

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: ITL48345

Luminaire Tested: **2EP3GX-2U6T8S33I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL48345  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-2U6T8S33I  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,  
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE  
METAL PARABOLIC 9-CELL LOUVER.  
Light Source: TWO 31-WATT T-8 U-LAMP FLUORESCENTS, PHILIPS FB31T8/TL741/6,  
HORIZONTAL POSITION.  
Ballast/Driver: MAGNETEK B332I120RH

**Summary**

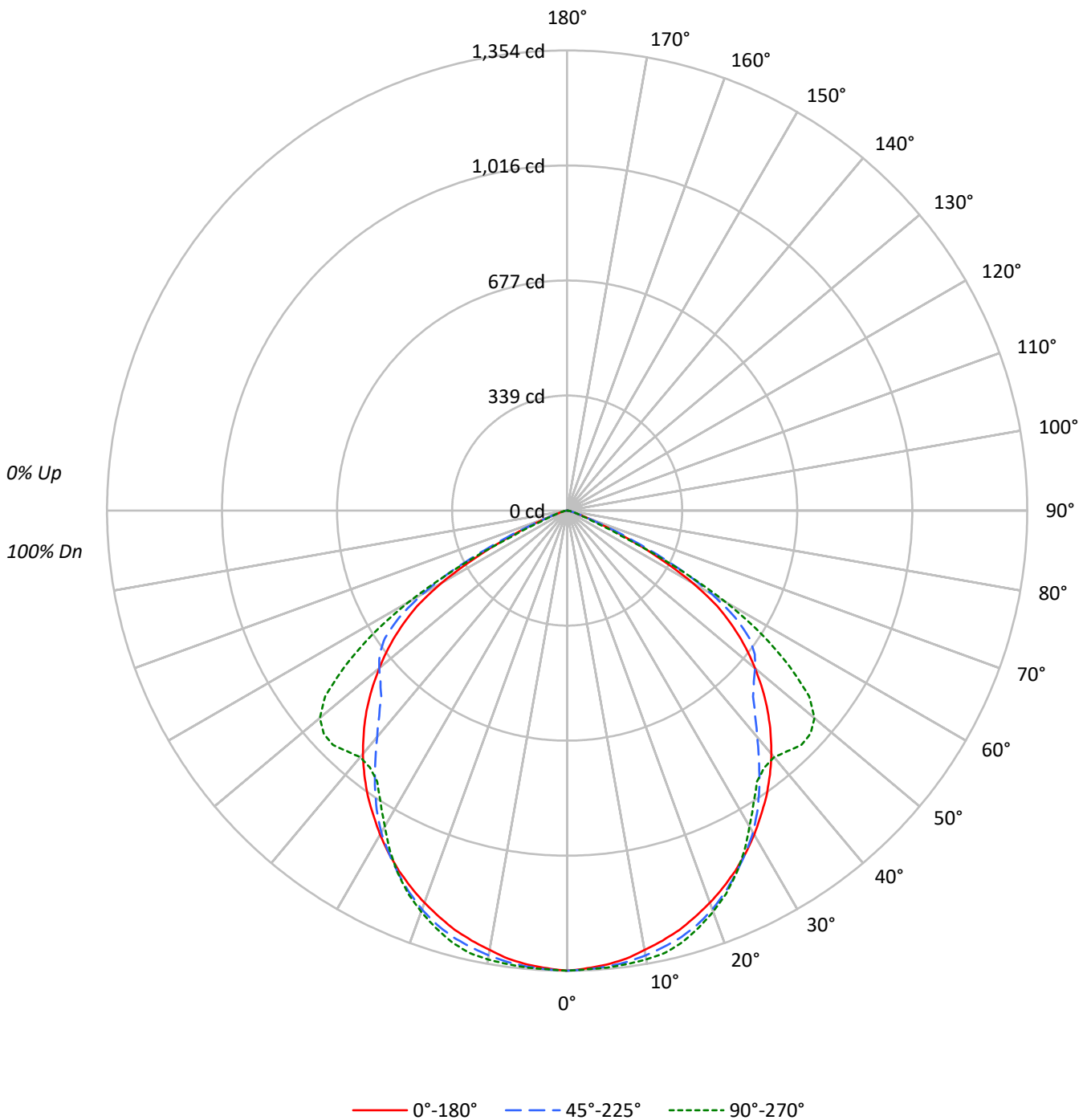
Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3148.8 lumens  
Efficiency: 60.6%  
Efficacy: 49.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.28  
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.1  
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



