

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: 191P100

Luminaire Tested: **2PGX-432S46I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 191P100  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2PGX-432S46I-PAF  
Description: 2 X 4 Recessed Convertible Body Troffer with a 4" deep  
24 cell semi-specular low iridescent parabolic louver.  
Light Source: Four-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432I120RH Electronic: L.O.B.F. = 89.5

**Summary**

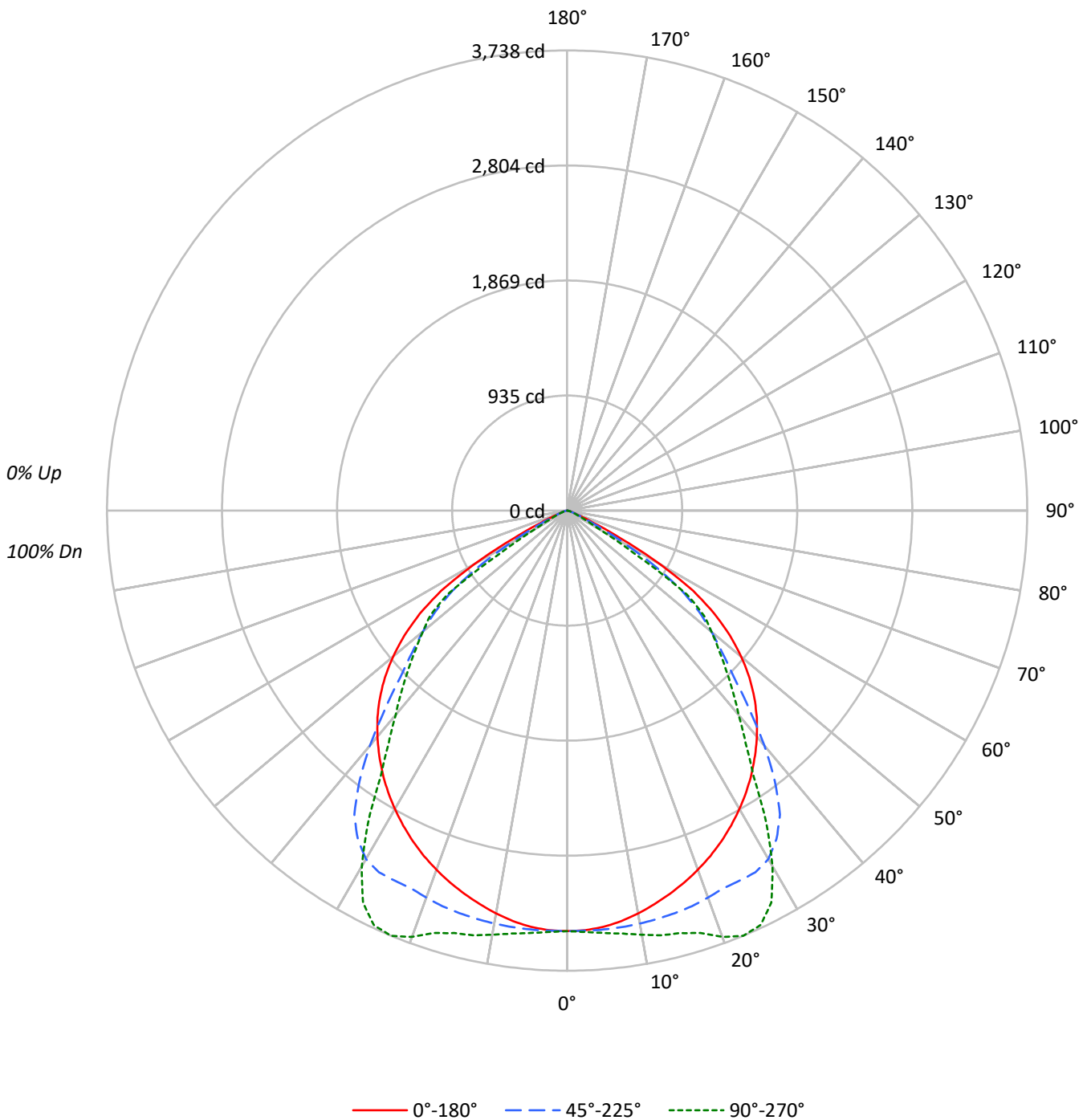
Lumens per Lamp: 2850 (4 lamps)  
Luminaire Lumens: 7390.4 lumens  
Efficiency: 64.8%  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.3  
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 112.2  
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	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	72	70	68	66	71	69	67	65	66	64	63		64	62	61		61	60	59	58
2	67	63	60	57	66	62	59	56	60	57	55		58	56	54		56	54	52	51
3	62	57	53	49	61	56	52	49	54	51	48		52	49	47		51	48	46	45
4	58	51	47	43	56	50	46	43	49	45	42		48	44	42		46	43	41	40
5	54	46	41	38	52	46	41	38	44	40	37		43	40	37		42	39	36	35
6	50	42	37	34	49	42	37	33	41	36	33		40	36	33		39	35	33	31
7	46	39	34	30	45	38	33	30	37	33	30		36	32	30		35	32	29	28
8	43	35	30	27	42	35	30	27	34	30	27		33	29	27		33	29	26	25
9	41	33	28	24	40	32	28	24	32	27	24		31	27	24		30	27	24	23
10	38	30	25	22	37	30	25	22	29	25	22		29	25	22		28	25	22	21

