

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: 193P103

Luminaire Tested: **PGX2048-432S49I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 193P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2048-432S49I-PAF
Description: 20" X 48" Recessed Convertible Body Luminaire
with a 4" deep 36 cell semi-specular low iridescent
parabolic louver.
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B4321120RH Electronic - L.O.B.F. = 89.5

Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 5973.8 lumens
Efficiency: 53.3%
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.16 / 1.19
Luminous Opening: Rectangular (W 1.4' x L: 3.76' x H: 0')
CIE Type: Direct

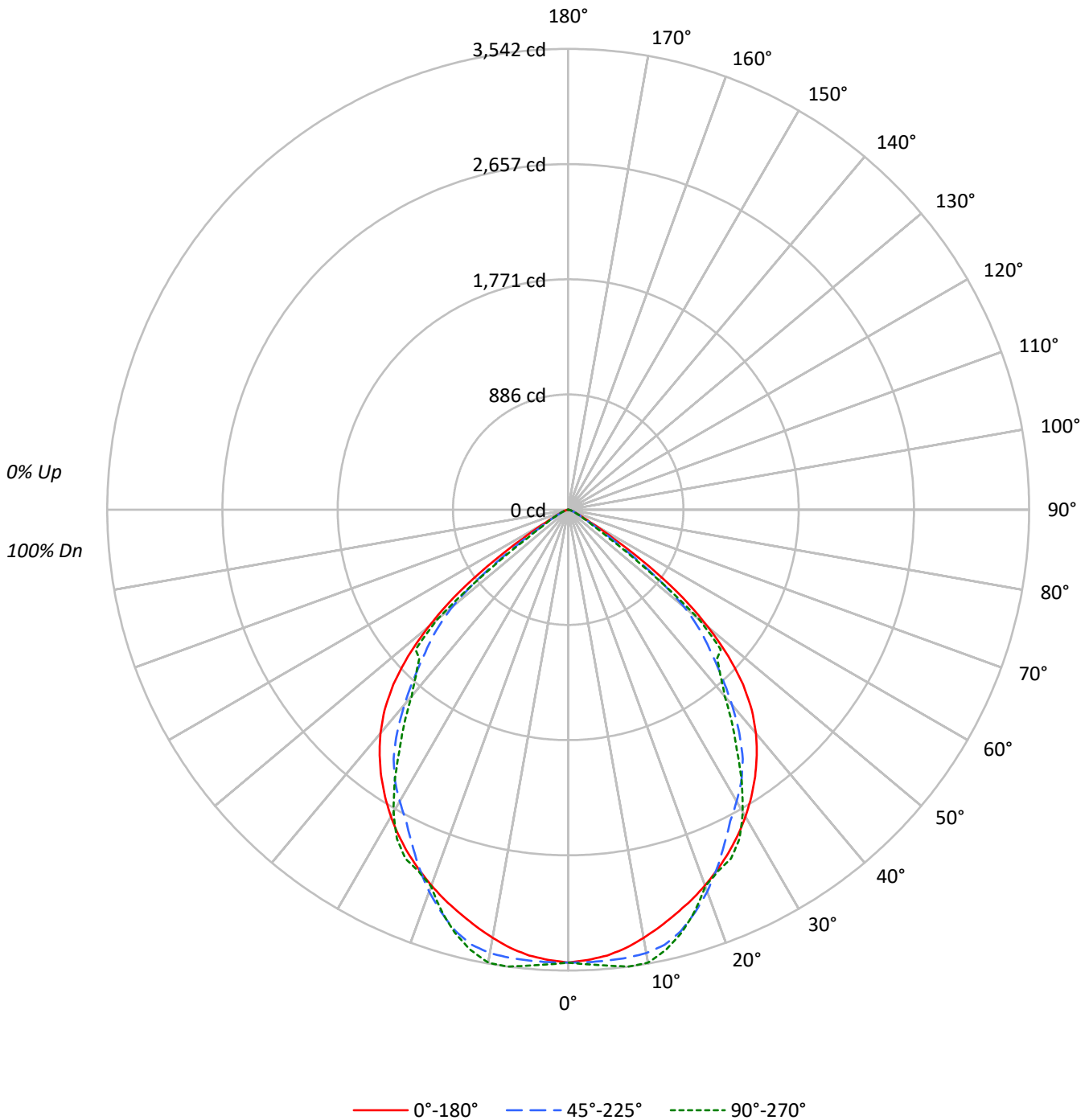
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	63	63	63	62	62	62	62	59	59	59	57	57	57	54	54	54	53
1	60	58	56	55	58	57	55	54	55	53	52	53	52	51	51	50	49	48
2	56	53	50	48	55	52	49	47	50	48	46	48	47	45	47	45	44	43
3	52	48	45	42	51	47	44	42	46	43	41	44	42	40	43	41	40	39
4	49	44	40	37	47	43	39	37	42	39	36	41	38	36	39	37	35	34
5	45	40	36	33	44	39	36	33	38	35	33	37	34	32	36	34	32	31
6	42	36	32	30	41	36	32	29	35	32	29	34	31	29	33	31	29	28
7	40	33	29	27	39	33	29	27	32	29	26	32	29	26	31	28	26	25
8	37	31	27	24	36	31	27	24	30	26	24	29	26	24	29	26	24	23
9	35	29	25	22	34	28	25	22	28	24	22	27	24	22	27	24	22	21
10	33	27	23	20	32	26	23	20	26	22	20	25	22	20	25	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7112	7112	7112
5°	7055	7135	7213
10°	6934	7178	7334
15°	6794	7088	7120
20°	6682	6790	6699
25°	6565	6396	6668
30°	6427	6106	6327
35°	6246	5834	5639
40°	5985	5225	4988
45°	5490	4490	4675
50°	4463	3713	4180
55°	2711	1810	1393
60°	862	658	613
65°	435	358	348
70°	257	233	221
75°	174	166	150
80°	118	118	106
85°	70	94	70



