

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: 220p203

Luminaire Tested: **2EP3GX-432S46I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p203
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S46I-PAF
Description: 2X4 EP3GX RECESSED LUMINAIRE, PAF, WITH 24 CELL SILVER
PARABOLIC LOUVER.
Light Source: FOUR LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

Lumens per Lamp: 3100 (4 lamps)
Luminaire Lumens: 8688.6 lumens
Efficiency: 70.1%
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.42 / 1.4
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

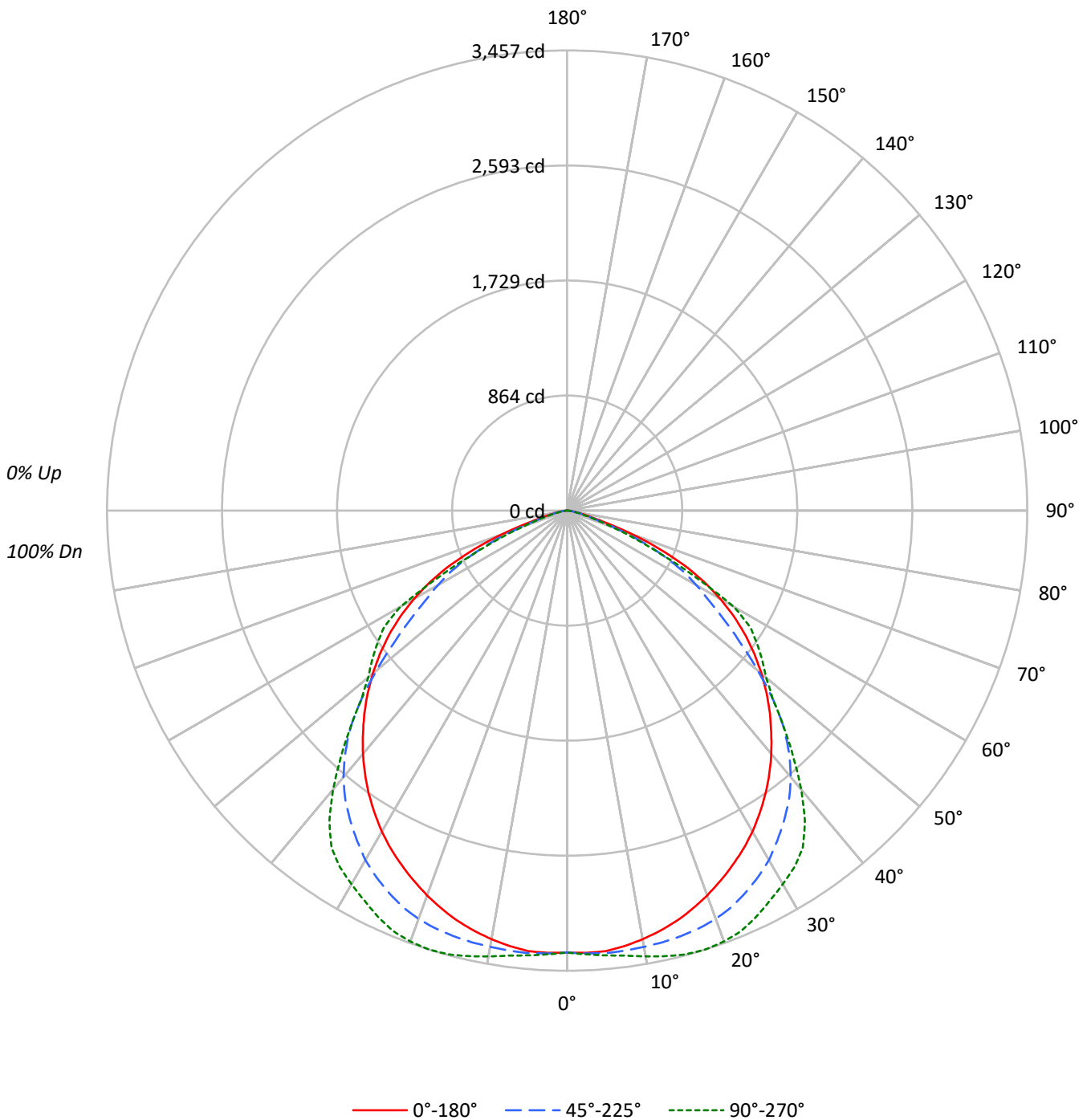
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	83	83	83	81	81	81	81	78	78	78		75	75	75		71	71	71	70
1	77	75	72	70	76	73	71	69	70	68	66		67	66	64		65	64	63	61
2	71	66	62	58	69	65	61	58	62	59	56		60	57	55		58	56	54	52
3	65	59	53	49	64	57	53	49	55	51	48		54	50	47		52	49	46	45
4	60	52	47	42	58	51	46	42	50	45	41		48	44	41		47	43	40	39
5	55	47	41	37	54	46	41	36	45	40	36		43	39	36		42	38	35	34
6	51	42	36	32	50	42	36	32	40	35	32		39	35	31		38	34	31	30
7	47	38	33	28	46	38	32	28	37	32	28		36	31	28		35	31	28	26
8	44	35	29	25	43	35	29	25	34	29	25		33	28	25		32	28	25	24
9	41	32	27	23	40	32	26	23	31	26	23		30	26	23		30	25	22	21
10	39	30	24	21	38	29	24	21	29	24	21		28	24	21		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5511	5511	5511
5°	5536	5561	5589
10°	5512	5610	5733
15°	5482	5687	5931
20°	5434	5768	6084
25°	5385	5804	6165
30°	5336	5810	6212
35°	5265	5757	6258
40°	5170	5667	5929
45°	5057	5402	5406
50°	4920	4832	5038
55°	4735	4188	5039
60°	4416	3728	4804
65°	3802	3115	3115
70°	2538	1907	1704
75°	1122	943	891
80°	707	593	516
85°	476	362	267



