

ROOM DATA SURVEY

Always A Pioneer, Always Ahead



UTeM

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

**PEJABAT KETUA PEGAWAI MAKLUMAT (CIO) / PUSAT PERKHIDMATAN
PENGETAHUAN DAN KOMUNIKASI (PPPK), (ARAS ATAS), UTeM**

Prepared by:

JK Pengurusan Tenaga, Pejabat Ketua Pegawai Maklumat

ROOM DATA SURVEY

PEJABAT KETUA PEGAWAI MAKLUMAT (CIO) / PUSAT PERKHIDMATAN PENGETAHUAN DAN KOMUNIKASI (PPPK)

Disediakan oleh:

(ROSZAIMAH BINTI WAHID – 17 OGOS 2022)

Disahkan oleh:

(PROFESOR DR. MOHD KHANAPI BIN ABD. GHANI – 17 OGOS 2022)

INTRODUCTION

- The RDS Audit Team was carried-out the measurements for each floor to check the comforts level of the **CIO's Office / PPPK (ARAS ATAS)'s** buildings.
- The summary of temperatures, relative humidity, carbon dioxide, and luminance level are illustrated as follows.

The findings for the temperature room data survey for CIO's Office (ARAS ATAS) are shown in Figure 1-2 and Table 1

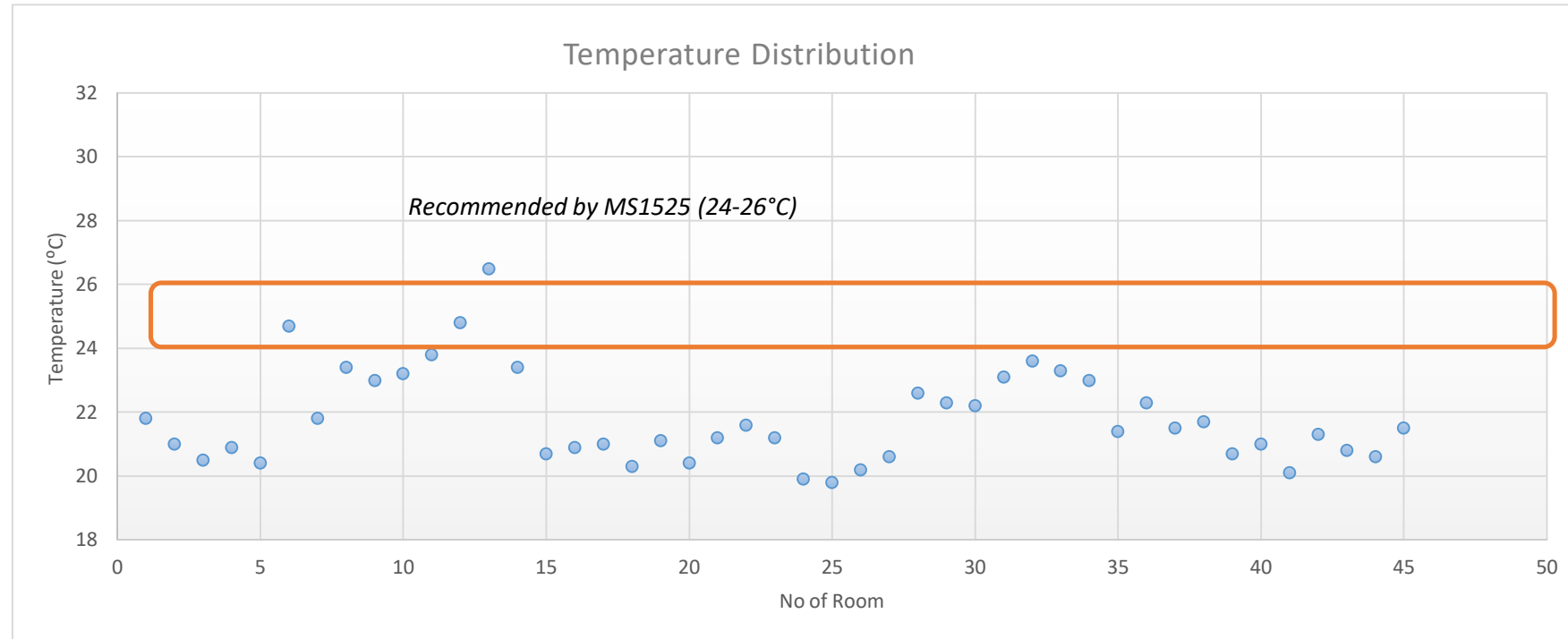


Figure 1: Room temperature survey at CIO's Office (ARAS ATAS)

