

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: ITL48348

Luminaire Tested: **2EP3GAX-2U6T8S23I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL48348  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GAX-2U6T8S23I  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE  
METAL PARABOLIC 6-CELL LOUVER.  
Light Source: TWO 31-WATT T-8 U-LAMP FLUORESCENTS, PHILIPS FB31T8/TL741/6,  
HORIZONTAL POSITION.  
Ballast/Driver: MAGNETEK B332I120RH

**Summary**

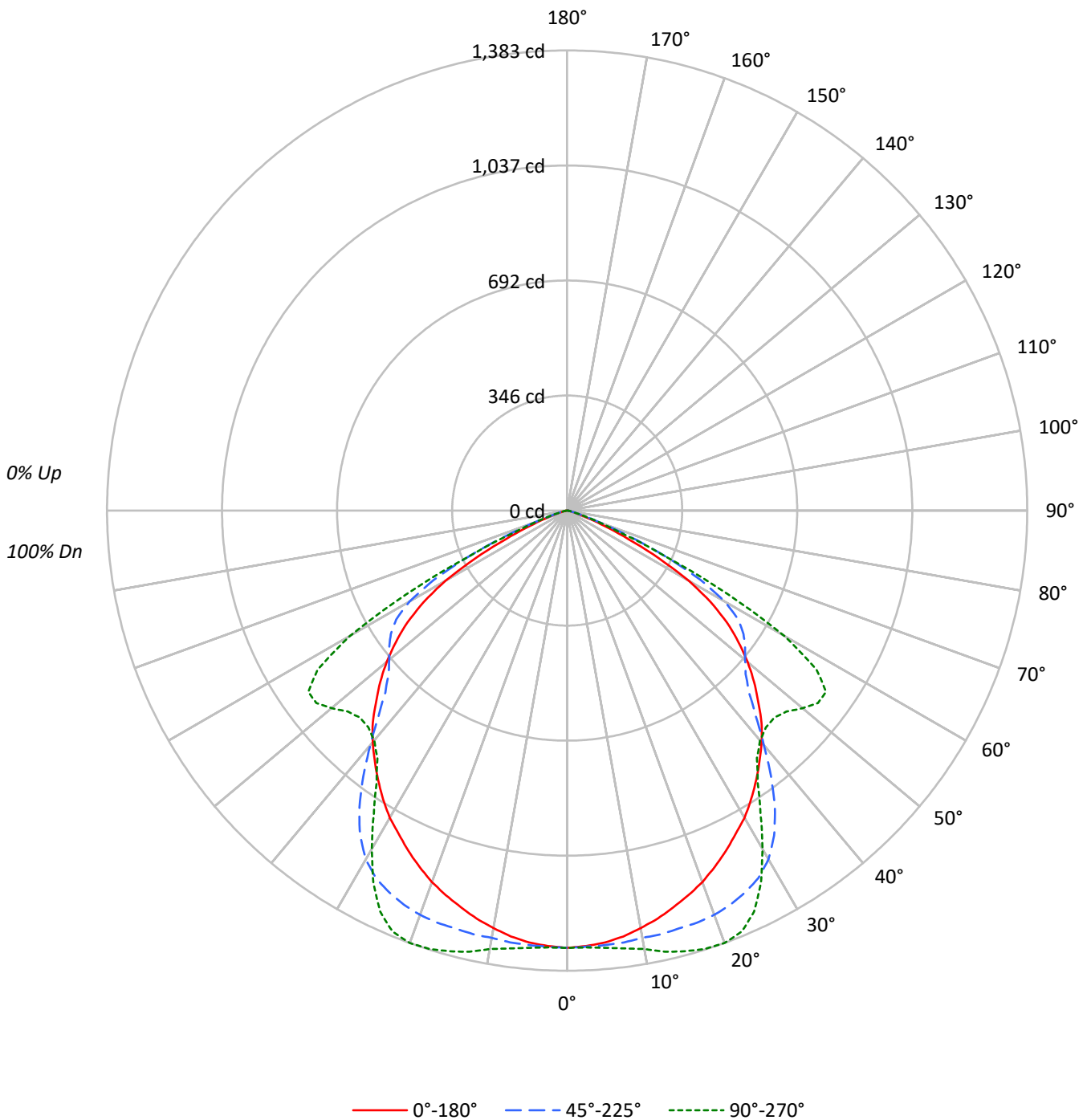
Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3316.4 lumens  
Efficiency: 63.8%  
Efficacy: 52.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.31  
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: ITL48348