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	331.2	5.5	3.0	0°	3481	3481	3481	3481	3481	
10°-20°	931.4	15.6	8.3	5°	3440	3454	3479	3500	3517	325
20°-30°	1334.5	22.3	11.9	15°	3212	3273	3351	3359	3366	906
30°-40°	1461.8	24.5	13.1	25°	2912	2973	2837	2867	2958	1341
40°-50°	1259.7	21.1	11.2	35°	2504	2441	2339	2233	2261	1562
50°-60°	541.5	9.1	4.8	45°	1900	1747	1554	1521	1618	1440
60°-70°	85.9	1.4	0.8	55°	761	617	508	495	391	682
70°-80°	23.6	0.4	0.2	65°	90	80	74	73	72	101
80°-90°	4.4	0.1	0.0	75°	22	22	21	20	19	25
90°-100°	0.0	0.0	0.0	85°	3	4	4	3	3	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°	2597.1	43.5	23.2	165°	0	0	0	0	0	0
0°-40°	4058.8	67.9	36.2	175°	0	0	0	0	0	0
0°-60°	5860.0	98.1	52.3	180°	0	0	0	0	0	0
0°-90°	5973.8	100.0	53.3							
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°	5973.8	100.0	53.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3481	3481	3481	3481	3481
2.5°	3464	3473	3481	3486	3498
5°	3440	3454	3479	3500	3517
7.5°	3398	3423	3473	3518	3542
10°	3342	3379	3460	3518	3535
12.5°	3279	3327	3426	3457	3466
15°	3212	3273	3351	3359	3366
17.5°	3146	3215	3244	3235	3235
20°	3073	3149	3123	3078	3081
22.5°	2995	3070	2986	2946	3007
25°	2912	2973	2837	2867	2958
27.5°	2822	2860	2697	2784	2851
30°	2724	2730	2588	2633	2682
32.5°	2618	2591	2476	2444	2481
35°	2504	2441	2339	2233	2261
37.5°	2380	2283	2159	2016	2067
40°	2244	2115	1959	1826	1870
42.5°	2089	1939	1749	1650	1732
45°	1900	1747	1554	1521	1618
47.5°	1670	1517	1381	1365	1590
50°	1404	1235	1168	1199	1315
52.5°	1109	923	863	869	809
55°	761	617	508	495	391
57.5°	411	353	267	255	227
60°	211	191	161	157	150
62.5°	131	117	107	105	103
65°	90	80	74	73	72
67.5°	62	57	53	52	52
70°	43	41	39	38	37
72.5°	31	30	29	28	27
75°	22	22	21	20	19
77.5°	15	15	15	15	14
80°	10	11	10	10	9
82.5°	6	7	7	6	6
85°	3	4	4	3	3
87.5°	1	1	1	1	1
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)