

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: 187P105

Luminaire Tested: **2EP3GX-3BX40W33P-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 187P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-3BX40W33P-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with a 3"
deep 9 cell white parabolic louver.
Light Source: Three - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Magnetek B340I120HP Electronic

Summary

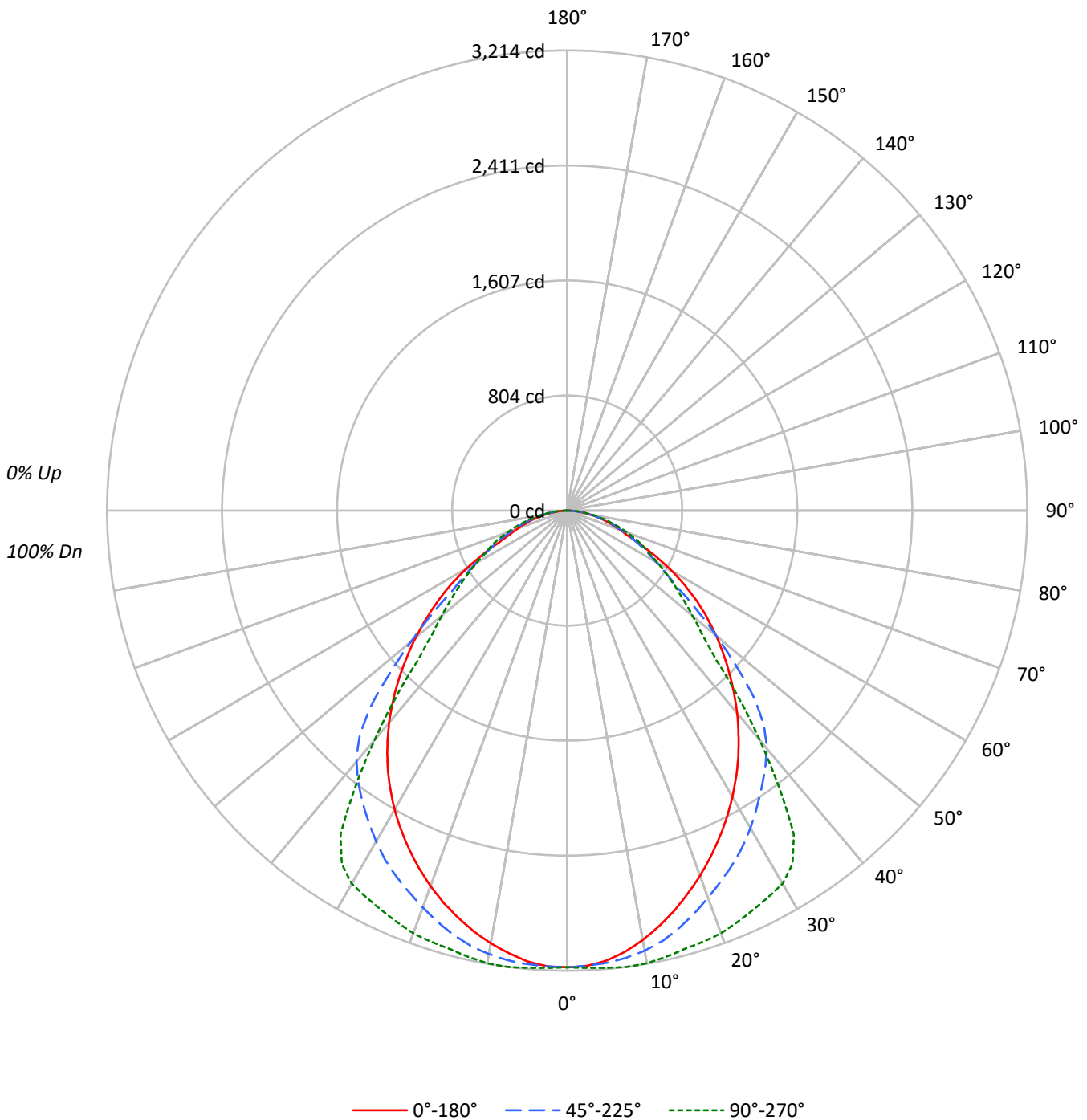
Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 7134.8 lumens
Efficiency: 75.5%
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.36 / 1.31
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 99.3
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								70								30								10								0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0												
RCR																																	
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76															
1	83	80	77	75	81	78	76	73	75	73	71	72	70	69	69	68	67	65															
2	76	71	66	62	75	70	65	62	67	63	60	64	62	59	62	60	58	56															
3	70	63	58	53	69	62	57	53	60	55	52	58	54	51	56	53	50	49															
4	65	57	51	46	63	56	50	46	54	49	45	52	48	45	51	47	44	42															
5	60	51	45	40	59	50	44	40	49	44	40	47	43	39	46	42	39	37															
6	56	46	40	36	54	46	40	36	44	39	35	43	39	35	42	38	35	33															
7	52	42	36	32	51	42	36	32	41	35	32	40	35	31	39	34	31	30															
8	49	39	33	29	47	38	33	29	37	32	28	36	32	28	36	31	28	27															
9	45	36	30	26	44	35	30	26	35	29	26	34	29	26	33	29	26	24															
10	43	33	28	24	42	33	27	24	32	27	24	31	27	23	31	26	23	22															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11347	11347	11347
5°	11265	11447	11287
10°	10998	11598	11085
15°	10650	11674	10838
20°	10270	11893	10561
25°	9883	12073	10248
30°	9480	12355	9899
35°	9054	11980	9488
40°	8576	9719	8985
45°	8054	7390	8355
50°	7509	6325	7642
55°	6877	5693	6834
60°	6011	5186	5791
65°	4789	4915	4393
70°	4066	4607	3806
75°	3779	4219	3477
80°	3503	3851	3093
85°	3224	3387	2571



