

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: 188P145

Luminaire Tested: **2EP3GX-432W26P-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 188P145  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-432W26P-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep  
12 cell white painted parabolic louver.  
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

**Summary**

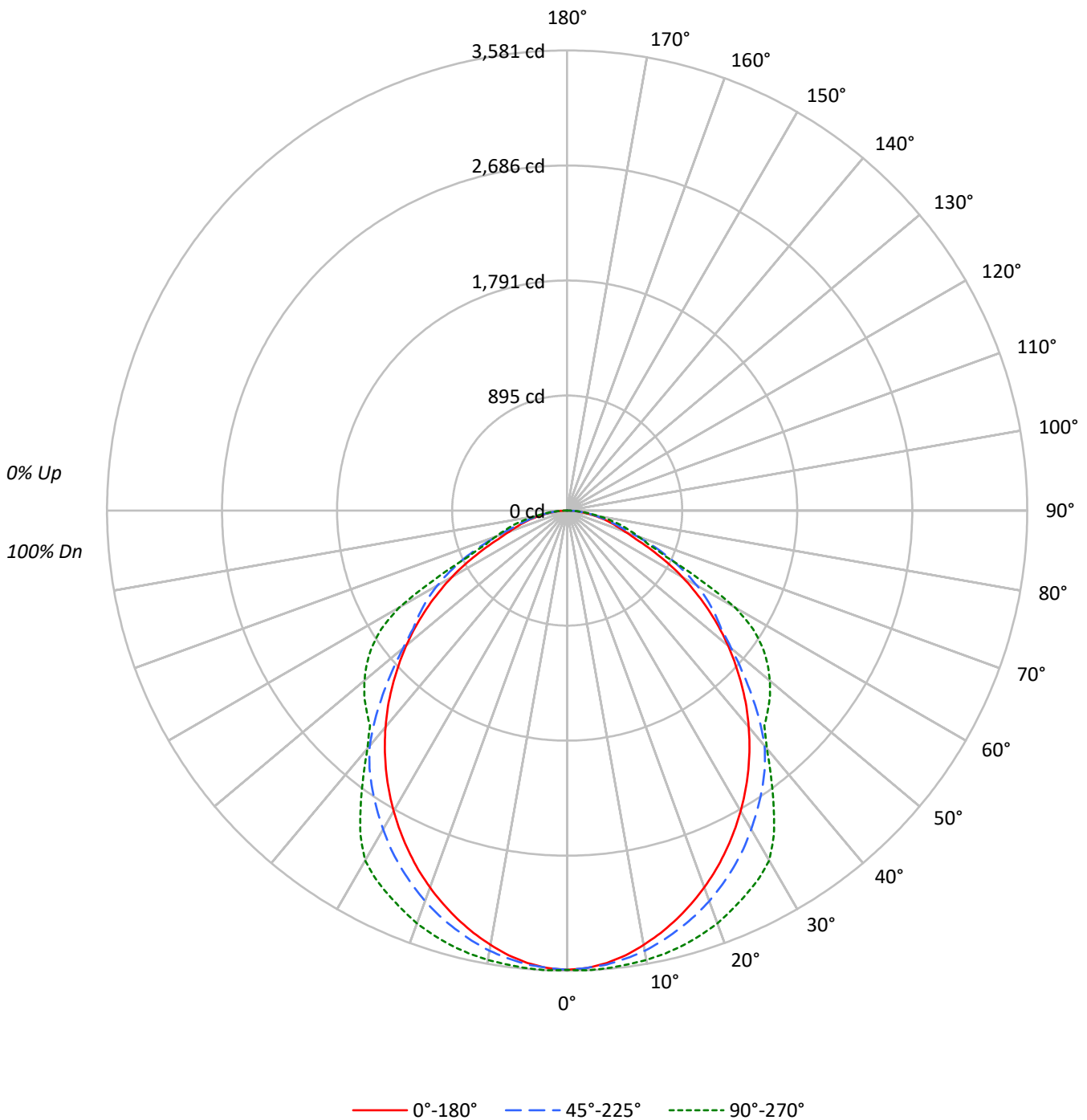
Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 8621.9 lumens  
Efficiency: 77.0%  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.28 / 1.29  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 112.2  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77						77													
1	84	81	78	75	82	79	77	74	76	74	72	73	71	70	70	69	68	66						66													
2	77	71	67	62	75	70	65	62	67	64	60	65	62	59	63	60	58	56						56													
3	71	63	57	53	69	62	57	52	60	55	51	58	54	50	56	52	50	48						48													
4	65	56	50	45	63	55	49	45	53	48	44	52	47	44	50	46	43	41						41													
5	60	51	44	39	59	50	44	39	48	43	39	47	42	38	45	41	38	36						36													
6	56	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32						32													
7	52	42	35	31	50	41	35	30	40	34	30	39	34	30	38	33	30	28						28													
8	48	38	32	27	47	38	32	27	37	31	27	36	31	27	35	30	27	25						25													
9	45	35	29	25	44	35	29	25	34	28	25	33	28	24	32	28	24	23						23													
10	42	32	26	23	41	32	26	22	31	26	22	31	26	22	30	25	22	21						21													

