

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: 188P100

Luminaire Tested: **2EP3GX-432S36I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S36I-PAF
Description: 2 X 4 Recessed Troffer with a 3" deep 18 cell
semi-specular low iridescent parabolic louver.
Light Source: Four-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B432I120RH Electronic; L.O.B.F. = 89.5

Summary

Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 7773.9 lumens
Efficiency: 68.2%
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

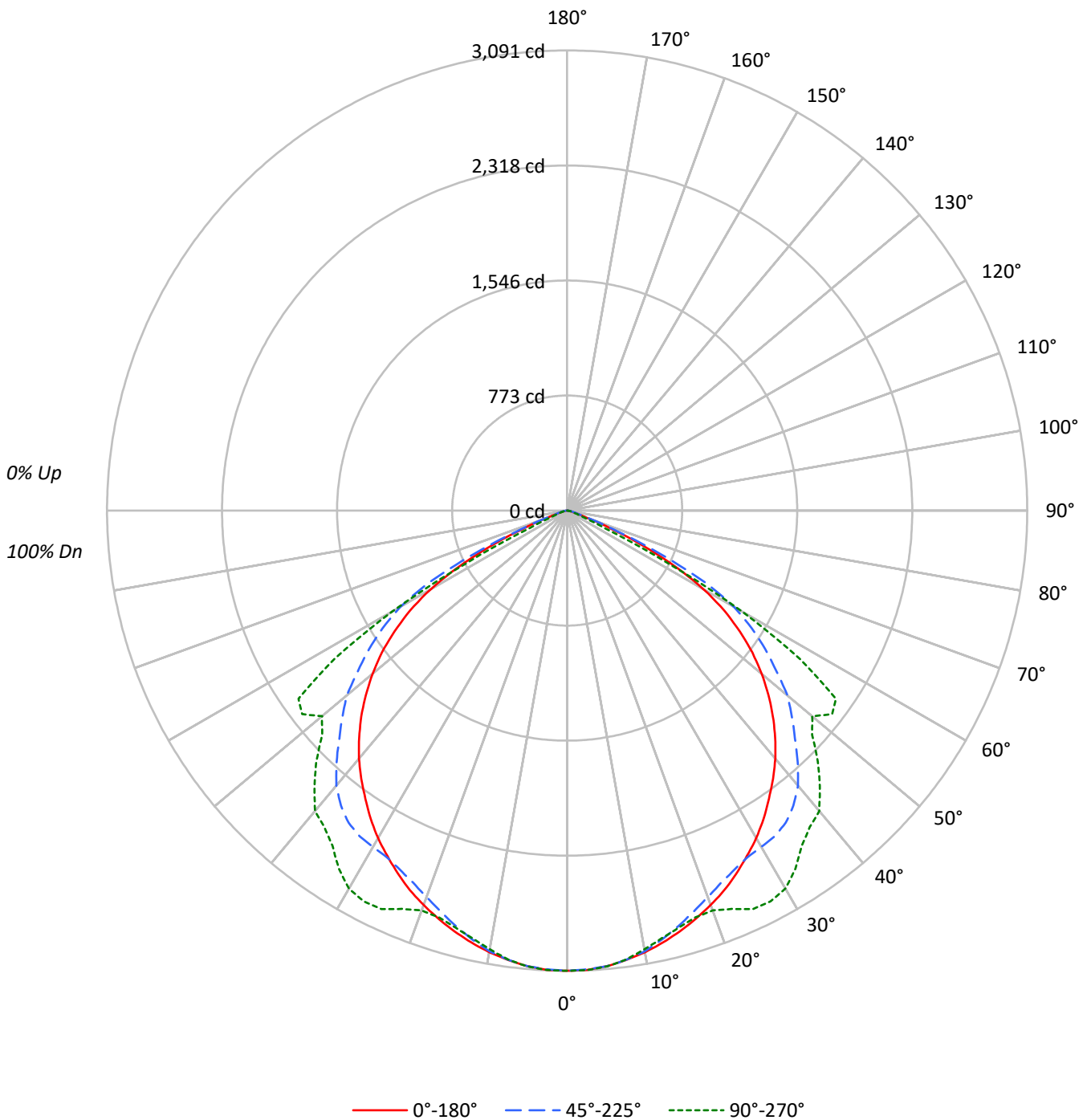
Input Watts (W): 111.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	76	73	70	68	74	71	69	67	69	67	65		66	64	63		64	62	61	60
2	70	65	61	57	68	63	60	57	61	58	55		59	56	54		57	55	53	52
3	64	57	52	49	62	56	52	48	54	51	47		53	49	46		51	48	46	44
4	59	51	46	42	57	50	45	41	49	44	41		47	43	40		46	42	40	38
5	54	46	40	36	53	45	40	36	44	39	35		42	38	35		41	38	35	33
6	50	41	36	31	49	41	35	31	40	35	31		38	34	31		37	34	31	29
7	46	37	32	28	45	37	32	28	36	31	27		35	31	27		34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25		32	28	24		31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22		29	25	22		29	25	22	21
10	38	29	24	20	37	29	23	20	28	23	20		27	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5131	5131	5131
5°	5119	5119	5122
10°	5077	5065	5043
15°	5028	4965	4984
20°	4980	4879	5049
25°	4927	4872	5409
30°	4869	4999	5620
35°	4788	5188	5569
40°	4713	5227	5708
45°	4589	5080	5592
50°	4408	4987	5550
55°	4101	4703	6376
60°	3526	4296	4515
65°	2262	2742	1088
70°	675	815	383
75°	282	359	244
80°	163	249	163
85°	95	133	95



