

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: ITL49401

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL49401  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2PGX-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**

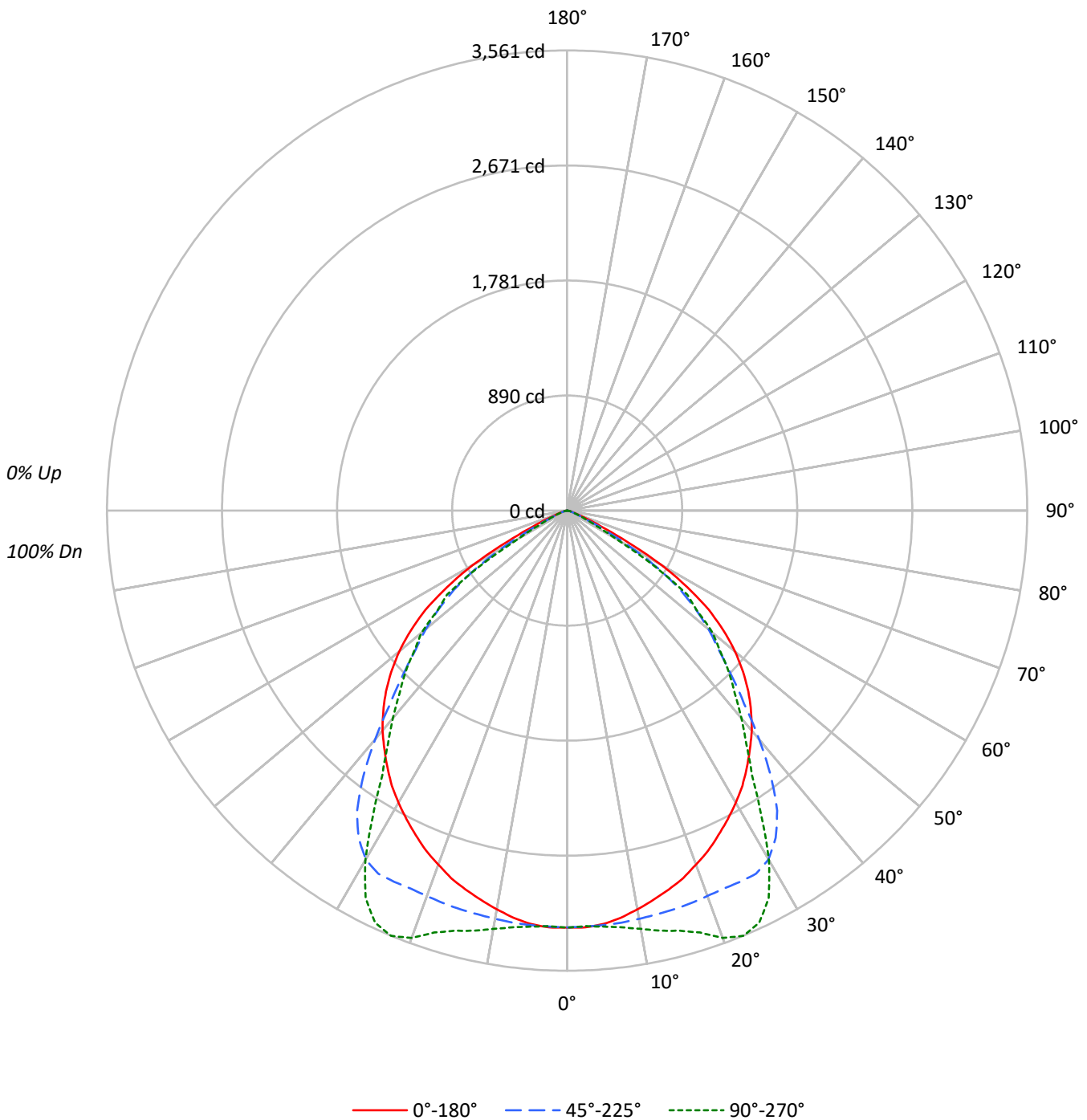
Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 7048.0 lumens  
Efficiency: 62.9%  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.3  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	70	68	66	64	69	67	65	63	64	62	61	62	60	59	59	58	58	56
2	65	61	58	55	64	60	57	54	58	55	53	56	54	52	54	52	51	50
3	60	55	51	47	59	54	50	47	52	49	46	51	48	45	49	47	45	44
4	56	50	45	41	55	49	44	41	47	44	41	46	43	40	45	42	40	38
5	52	45	40	36	51	44	40	36	43	39	36	42	38	36	41	38	35	34
6	48	41	36	32	47	40	36	32	39	35	32	38	34	32	37	34	31	30
7	45	37	32	29	44	37	32	29	36	32	29	35	31	28	34	31	28	27
8	42	34	29	26	41	34	29	26	33	29	26	32	28	26	32	28	26	24
9	39	31	27	24	38	31	27	24	30	26	23	30	26	23	29	26	23	22
10	37	29	25	21	36	29	24	21	28	24	21	28	24	21	27	24	21	20

