

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: ITL50334

Luminaire Tested: **2EP3GX-3BX40ST36MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL50334
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-3BX40ST36MI
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
TWO FABRICATED WHITE PAINTED METAL BALLAST COVERS, FABRICATED
METAL LOUVER WITH TWO PREMIUM SPECULAR PARABOLIC PIECES PARALLEL
WITH LAMPS AND SEVEN DIFFUSE VANES PERPENDICULAR TO LAMPS.
Light Source: THREE 40-WATT SINGLE ENDED TWIN TUBE FLUORESCENTS, G.E.
F40BX/SPX35/IS. LAMPS HORIZONTAL WITH TUBES HORIZONTAL.
Ballast/Driver: ONE MAGNETEK C340I120RH, L.O.B.F. = 101.2%. ONE SYLVANIA
QT 1X40/120 DL, L.O.B.F. = 97.8%. WEIGHTED AVERAGE
L.O.B.F. = 100.4% (USED TO CALCULATE L.E.R. AND C.O.L.) *

Summary

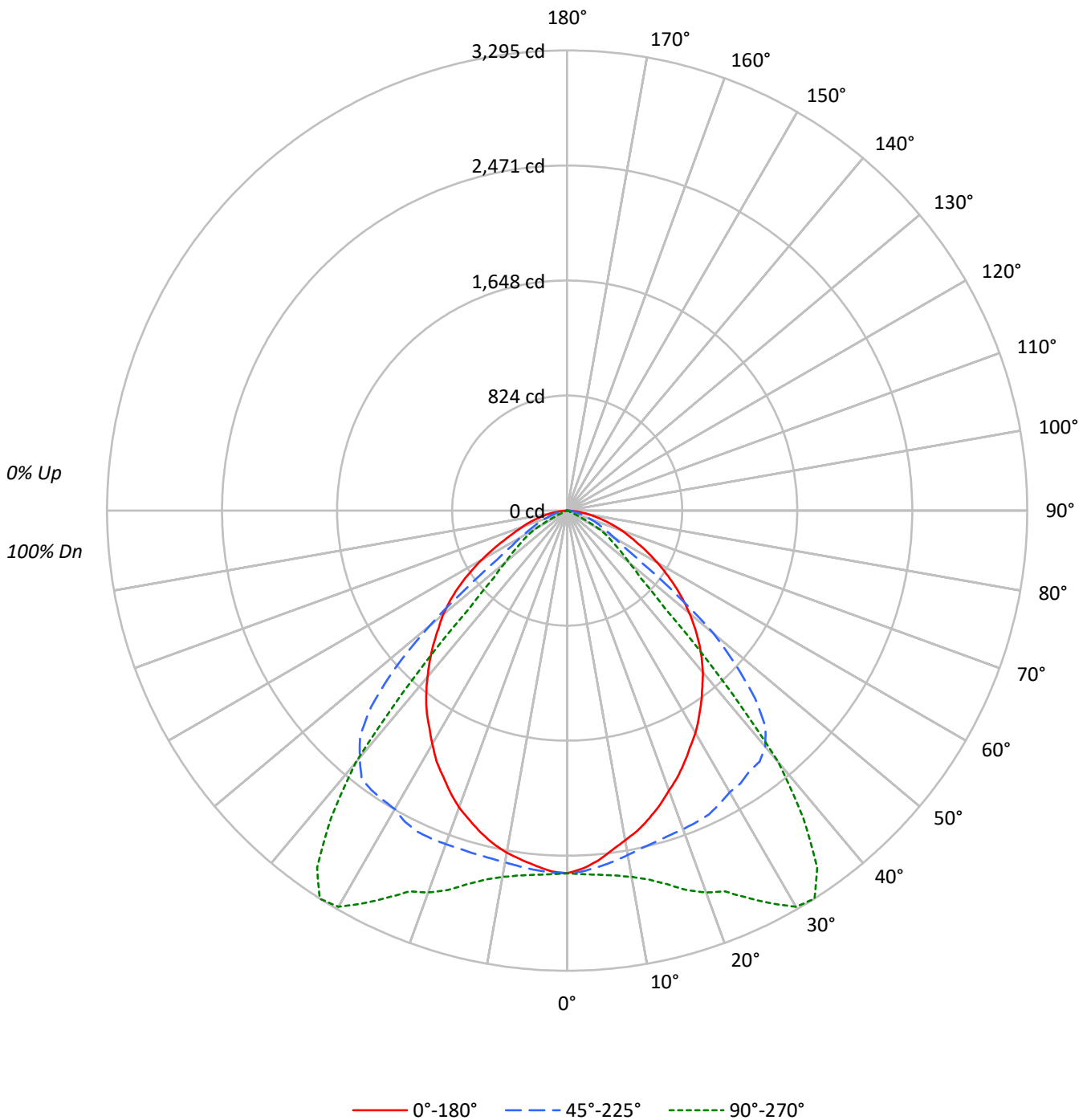
Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 5935.3 lumens
Efficiency: 62.8%
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.57 / 1.42
Luminous Opening: Rectangular (W 1.7' x L: 1.74' x H: 0')
CIE Type: Direct