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	290.9	3.7	2.6	0°	3091	3091	3091	3091	3091	
10°-20°	819.6	10.5	7.2	5°	3072	3069	3072	3071	3074	291
20°-30°	1265.8	16.3	11.1	15°	2926	2916	2889	2889	2900	826
30°-40°	1582.7	20.4	13.9	25°	2690	2650	2660	2839	2953	1240
40°-50°	1656.8	21.3	14.5	35°	2363	2315	2560	2693	2748	1479
50°-60°	1487.4	19.1	13.0	45°	1955	1973	2164	2292	2382	1505
60°-70°	598.0	7.7	5.2	55°	1417	1514	1625	1942	2203	1255
70°-80°	63.7	0.8	0.6	65°	576	640	698	426	277	571
80°-90°	8.9	0.1	0.1	75°	44	56	56	49	38	58
90°-100°	0.0	0.0	0.0	85°	5	6	7	7	5	7
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	2376.3	30.6	20.8	165°	0	0	0	0	0	0
0°-40°	3959.0	50.9	34.7	175°	0	0	0	0	0	0
0°-60°	7103.2	91.4	62.3	180°	0	0	0	0	0	0
0°-90°	7773.9	100.0	68.2							
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°	7773.9	100.0	68.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3091	3091	3091	3091	3091
2.5°	3088	3084	3084	3085	3089
5°	3072	3069	3072	3071	3074
7.5°	3045	3043	3043	3042	3041
10°	3012	3009	3005	2994	2992
12.5°	2972	2966	2950	2938	2942
15°	2926	2916	2889	2889	2900
17.5°	2875	2860	2824	2841	2865
20°	2819	2801	2762	2811	2858
22.5°	2760	2727	2705	2804	2896
25°	2690	2650	2660	2839	2953
27.5°	2616	2569	2624	2860	2959
30°	2540	2487	2608	2837	2932
32.5°	2456	2401	2594	2789	2853
35°	2363	2315	2560	2693	2748
37.5°	2271	2228	2497	2582	2679
40°	2175	2143	2412	2501	2634
42.5°	2068	2058	2293	2430	2512
45°	1955	1973	2164	2292	2382
47.5°	1834	1884	2048	2147	2231
50°	1707	1782	1931	2000	2149
52.5°	1569	1659	1771	1944	2244
55°	1417	1514	1625	1942	2203
57.5°	1251	1344	1470	1760	1852
60°	1062	1140	1294	1363	1360
62.5°	830	898	1045	900	754
65°	576	640	698	426	277
67.5°	319	390	373	166	118
70°	139	186	168	100	79
72.5°	71	90	82	70	55
75°	44	56	56	49	38
77.5°	28	37	39	34	26
80°	17	23	26	23	17
82.5°	10	14	16	14	11
85°	5	6	7	7	5
87.5°	1	2	2	2	1
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)