

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: 220P181

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P181
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432W26P
Description: 2 X 4 Recessed Convertible Body Luminaire with a
12 cell white painted parabolic louver.
Light Source: Four FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B432I120RH-A Electronic

Summary

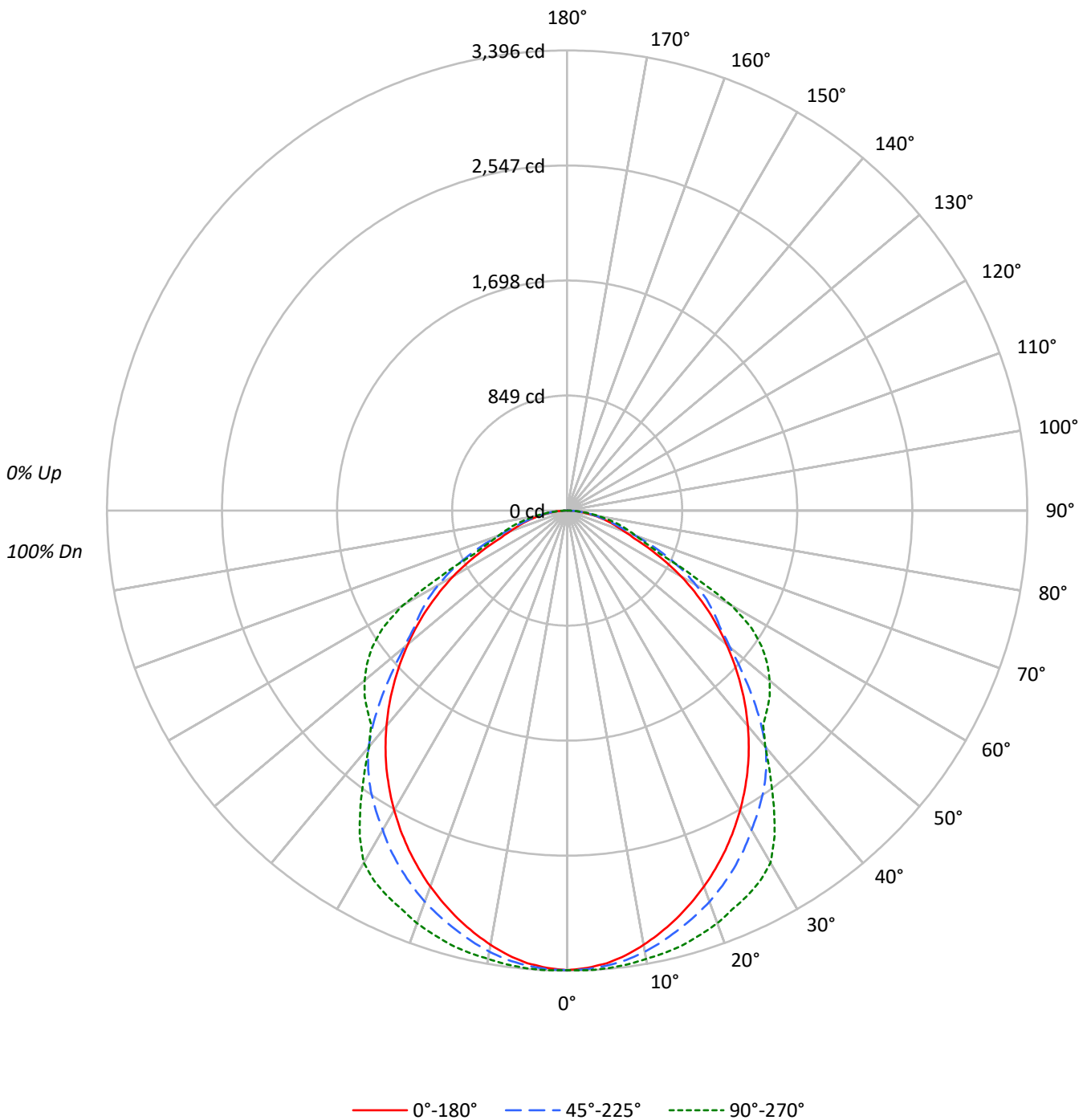
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8145.1 lumens
Efficiency: 72.7%
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.28 / 1.29
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 113
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



