

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: 191P101

Luminaire Tested: **2PGX-432S49I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 191P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-432S49I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a 4" deep
36 cell semi-specular low iridescent parabolic louver.
Light Source: Four FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B432I120RH Electronic - L.O.B.F. = 89.5

Summary

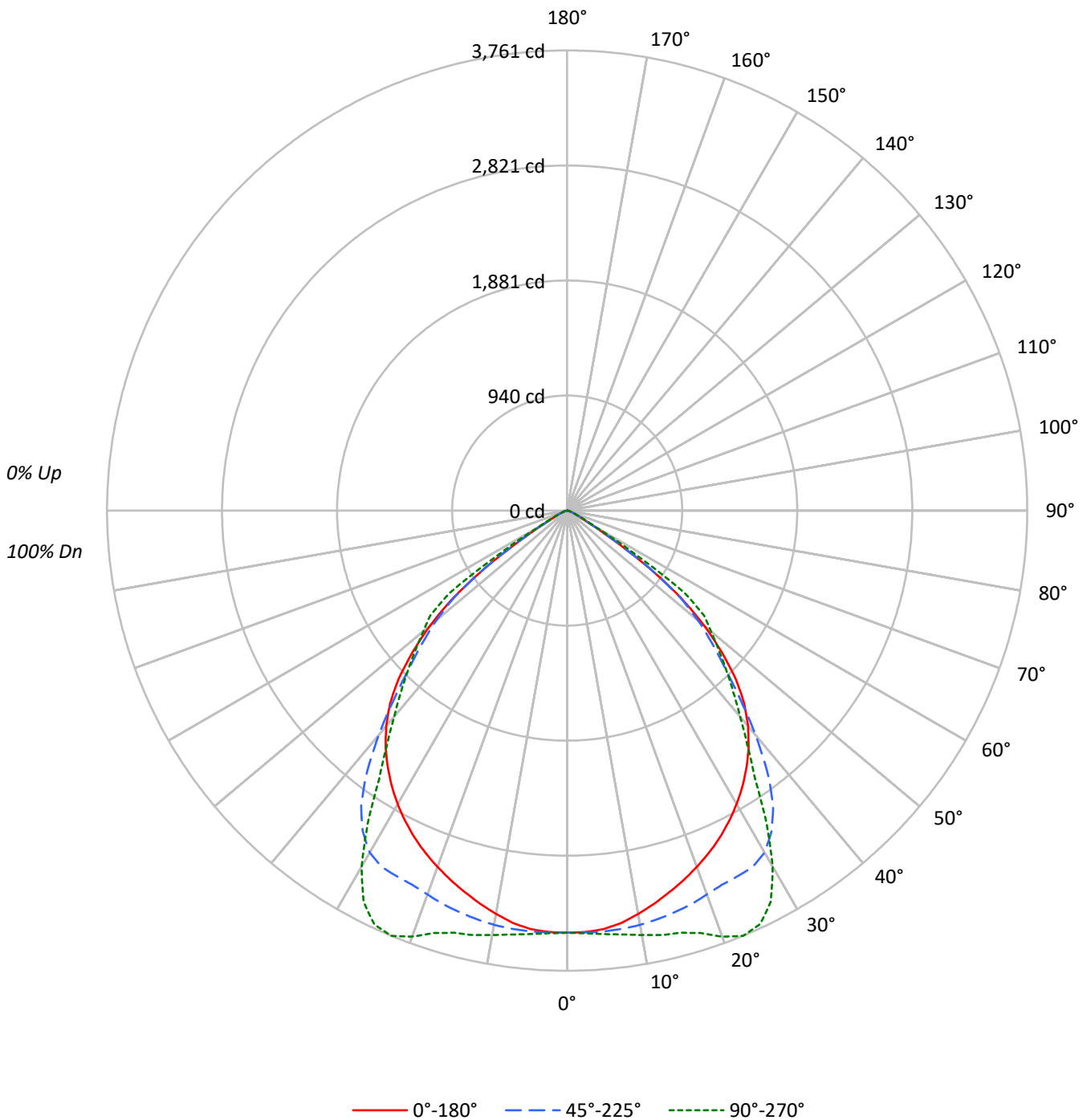
Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 6887.7 lumens
Efficiency: 60.4%
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.28
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	68	66	64	62	66	64	63	61	62	60	59	59	58	57	57	57	56	55
2	63	59	56	54	62	58	55	53	56	54	52	54	52	51	53	51	50	49
3	59	54	50	47	57	53	49	46	51	48	46	50	47	45	48	46	44	43
4	55	49	44	41	53	48	44	41	47	43	40	45	42	40	44	42	39	38
5	51	44	40	37	50	44	39	36	43	39	36	41	38	36	40	38	35	34
6	47	40	36	33	46	40	36	32	39	35	32	38	35	32	37	34	32	31
7	44	37	32	29	43	37	32	29	36	32	29	35	31	29	34	31	29	28
8	41	34	30	26	40	34	29	26	33	29	26	32	29	26	32	28	26	25
9	39	31	27	24	38	31	27	24	30	27	24	30	26	24	29	26	24	23
10	36	29	25	22	36	29	25	22	28	24	22	28	24	22	27	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5694	5694	5694
5°	5687	5719	5755
10°	5611	5762	5902
15°	5517	5808	6103
20°	5443	5864	6509
25°	5372	6006	6794
30°	5279	6150	6401
35°	5152	5913	5394
40°	4955	5162	4742
45°	4549	4264	4290
50°	3749	3587	3939
55°	2342	2365	3367
60°	733	762	885
65°	348	344	375
70°	207	198	203
75°	134	134	128
80°	95	86	86
85°	38	38	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	329.0	4.8	2.9	0°	3450	3450	3450	3450	3450	
10°-20°	963.2	14.0	8.4	5°	3433	3436	3452	3464	3474	325
