

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: ITL49406

Luminaire Tested: **PGX2048-432S46I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL49406  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX2048-432S46I  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED  
SEMI-SPECULAR METAL PARABOLIC 24-CELL LOUVER.  
Light Source: FOUR 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENTS.  
Ballast/Driver: MOTOROLA M4-IN-T8-GP-D-120, L.O.B.F. = 85.3%

**Summary**

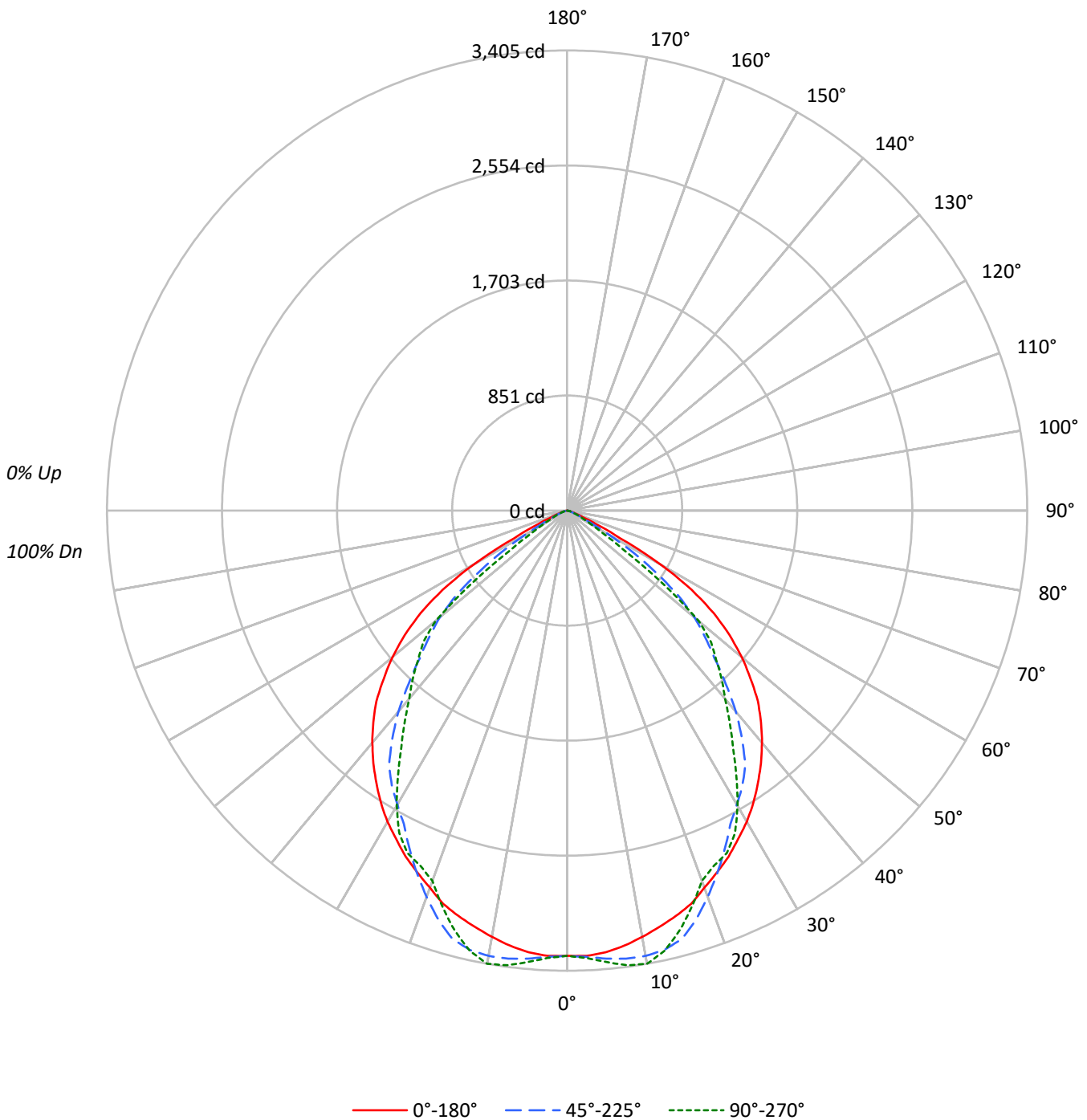
Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 6254.0 lumens  
Efficiency: 55.8%  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.15 / 1.21  
Luminous Opening: Rectangular (W 1.41' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56
1	62	60	59	57	61	59	58	56	57	56	54	55	54	53	53	52	51	50
2	58	55	52	49	57	54	51	49	52	49	48	50	48	47	48	47	46	44
3	54	49	46	43	53	48	45	42	47	44	42	45	43	41	44	42	40	39
4	50	45	41	38	49	44	40	37	43	39	37	41	39	36	40	38	36	35
5	47	41	36	33	46	40	36	33	39	35	33	38	35	32	37	34	32	31
6	43	37	33	30	42	36	32	29	36	32	29	35	31	29	34	31	29	28
7	40	34	30	27	40	33	29	26	33	29	26	32	29	26	31	28	26	25
8	38	31	27	24	37	31	27	24	30	26	24	29	26	24	29	26	24	23
9	35	29	25	22	35	28	25	22	28	24	22	27	24	22	27	24	22	21
10	33	27	23	20	33	26	23	20	26	22	20	25	22	20	25	22	20	19