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

	0°	45°	90°
0°	5638	5638	5638
5°	5623	5659	5706
10°	5569	5708	5862
15°	5507	5784	6071
20°	5452	5875	6472
25°	5397	6040	6765
30°	5334	6230	6357
35°	5263	6072	5325
40°	5166	5367	4671
45°	5020	4472	4257
50°	4740	3926	3931
55°	4201	3277	3415
60°	2895	1868	944
65°	902	601	430
70°	347	290	241
75°	198	172	153
80°	124	114	95
85°	57	57	38



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	325.9	4.4	2.9	0°	3416	3416	3416	3416	3416	
10°-20°	959.4	13.0	8.4	5°	3394	3401	3416	3432	3444	322
20°-30°	1528.5	20.7	13.4	15°	3223	3271	3385	3501	3553	910
30°-40°	1738.2	23.5	15.2	25°	2964	3077	3317	3598	3715	1366
40°-50°	1547.3	20.9	13.6	35°	2612	2785	3014	2737	2643	1632
50°-60°	1040.3	14.1	9.1	45°	2151	2326	1916	1782	1824	1652
60°-70°	213.7	2.9	1.9	55°	1460	1352	1139	1065	1187	1271
70°-80°	32.7	0.4	0.3	65°	231	192	154	123	110	322
80°-90°	4.4	0.1	0.0	75°	31	31	27	25	24	37
90°-100°	0.0	0.0	0.0	85°	3	3	3	3	2	5
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°	2813.8	38.1	24.7	165°	0	0	0	0	0	0
0°-40°	4551.9	61.6	39.9	175°	0	0	0	0	0	0
0°-60°	7139.5	96.6	62.6	180°	0	0	0	0	0	0
0°-90°	7390.4	100.0	64.8							
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°	7390.4	100.0	64.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3416	3416	3416	3416	3416
2.5°	3412	3413	3415	3420	3426
5°	3394	3401	3416	3432	3444
7.5°	3364	3379	3413	3448	3466
10°	3323	3349	3406	3467	3498
12.5°	3275	3310	3397	3489	3533
15°	3223	3271	3385	3501	3553
17.5°	3167	3229	3370	3507	3597
20°	3104	3182	3345	3555	3685
22.5°	3038	3131	3320	3610	3738
25°	2964	3077	3317	3598	3715
27.5°	2884	3016	3312	3531	3590
30°	2799	2947	3269	3346	3336
32.5°	2708	2870	3165	3072	3014
35°	2612	2785	3014	2737	2643
37.5°	2507	2692	2773	2399	2382
40°	2398	2594	2491	2161	2168
42.5°	2280	2472	2192	1958	1990
45°	2151	2326	1916	1782	1824
47.5°	2009	2133	1709	1619	1670
50°	1846	1903	1529	1466	1531
52.5°	1666	1642	1354	1286	1402
55°	1460	1352	1139	1065	1187
57.5°	1214	1034	860	782	648
60°	877	698	566	402	286
62.5°	493	393	308	200	169
65°	231	192	154	123	110
67.5°	120	108	92	80	73
70°	72	69	60	54	50
72.5°	47	46	41	37	34
75°	31	31	27	25	24
77.5°	21	21	19	18	16
80°	13	14	12	11	10
82.5°	8	8	7	7	6
85°	3	3	3	3	2
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)