1950.4 lumens
Efficiency: 68.4%
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.87 / 1.62
Luminous Opening: Rectangular (W 0.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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	50	30	10	0	
RCR																						
0	81	81	81	81	80	80	80	80	76	76	76	73	73	73	70	70	70	70	70	70	68	
1	76	74	71	69	74	72	70	68	69	68	66	67	65	64	64	63	62	64	63	62	61	
2	71	66	62	59	69	65	61	58	62	59	57	60	58	56	58	56	55	58	56	55	53	
3	65	59	54	50	63	58	54	50	56	52	49	54	51	48	53	50	48	53	50	48	46	
4	60	53	48	44	59	52	47	43	50	46	43	49	45	42	47	44	42	47	44	42	40	
5	55	48	42	38	54	47	42	38	45	41	37	44	40	37	43	39	37	43	39	37	35	
6	51	43	37	33	50	42	37	33	41	36	33	40	36	33	39	35	32	39	35	32	31	
7	47	39	33	29	46	38	33	29	37	33	29	36	32	29	35	32	29	35	32	29	27	
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	29	26	32	29	26	24	
9	41	32	27	24	40	32	27	23	31	27	23	31	26	23	30	26	23	30	26	23	22	
10	38	30	25	21	38	29	25	21	29	24	21	28	24	21	28	24	21	28	24	21	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2943	2943	2943
5°	2939	2939	2935
10°	2898	2921	2949
15°	2853	2898	2946
20°	2816	2862	3024
25°	2778	2886	3252
30°	2736	3002	3944
35°	2678	3331	4923
40°	2573	3954	5468
45°	2385	4328	4692
50°	2034	3759	3340
55°	1490	2259	2273
60°	718	1140	1655
65°	249	462	573
70°	137	194	217
75°	90	121	121
80°	45	67	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°	71.2	3.7	2.5	0°	754	754	754	754	754	
10°-20°	202.7	10.4	7.1	5°	750	749	750	752	749	71
20°-30°	319.7	16.4	11.2	15°	706	708	717	727	729	199
30°-40°	469.7	24.1	16.5	25°	645	652	670	721	755	297
40°-50°	522.3	26.8	18.3	35°	562	578	699	934	1033	350
50°-60°	292.2	15.0	10.3	45°	432	519	784	848	850	329
60°-70°	62.7	3.2	2.2	55°	219	350	332	333	334	192
70°-80°	8.7	0.4	0.3	65°	27	36	50	63	62	35
80°-90°	1.2	0.1	0.0	75°	6	7	8	8	8	7
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°	593.6	30.4	20.8	165°	0	0	0	0	0	0
0°-40°	1063.2	54.5	37.3	175°	0	0	0	0	0	0
0°-60°	1877.8	96.3	65.9	180°	0	0	0	0	0	0
0°-90°	1950.4	100.0	68.4							
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°	1950.4	100.0	68.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754	754	754	754	754
2.5°	754	754	753	754	750
5°	750	749	750	752	749
7.5°	742	742	744	748	747
10°	731	732	737	744	744
12.5°	719	720	728	737	738
15°	706	708	717	727	729
17.5°	692	695	704	717	725
20°	678	682	689	715	728
22.5°	662	668	677	714	734
25°	645	652	670	721	755
27.5°	627	635	666	743	791
30°	607	617	666	780	875
32.5°	586	598	677	860	977
35°	562	578	699	934	1033
37.5°	535	561	731	967	1076
40°	505	546	776	984	1073
42.5°	471	532	799	946	1006
45°	432	519	784	848	850
47.5°	386	505	730	683	682
50°	335	481	619	540	550
52.5°	278	433	472	429	434
55°	219	350	332	333	334
57.5°	156	245	225	253	262
60°	92	142	146	187	212
62.5°	47	71	89	124	149
65°	27	36	50	63	62
67.5°	17	22	27	31	31
70°	12	14	17	19	19
72.5°	8	10	11	12	12
75°	6	7	8	8	8
77.5°	4	4	5	6	5
80°	2	3	3	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)