20°-30°	1523.9	22.1	13.4	15°	3229	3276	3399	3526	3572	911
30°-40°	1713.2	24.9	15.0	25°	2950	3054	3298	3610	3731	1358
40°-50°	1461.1	21.2	12.8	35°	2557	2728	2935	2724	2677	1596
50°-60°	761.3	11.1	6.7	45°	1949	2139	1827	1758	1838	1479
60°-70°	109.0	1.6	1.0	55°	814	743	822	962	1170	722
70°-80°	23.7	0.3	0.2	65°	89	88	88	95	96	103
80°-90°	3.3	0.0	0.0	75°	21	21	21	21	20	24
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	4
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°	2816.1	40.9	24.7	165°	0	0	0	0	0	0
0°-40°	4529.3	65.8	39.7	175°	0	0	0	0	0	0
0°-60°	6751.7	98.0	59.2	180°	0	0	0	0	0	0
0°-90°	6887.7	100.0	60.4							
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°	6887.7	100.0	60.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3450	3450	3450	3450	3450
2.5°	3448	3446	3451	3454	3458
5°	3433	3436	3452	3464	3474
7.5°	3399	3412	3449	3480	3494
10°	3348	3372	3438	3497	3522
12.5°	3290	3324	3420	3517	3554
15°	3229	3276	3399	3526	3572
17.5°	3166	3225	3373	3533	3619
20°	3099	3171	3339	3577	3706
22.5°	3028	3114	3309	3626	3761
25°	2950	3054	3298	3610	3731
27.5°	2864	2986	3283	3522	3604
30°	2770	2909	3227	3335	3359
32.5°	2669	2824	3110	3058	3033
35°	2557	2728	2935	2724	2677
37.5°	2436	2622	2686	2393	2419
40°	2300	2499	2396	2153	2201
42.5°	2143	2342	2096	1943	2008
45°	1949	2139	1827	1758	1838
47.5°	1715	1856	1607	1590	1676
50°	1460	1485	1397	1428	1534
52.5°	1174	1090	1158	1227	1409
55°	814	743	822	962	1170
57.5°	439	448	451	636	627
60°	222	239	231	310	268
62.5°	135	136	137	156	152
65°	89	88	88	95	96
67.5°	61	60	60	62	63
70°	43	42	41	42	42
72.5°	30	30	29	29	29
75°	21	21	21	21	20
77.5°	15	14	14	14	14
80°	10	10	9	9	9
82.5°	6	6	5	6	5
85°	2	2	2	2	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)