TEST NUMBER: 220P181
CATALOG NUMBER: 2EP3GX-432W26P

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	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	73
1	80	77	74	71	78	75	72	70	72	70	68	69	67	66	66	65	64	62
2	73	68	63	59	71	66	62	58	64	60	57	61	58	56	59	57	54	53
3	67	60	54	50	65	59	54	49	57	52	49	55	51	48	53	50	47	45
4	62	53	47	43	60	52	47	42	51	46	42	49	45	41	47	44	41	39
5	57	48	42	37	55	47	41	37	46	40	37	44	40	36	43	39	36	34
6	53	43	37	33	51	43	37	32	41	36	32	40	35	32	39	35	32	30
7	49	39	33	29	48	39	33	29	38	32	29	37	32	28	36	32	28	27
8	46	36	30	26	44	36	30	26	35	29	26	34	29	26	33	29	25	24
9	43	33	27	23	42	33	27	23	32	27	23	31	27	23	30	26	23	22
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5584	5614	5648
10°	5482	5570	5661
15°	5354	5493	5699
20°	5214	5424	5723
25°	5060	5331	5748
30°	4891	5215	5751
35°	4707	5118	5384
40°	4494	4943	4923
45°	4245	4524	4892
50°	3960	4047	5036
55°	3633	3833	5077
60°	3222	3644	4649
65°	2650	3251	2964
70°	2164	2547	2605
75°	2019	2167	2532
80°	1863	1978	2264
85°	1675	1751	1961



TEST NUMBER: 220P181

CATALOG NUMBER: 2EP3GX-432W26P

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	319.7	3.9	2.9	0°	3392	3392	3392	3392	3392	
10°-20°	904.7	11.1	8.1	5°	3353	3357	3371	3384	3391	317
20°-30°	1348.8	16.6	12.0	15°	3117	3141	3198	3277	3318	878
30°-40°	1560.6	19.2	13.9	25°	2764	2802	2912	3042	3140	1272
40°-50°	1486.1	18.2	13.3	35°	2324	2382	2527	2619	2658	1452
50°-60°	1272.4	15.6	11.4	45°	1809	1877	1928	1920	2085	1394
60°-70°	778.8	9.6	7.0	55°	1256	1330	1325	1565	1755	1121
70°-80°	367.3	4.5	3.3	65°	675	708	828	802	755	677
80°-90°	106.5	1.3	1.0	75°	315	319	338	374	395	335
90°-100°	0.0	0.0	0.0	85°	88	89	92	99	103	94
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°	2573.3	31.6	23.0	165°	0	0	0	0	0	0
0°-40°	4133.9	50.8	36.9	175°	0	0	0	0	0	0
0°-60°	6892.4	84.6	61.5	180°	0	0	0	0	0	0
0°-90°	8145.1	100.0	72.7							
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°	8145.1	100.0	72.7							



TEST NUMBER: 220P181

CATALOG NUMBER: 2EP3GX-432W26P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3392	3392	3392	3392	3392
2.5°	3379	3380	3387	3393	3396
5°	3353	3357	3371	3384	3391
7.5°	3311	3319	3345	3368	3380
10°	3254	3268	3306	3343	3360
12.5°	3189	3208	3256	3312	3342
15°	3117	3141	3198	3277	3318
17.5°	3038	3067	3138	3232	3280
20°	2953	2985	3072	3178	3241
22.5°	2861	2896	2996	3115	3186
25°	2764	2802	2912	3042	3140
27.5°	2661	2703	2823	2979	3083
30°	2553	2602	2722	2896	3002
32.5°	2441	2494	2626	2791	2849
35°	2324	2382	2527	2619	2658
37.5°	2202	2262	2412	2428	2462
40°	2075	2137	2282	2232	2273
42.5°	1944	2010	2111	2047	2141
45°	1809	1877	1928	1920	2085
47.5°	1672	1741	1742	1847	2027
50°	1534	1608	1568	1768	1951
52.5°	1398	1473	1425	1672	1863
55°	1256	1330	1325	1565	1755
57.5°	1113	1179	1219	1441	1614
60°	971	1020	1098	1293	1401
62.5°	822	862	970	1073	1051
65°	675	708	828	802	755
67.5°	535	572	682	603	620
70°	446	457	525	516	537
72.5°	379	385	413	441	465
75°	315	319	338	374	395
77.5°	254	257	270	296	313
80°	195	198	207	226	237
82.5°	140	142	148	160	168
85°	88	89	92	99	103
87.5°	38	39	40	43	45
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



TEST NUMBER: 220P181

CATALOG NUMBER: 2EP3GX-432W26P

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)