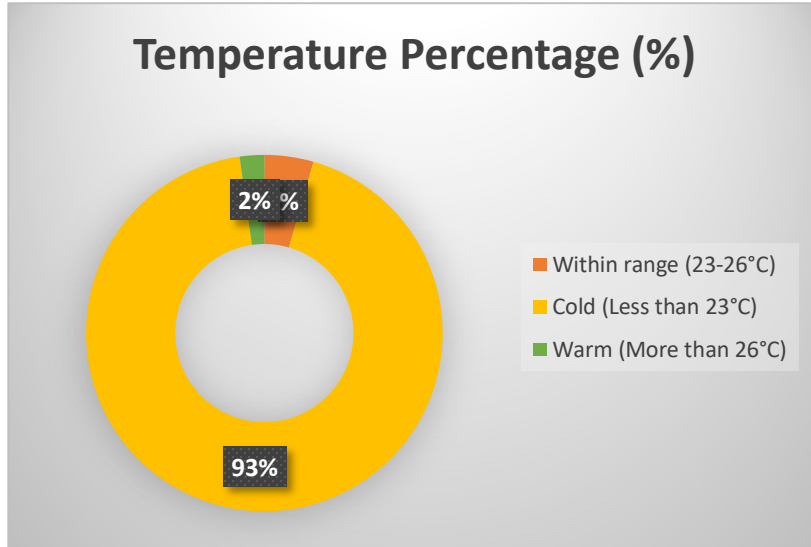


Figure 2: Summary in percentage for room temperature survey at CIO's Office (ARAS ATAS)

Category	No of Room	Percentage
Within range (23-26°C)	2	4%
Cold (Less than 23°C)	42	93%
Warm (More than 26°C)	1	2%
Total	45	100%

Table 1: Summary of room temperature survey at CIO's Office (ARAS ATAS)

The findings from room temperature survey are summarized as follows:

- i. 2 @ 4% rooms are within the recommended level (MS1525);
- ii. 42@ 93% rooms are cold level;
- iii. 1 @ 2% room are warm level

Room Relative Humidity

The findings for the relative humidity room data survey for CIO's Office (ARAS ATAS) are shown in Figure 3-4 and Table 2