TEST NUMBER: ITL48345  
CATALOG NUMBER: 2EP3GX-2U6T8S33I

### Luminous Intensity Polar Plot





TEST NUMBER: ITL48345

CATALOG NUMBER: 2EP3GX-2U6T8S33I

**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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	61
1	67	65	63	61	66	63	62	60	61	59	58	59	57	56	57	56	55	53
2	62	58	54	51	60	57	53	51	55	52	49	53	50	48	51	49	47	46
3	57	51	47	44	56	50	46	43	49	45	42	47	44	42	46	43	41	40
4	52	46	41	37	51	45	41	37	44	40	37	42	39	36	41	38	36	35
5	48	41	36	33	47	41	36	32	39	35	32	38	35	32	37	34	31	30
6	45	37	32	29	44	37	32	28	36	31	28	35	31	28	34	30	28	27
7	42	34	29	25	41	33	29	25	32	28	25	32	28	25	31	27	25	24
8	39	31	26	23	38	31	26	23	30	26	23	29	25	22	28	25	22	21
9	36	28	24	20	35	28	24	20	27	23	20	27	23	20	26	23	20	19
10	34	26	22	19	33	26	22	19	25	21	18	25	21	18	24	21	18	17

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

	0°	45°	90°
0°	4802	4802	4802
5°	4774	4795	4806
10°	4728	4786	4829
15°	4688	4769	4824
20°	4634	4714	4740
25°	4578	4606	4609
30°	4509	4480	4394
35°	4429	4269	4217
40°	4329	4028	4384
45°	4188	3882	4890
50°	3983	3983	5241
55°	3691	4050	4934
60°	3043	3490	3837
65°	1703	1989	1452
70°	601	612	498
75°	247	260	288
80°	143	143	184
85°	81	81	81



TEST NUMBER: ITL48345

CATALOG NUMBER: 2EP3GX-2U6T8S33I

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	128.0	4.1	2.5	0°	1354	1354	1354	1354	1354	
10°-20°	365.4	11.6	7.0	5°	1341	1345	1347	1350	1350	127
20°-30°	541.1	17.2	10.4	15°	1277	1284	1299	1311	1314	360
30°-40°	622.7	19.8	12.0	25°	1170	1182	1177	1175	1178	539
40°-50°	652.6	20.7	12.6	35°	1023	1027	986	959	974	639
50°-60°	581.5	18.5	11.2	45°	835	815	774	885	975	642
60°-70°	229.1	7.3	4.4	55°	597	568	655	745	798	527
70°-80°	24.9	0.8	0.5	65°	203	213	237	206	173	215
80°-90°	3.4	0.1	0.1	75°	18	19	19	20	21	24
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	3
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°	1034.5	32.9	19.9							
0°-40°	1657.2	52.6	31.9							
0°-60°	2891.3	91.8	55.6							
0°-90°	3148.8	100.0	60.6							
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°	3148.8	100.0	60.6							



TEST NUMBER: ITL48345

CATALOG NUMBER: 2EP3GX-2U6T8S33I

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354	1354	1354	1354	1354
2.5°	1348	1351	1351	1353	1351
5°	1341	1345	1347	1350	1350
7.5°	1330	1334	1340	1346	1346
10°	1313	1320	1329	1338	1341
12.5°	1296	1304	1315	1329	1333
15°	1277	1284	1299	1311	1314
17.5°	1253	1263	1277	1285	1287
20°	1228	1238	1249	1251	1256
22.5°	1200	1212	1215	1215	1221
25°	1170	1182	1177	1175	1178
27.5°	1137	1149	1136	1125	1129
30°	1101	1113	1094	1071	1073
32.5°	1062	1072	1043	1012	1021
35°	1023	1027	986	959	974
37.5°	980	978	927	912	953
40°	935	926	870	889	947
42.5°	886	873	819	881	960
45°	835	815	774	885	975
47.5°	780	757	745	886	971
50°	722	695	722	864	950
52.5°	662	632	696	823	897
55°	597	568	655	745	798
57.5°	524	493	587	632	682
60°	429	415	492	504	541
62.5°	314	318	375	364	362
65°	203	213	237	206	173
67.5°	115	126	128	89	77
70°	58	65	59	48	48
72.5°	30	33	30	31	31
75°	18	19	19	20	21
77.5°	11	12	12	13	14
80°	7	7	7	9	9
82.5°	4	4	5	5	5
85°	2	2	2	2	2
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)