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	302.0	4.2	3.2	0°	3190	3190	3190	3190	3190	
10°-20°	858.8	12.0	9.1	5°	3155	3171	3206	3180	3161	298
20°-30°	1290.4	18.1	13.7	15°	2892	3019	3170	3067	2943	813
30°-40°	1509.7	21.2	16.0	25°	2518	2730	3076	2821	2611	1159
40°-50°	1300.1	18.2	13.8	35°	2085	2367	2759	2490	2185	1302
50°-60°	918.1	12.9	9.7	45°	1601	1845	1469	1946	1661	1235
60°-70°	567.9	8.0	6.0	55°	1109	950	918	982	1102	987
70°-80°	301.4	4.2	3.2	65°	569	550	584	555	522	580
80°-90°	86.4	1.2	0.9	75°	275	283	307	280	253	292
90°-100°	0.0	0.0	0.0	85°	79	76	83	74	63	83
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°	2451.1	34.4	25.9	165°	0	0	0	0	0	0
0°-40°	3960.8	55.5	41.9	175°	0	0	0	0	0	0
0°-60°	6179.0	86.6	65.4	180°	0	0	0	0	0	0
0°-90°	7134.8	100.0	75.5							
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°	7134.8	100.0	75.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3190	3190	3190	3190	3190	3190	3190	3190	3190
2.5°	3183	3178	3182	3191	3197	3193	3186	3185	3186
5°	3155	3152	3171	3193	3206	3198	3180	3168	3161
7.5°	3107	3111	3151	3193	3214	3201	3168	3136	3118
10°	3045	3058	3121	3183	3211	3197	3146	3095	3069
12.5°	2972	2994	3078	3154	3192	3173	3113	3048	3010
15°	2892	2925	3019	3117	3170	3138	3067	2993	2943
17.5°	2804	2848	2950	3079	3157	3103	3011	2932	2871
20°	2713	2764	2877	3045	3142	3073	2949	2864	2790
22.5°	2618	2676	2803	3000	3110	3036	2885	2786	2703
25°	2518	2580	2730	2940	3076	2982	2821	2699	2611
27.5°	2415	2479	2650	2883	3043	2932	2752	2606	2513
30°	2308	2373	2560	2825	3008	2880	2668	2505	2410
32.5°	2198	2264	2464	2761	2928	2822	2579	2397	2301
35°	2085	2151	2367	2651	2759	2713	2490	2283	2185
37.5°	1966	2037	2271	2453	2428	2516	2395	2164	2063
40°	1847	1919	2169	2136	2093	2190	2289	2040	1935
42.5°	1724	1798	2034	1835	1774	1880	2148	1915	1800
45°	1601	1673	1845	1550	1469	1586	1946	1781	1661
47.5°	1478	1546	1592	1288	1276	1317	1678	1642	1521
50°	1357	1417	1359	1123	1143	1147	1423	1502	1381
52.5°	1234	1288	1143	1002	1025	1021	1191	1359	1241
55°	1109	1158	950	896	918	912	982	1216	1102
57.5°	977	1026	818	799	820	811	843	1065	962
60°	845	880	718	711	729	720	735	903	814
62.5°	705	722	630	629	646	635	640	732	665
65°	569	573	550	556	584	560	555	573	522
67.5°	457	460	476	499	517	499	478	454	429
70°	391	387	407	429	443	429	406	381	366
72.5°	331	327	343	361	372	361	341	321	308
75°	275	271	283	298	307	297	280	265	253
77.5°	222	217	226	238	246	238	224	211	201
80°	171	166	174	182	188	182	171	162	151
82.5°	124	117	123	130	133	129	121	114	106
85°	79	72	76	81	83	79	74	70	63
87.5°	37	32	33	34	36	34	31	30	24
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)