Input Watts (W): 108.3
Input Voltage (V): NR
Input Current (A_{in}): 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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	70	67	65	63	68	66	64	62	63	62	60	61	60	58	59	58	57	55
2	65	60	57	54	63	59	56	53	57	54	52	55	53	51	53	51	50	48
3	60	54	50	46	58	53	49	46	51	48	45	50	47	44	48	46	44	42
4	55	49	44	40	54	48	43	40	46	43	39	45	42	39	44	41	38	37
5	51	44	39	35	50	43	39	35	42	38	35	41	37	34	40	37	34	33
6	48	40	35	31	46	39	35	31	38	34	31	37	34	31	36	33	30	29
7	44	37	32	28	43	36	31	28	35	31	28	34	30	28	33	30	27	26
8	41	33	29	25	40	33	28	25	32	28	25	32	28	25	31	27	25	24
9	39	31	26	23	38	30	26	23	30	26	23	29	25	23	29	25	22	21
10	36	29	24	21	36	28	24	21	28	23	21	27	23	21	27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9407	9407	9407
5°	9152	9516	9287
10°	8813	9795	9151
15°	8546	10388	8955
20°	8222	11217	8723
25°	7946	12226	8397
30°	7688	13698	8077
35°	7402	13806	7756
40°	7150	11112	7353
45°	6834	5056	6931
50°	6436	3268	6537
55°	5955	2558	5955
60°	5404	1971	5122
65°	4800	394	4183
70°	4385	222	3622
75°	3849	168	3149
80°	3296	125	2607
85°	2452	0	1787



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	244.8	4.1	2.6	0°	2597	2597	2597	2597	2597	
10°-20°	715.9	12.1	7.6	5°	2517	2561	2617	2584	2554	236
20°-30°	1154.9	19.5	12.2	15°	2279	2455	2770	2545	2388	641
30°-40°	1475.0	24.9	15.6	25°	1988	2401	3059	2537	2101	916
40°-50°	1185.4	20.0	12.5	35°	1674	2276	3122	2443	1754	1047
50°-60°	667.2	11.2	7.1	45°	1334	1903	987	1985	1353	1027
60°-70°	325.3	5.5	3.4	55°	943	658	405	610	943	843
70°-80°	135.8	2.3	1.4	65°	560	270	46	257	488	563
80°-90°	31.0	0.5	0.3	75°	275	110	12	96	225	294
90°-100°	0.0	0.0	0.0	85°	59	20	0	16	43	73
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°	2115.6	35.6	22.4							
0°-40°	3590.6	60.5	38.0							
0°-60°	5443.2	91.7	57.6							
0°-90°	5935.3	100.0	62.8							
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°	5935.3	100.0	62.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2597	2597	2597	2597	2597	2597	2597	2597	2597
2.5°	2566	2575	2585	2601	2606	2602	2595	2589	2586
5°	2517	2536	2561	2599	2617	2608	2584	2566	2554
7.5°	2453	2489	2535	2601	2635	2614	2571	2537	2521
10°	2396	2434	2504	2604	2663	2625	2558	2509	2488
12.5°	2344	2385	2474	2616	2706	2644	2549	2477	2443
15°	2279	2332	2455	2643	2770	2680	2545	2436	2388
17.5°	2209	2279	2438	2681	2849	2730	2541	2392	2324
20°	2133	2218	2427	2716	2910	2783	2541	2339	2263
22.5°	2066	2155	2416	2729	2951	2814	2542	2279	2185
25°	1988	2095	2401	2762	3059	2836	2537	2216	2101
27.5°	1908	2031	2366	2802	3172	2918	2513	2146	2025
30°	1838	1966	2328	2863	3275	2989	2468	2082	1931
32.5°	1756	1902	2314	2903	3295	3034	2456	2010	1838
35°	1674	1836	2276	2871	3122	3002	2443	1939	1754
37.5°	1590	1771	2265	2668	2779	2804	2418	1863	1658
40°	1512	1692	2206	2350	2350	2467	2310	1780	1555
42.5°	1426	1616	2102	1998	1626	2038	2195	1689	1455
45°	1334	1524	1903	1409	987	1423	1985	1591	1353
47.5°	1240	1450	1638	875	715	909	1674	1506	1250
50°	1142	1362	1368	635	580	663	1289	1407	1160
52.5°	1045	1260	980	513	488	523	890	1304	1053
55°	943	1141	658	425	405	443	610	1165	943
57.5°	842	1015	477	347	341	366	468	1029	824
60°	746	890	389	290	272	308	383	867	707
62.5°	652	737	321	238	145	237	315	678	594
65°	560	580	270	149	46	149	257	502	488
67.5°	484	447	222	90	27	98	211	391	406
70°	414	367	175	76	21	81	160	321	342
72.5°	342	299	142	67	16	67	125	257	283
75°	275	233	110	57	12	55	96	197	225
77.5°	213	173	81	46	7	42	71	146	170
80°	158	128	60	34	6	31	52	109	125
82.5°	102	87	39	22	3	20	32	70	82
85°	59	48	20	10	0	8	16	37	43
87.5°	27	21	8	4	0	3	5	14	16
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)