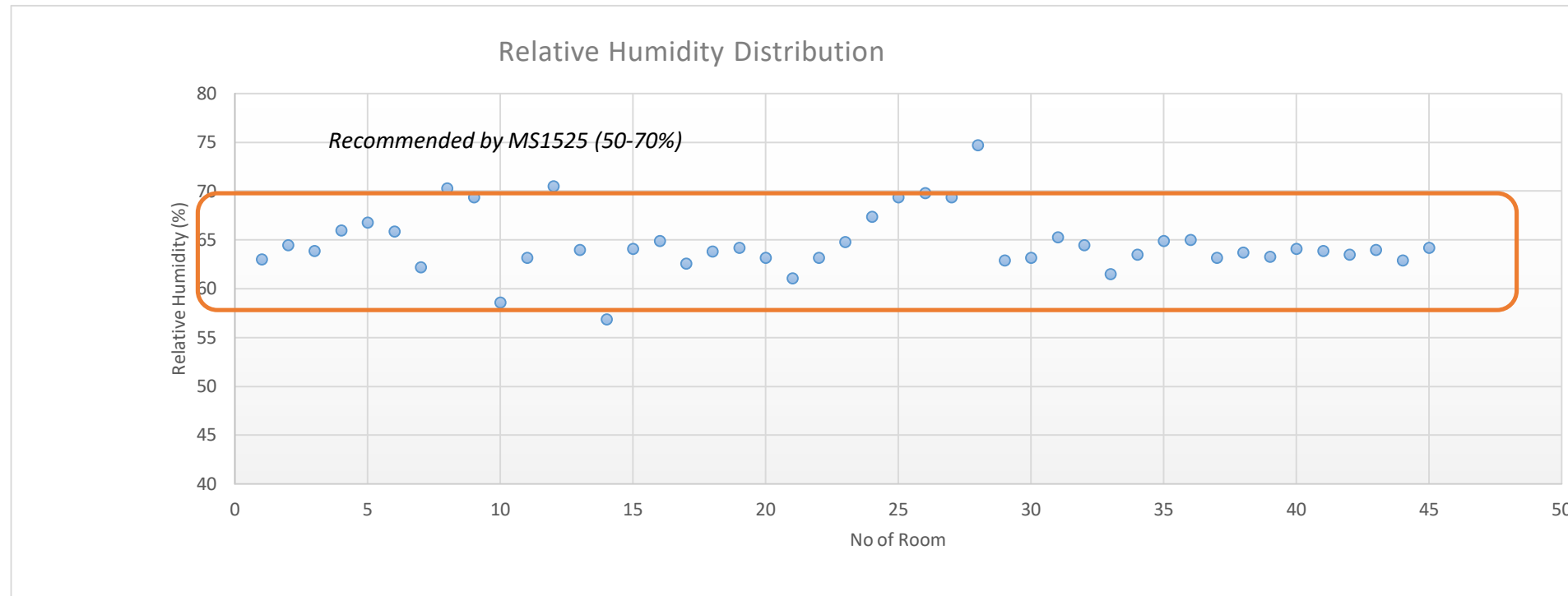


Figure 3: Room relative humidity survey at CIO's Office (ARAS ATAS)

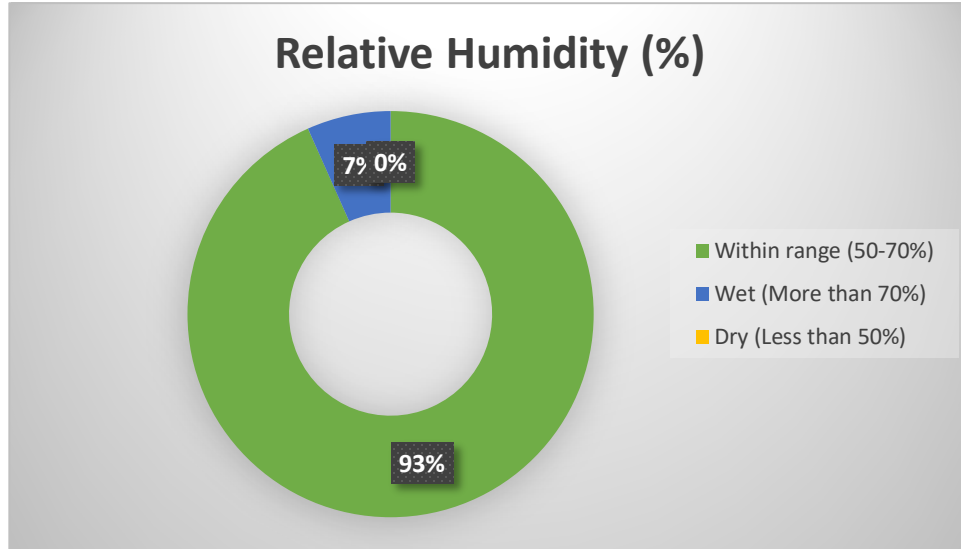


Figure 4: Summary in percentage for room relative humidity survey at CIO's Office (ARAS ATAS)

Category	No of Room	Percentage
Within range (50-70%)	42	93%
Wet (More than 70%)	3	7%
Dry (Less than 50%)	0	0%
Total	45	100%

Table 2: Summary of room relative humidity survey at CIO's Office (ARAS ATAS)

The findings from room relative humidity survey are summarized as follows:

- i. 42 @ 93% rooms are within the recommended category (MS1525);
- ii. 3 @ 7% rooms are wet level;
- iii. 0 @ 0% rooms are dry levels

Room Carbon Dioxide

The findings for the carbon dioxide room data survey for CIO's Office (ARAS ATAS) are shown in Figure 5-6 and Table 3