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

	0°	45°	90°
0°	6707	6707	6707
5°	6704	6800	6853
10°	6620	6916	7038
15°	6545	6914	6779
20°	6431	6587	6314
25°	6347	6201	6279
30°	6247	5904	5928
35°	6115	5708	5317
40°	5960	5160	4828
45°	5746	4433	4488
50°	5342	3892	4025
55°	4698	2889	1884
60°	3277	1470	851
65°	1127	520	486
70°	434	286	292
75°	252	181	181
80°	176	105	94
85°	93	23	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	317.3	5.1	2.8	0°	3295	3295	3295	3295	3295	
10°-20°	903.5	14.4	8.1	5°	3281	3298	3328	3343	3354	311
20°-30°	1295.6	20.7	11.6	15°	3106	3201	3281	3249	3217	875
30°-40°	1437.6	23.0	12.8	25°	2826	2956	2761	2746	2796	1301
40°-50°	1293.8	20.7	11.6	35°	2461	2442	2297	2192	2140	1539
50°-60°	798.6	12.8	7.1	45°	1996	1842	1540	1548	1559	1529
60°-70°	173.9	2.8	1.6	55°	1324	1116	814	707	531	1154
70°-80°	30.1	0.5	0.3	65°	234	164	108	114	101	303
80°-90°	3.6	0.1	0.0	75°	32	28	23	24	23	38
90°-100°	0.0	0.0	0.0	85°	4	4	1	2	0	5
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	2516.4	40.2	22.5							
0°-40°	3954.0	63.2	35.3							
0°-60°	6046.4	96.7	54.0							
0°-90°	6254.0	100.0	55.8							
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°	6254.0	100.0	55.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3295	3295	3295	3295	3295
2.5°	3298	3302	3305	3304	3313
5°	3281	3298	3328	3343	3354
7.5°	3247	3287	3344	3380	3393
10°	3203	3266	3346	3398	3405
12.5°	3155	3239	3329	3354	3335
15°	3106	3201	3281	3249	3217
17.5°	3051	3158	3173	3124	3072
20°	2969	3103	3041	2960	2915
22.5°	2897	3040	2904	2816	2842
25°	2826	2956	2761	2746	2796
27.5°	2739	2850	2615	2679	2690
30°	2658	2728	2512	2551	2522
32.5°	2565	2582	2413	2382	2330
35°	2461	2442	2297	2192	2140
37.5°	2355	2299	2125	1994	1974
40°	2243	2150	1942	1830	1817
42.5°	2124	1998	1735	1679	1693
45°	1996	1842	1540	1548	1559
47.5°	1841	1688	1384	1407	1445
50°	1687	1522	1229	1245	1271
52.5°	1515	1336	1038	1050	910
55°	1324	1116	814	707	531
57.5°	1094	882	584	420	320
60°	805	594	361	256	209
62.5°	443	320	191	166	141
65°	234	164	108	114	101
67.5°	122	97	72	78	71
70°	73	63	48	55	49
72.5°	47	41	33	37	32
75°	32	28	23	24	23
77.5°	22	20	15	16	15
80°	15	13	9	10	8
82.5°	8	7	5	5	4
85°	4	4	1	2	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)