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	318.2	3.7	2.6	0°	3320	3320	3320	3320	3320	
10°-20°	936.5	10.8	7.6	5°	3322	3323	3337	3349	3354	315
20°-30°	1455.5	16.8	11.7	15°	3190	3221	3309	3407	3451	899
30°-40°	1773.3	20.4	14.3	25°	2940	3021	3169	3295	3366	1355
40°-50°	1741.4	20.0	14.0	35°	2598	2725	2841	2972	3088	1624
50°-60°	1425.1	16.4	11.5	45°	2154	2285	2301	2240	2303	1660
60°-70°	822.9	9.5	6.6	55°	1636	1669	1447	1580	1741	1457
70°-80°	190.2	2.2	1.5	65°	968	844	793	808	793	939
80°-90°	25.5	0.3	0.2	75°	175	154	147	142	139	235
90°-100°	0.0	0.0	0.0	85°	25	22	19	16	14	32
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°	2710.2	31.2	21.9							
0°-40°	4483.6	51.6	36.2							
0°-60°	7650.0	88.0	61.7							
0°-90°	8688.6	100.0	70.1							
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°	8688.6	100.0	70.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3320	3320	3320	3320	3320
2.5°	3326	3327	3330	3335	3337
5°	3322	3323	3337	3349	3354
7.5°	3300	3309	3334	3361	3372
10°	3270	3289	3328	3378	3401
12.5°	3233	3258	3321	3394	3429
15°	3190	3221	3309	3407	3451
17.5°	3136	3177	3291	3405	3457
20°	3076	3131	3265	3382	3444
22.5°	3010	3078	3224	3347	3419
25°	2940	3021	3169	3295	3366
27.5°	2866	2958	3105	3222	3301
30°	2784	2888	3031	3145	3241
32.5°	2693	2810	2939	3069	3177
35°	2598	2725	2841	2972	3088
37.5°	2495	2630	2738	2853	2934
40°	2386	2525	2615	2676	2736
42.5°	2270	2410	2467	2462	2517
45°	2154	2285	2301	2240	2303
47.5°	2032	2152	2095	2025	2094
50°	1905	2005	1871	1830	1951
52.5°	1774	1845	1649	1691	1848
55°	1636	1669	1447	1580	1741
57.5°	1489	1478	1266	1457	1631
60°	1330	1277	1123	1315	1447
62.5°	1159	1066	974	1082	1103
65°	968	844	793	808	793
67.5°	750	622	594	551	551
70°	523	423	393	361	351
72.5°	308	257	236	223	215
75°	175	154	147	142	139
77.5°	112	101	95	91	88
80°	74	67	62	57	54
82.5°	46	41	37	33	30
85°	25	22	19	16	14
87.5°	9	8	6	5	3
90°	0	0	0	0	0

(END OF REPORT)