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

	0°	45°	90°
0°	5308	5308	5308
5°	5305	5319	5337
10°	5235	5360	5492
15°	5172	5441	5734
20°	5104	5556	6162
25°	5031	5754	6387
30°	4959	5922	5936
35°	4873	5693	5004
40°	4775	4966	4506
45°	4614	4175	4121
50°	4344	3658	3760
55°	3838	3067	3253
60°	2774	1889	1438
65°	1102	670	603
70°	404	303	327
75°	235	184	191
80°	161	104	104
85°	76	38	38



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	307.2	4.4	2.7	0°	3226	3226	3226	3226	3226	
10°-20°	907.1	12.9	8.1	5°	3212	3217	3220	3231	3231	304
20°-30°	1447.7	20.5	12.9	15°	3036	3085	3194	3320	3366	856
30°-40°	1635.8	23.2	14.6	25°	2771	2889	3169	3435	3518	1277
40°-50°	1462.1	20.7	13.1	35°	2426	2626	2834	2565	2491	1517
50°-60°	1000.0	14.2	8.9	45°	1983	2188	1794	1736	1771	1523
60°-70°	246.8	3.5	2.2	55°	1338	1266	1069	1027	1134	1167
70°-80°	37.0	0.5	0.3	65°	283	222	172	166	155	346
80°-90°	4.2	0.1	0.0	75°	37	32	29	31	30	44
90°-100°	0.0	0.0	0.0	85°	4	3	2	2	2	6
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°	2662.0	37.8	23.8							
0°-40°	4297.8	61.0	38.4							
0°-60°	6759.9	95.9	60.4							
0°-90°	7048.0	100.0	62.9							
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°	7048.0	100.0	62.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3226	3226	3226	3226	3226
2.5°	3229	3230	3222	3222	3219
5°	3212	3217	3220	3231	3231
7.5°	3179	3193	3217	3245	3252
10°	3133	3160	3208	3267	3287
12.5°	3086	3122	3200	3296	3330
15°	3036	3085	3194	3320	3366
17.5°	2983	3039	3186	3346	3423
20°	2915	2990	3173	3403	3519
22.5°	2850	2943	3166	3458	3561
25°	2771	2889	3169	3435	3518
27.5°	2692	2834	3168	3352	3379
30°	2610	2771	3117	3143	3124
32.5°	2524	2700	3004	2873	2795
35°	2426	2626	2834	2565	2491
37.5°	2323	2547	2591	2287	2277
40°	2223	2451	2312	2076	2098
42.5°	2107	2339	2027	1899	1921
45°	1983	2188	1794	1736	1771
47.5°	1846	2003	1586	1569	1602
50°	1697	1783	1429	1414	1469
52.5°	1526	1542	1252	1253	1259
55°	1338	1266	1069	1027	1134
57.5°	1102	987	838	819	810
60°	843	703	574	550	437
62.5°	521	430	331	285	248
65°	283	222	172	166	155
67.5°	148	119	97	107	101
70°	84	74	63	70	68
72.5°	54	48	42	47	46
75°	37	32	29	31	30
77.5°	25	22	19	20	20
80°	17	14	11	12	11
82.5°	9	8	6	6	5
85°	4	3	2	2	2
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)