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

	0°	45°	90°
0°	5933	5933	5933
5°	5890	5909	5957
10°	5785	5862	5984
15°	5657	5791	6016
20°	5513	5713	6040
25°	5352	5612	6039
30°	5175	5490	6028
35°	4983	5360	5678
40°	4765	5181	5237
45°	4512	4768	5181
50°	4220	4302	5317
55°	3875	4066	5374
60°	3439	3871	5026
65°	2848	3480	3339
70°	2320	2757	2859
75°	2149	2309	2739
80°	1960	2103	2447
85°	1714	1828	2133



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	336.8	3.9	3.0	0°	3574	3574	3574	3574	3574	
10°-20°	953.8	11.1	8.5	5°	3535	3534	3546	3567	3575	334
20°-30°	1420.2	16.5	12.7	15°	3292	3307	3370	3458	3501	927
30°-40°	1642.8	19.1	14.7	25°	2922	2957	3064	3201	3297	1345
40°-50°	1572.0	18.2	14.0	35°	2459	2512	2645	2753	2802	1536
50°-60°	1348.8	15.6	12.0	45°	1922	1984	2031	2036	2207	1481
60°-70°	841.0	9.8	7.5	55°	1339	1406	1405	1655	1857	1195
70°-80°	394.0	4.6	3.5	65°	725	759	886	886	850	726
80°-90°	112.5	1.3	1.0	75°	335	340	360	400	427	356
90°-100°	0.0	0.0	0.0	85°	90	91	96	106	112	97
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	2710.8	31.4	24.2	165°	0	0	0	0	0	0
0°-40°	4353.6	50.5	38.9	175°	0	0	0	0	0	0
0°-60°	7274.4	84.4	65.0	180°	0	0	0	0	0	0
0°-90°	8621.9	100.0	77.0							
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°	8621.9	100.0	77.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3574	3574	3574	3574	3574
2.5°	3563	3559	3562	3577	3581
5°	3535	3534	3546	3567	3575
7.5°	3490	3494	3516	3551	3564
10°	3432	3441	3478	3528	3550
12.5°	3366	3378	3429	3496	3530
15°	3292	3307	3370	3458	3501
17.5°	3210	3230	3306	3407	3463
20°	3121	3145	3234	3350	3419
22.5°	3025	3054	3151	3283	3359
25°	2922	2957	3064	3201	3297
27.5°	2814	2852	2970	3122	3230
30°	2700	2744	2864	3033	3145
32.5°	2582	2631	2756	2923	2994
35°	2459	2512	2645	2753	2802
37.5°	2331	2386	2527	2559	2605
40°	2199	2256	2391	2363	2417
42.5°	2063	2124	2216	2178	2271
45°	1922	1984	2031	2036	2207
47.5°	1778	1841	1844	1955	2141
50°	1634	1699	1666	1868	2059
52.5°	1488	1556	1512	1767	1967
55°	1339	1406	1405	1655	1857
57.5°	1187	1248	1292	1528	1716
60°	1036	1082	1166	1377	1514
62.5°	881	916	1032	1165	1165
65°	725	759	886	886	850
67.5°	579	614	733	668	683
70°	478	494	568	562	589
72.5°	404	411	445	477	505
75°	335	340	360	400	427
77.5°	268	272	287	318	337
80°	205	209	220	241	256
82.5°	145	148	156	171	180
85°	90	91	96	106	112
87.5°	40	40	42	46	48
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)