CATALOG NUMBER: 2EP3GAX-2U6T8S231

**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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	68	66	64	69	67	65	63	64	62	61		62	60	59		59	58	57	56
2	65	60	57	53	63	59	56	53	57	54	52		55	53	50		53	51	49	48
3	60	54	49	45	58	53	48	45	51	47	44		49	46	43		48	45	43	41
4	55	48	43	39	53	47	42	38	45	41	38		44	40	37		43	40	37	36
5	51	43	38	34	49	42	37	33	41	36	33		40	36	33		39	35	32	31
6	47	39	33	29	46	38	33	29	37	32	29		36	32	29		35	31	29	27
7	43	35	30	26	42	35	30	26	34	29	26		33	29	26		32	28	25	24
8	40	32	27	23	39	32	27	23	31	26	23		30	26	23		29	26	23	22
9	38	29	24	21	37	29	24	21	28	24	21		28	24	21		27	23	21	20
10	35	27	22	19	35	27	22	19	26	22	19		26	22	19		25	21	19	18

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

	0°	45°	90°
0°	4660	4660	4660
5°	4639	4667	4696
10°	4588	4696	4818
15°	4531	4773	5034
20°	4483	4880	5219
25°	4418	4954	5204
30°	4365	4955	4808
35°	4286	4715	4321
40°	4208	4259	4176
45°	4072	3877	4413
50°	3906	3851	5098
55°	3623	4000	5874
60°	2993	3880	5348
65°	1712	2744	2744
70°	674	1058	1037
75°	288	343	356
80°	143	184	204
85°	163	163	163



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	125.1	3.8	2.4	0°	1314	1314	1314	1314	1314	
10°-20°	368.5	11.1	7.1	5°	1303	1308	1311	1319	1319	123
20°-30°	571.7	17.2	11.0	15°	1234	1254	1300	1352	1371	348
30°-40°	649.4	19.6	12.5	25°	1129	1177	1266	1317	1330	520
40°-50°	644.2	19.4	12.4	35°	990	1062	1089	1004	998	619
50°-60°	618.7	18.7	11.9	45°	812	876	773	815	880	627
60°-70°	299.4	9.0	5.8	55°	586	595	647	820	950	516
70°-80°	34.8	1.0	0.7	65°	204	231	327	339	327	216
80°-90°	4.8	0.1	0.1	75°	21	22	25	26	26	27
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	4
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°	1065.3	32.1	20.5							
0°-40°	1714.6	51.7	33.0							
0°-60°	2977.5	89.8	57.3							
0°-90°	3316.4	100.0	63.8							
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°	3316.4	100.0	63.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1314	1314	1314	1314	1314
2.5°	1310	1313	1312	1316	1314
5°	1303	1308	1311	1319	1319
7.5°	1291	1298	1309	1323	1327
10°	1274	1284	1304	1330	1338
12.5°	1256	1272	1304	1344	1358
15°	1234	1254	1300	1352	1371
17.5°	1212	1237	1299	1357	1381
20°	1188	1218	1293	1356	1383
22.5°	1159	1198	1282	1347	1370
25°	1129	1177	1266	1317	1330
27.5°	1096	1154	1245	1264	1261
30°	1066	1128	1210	1189	1174
32.5°	1029	1098	1158	1098	1082
35°	990	1062	1089	1004	998
37.5°	950	1025	1006	923	937
40°	909	983	920	865	902
42.5°	865	933	839	833	884
45°	812	876	773	815	880
47.5°	762	813	727	810	894
50°	708	744	698	816	924
52.5°	649	671	674	827	950
55°	586	595	647	820	950
57.5°	511	515	609	778	889
60°	422	431	547	680	754
62.5°	311	338	452	528	545
65°	204	231	327	339	327
67.5°	120	138	201	184	171
70°	65	74	102	96	100
72.5°	34	39	45	53	52
75°	21	22	25	26	26
77.5°	13	14	14	16	15
80°	7	9	9	10	10
82.5°	5	7	7	8	7
85°	4	4	4	4	4
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)