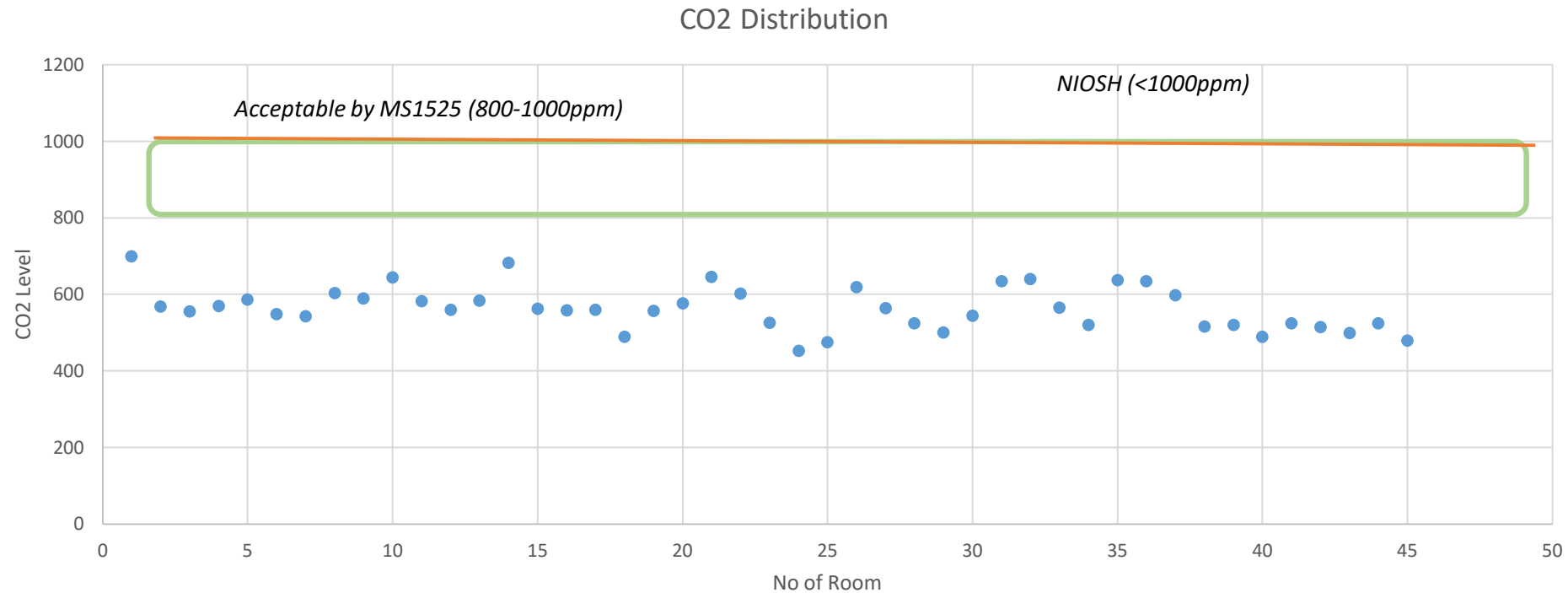


Figure 5: Room carbon dioxide survey at CIO's Office (ARAS ATAS)

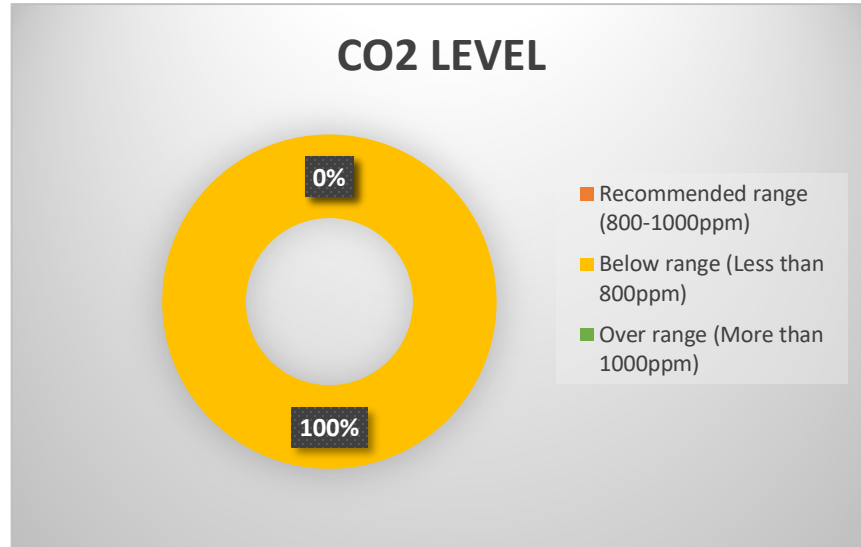


Figure 6: Summary in percentage for room carbon dioxide survey at CIO's Office (ARAS ATAS)

Category	No of Room	Percentage
Recommended range (800-1000ppm)	0	0%
Below range (Less than 800ppm)	45	100%
Over range (More than 1000ppm)	0	0%
Total	45	100%

Table 3: Summary of room carbon dioxide survey at CIO's Office (ARAS ATAS)

The findings from room carbon dioxide survey are summarized as follows:

- i. 0 @ 0% rooms are within the recommended value category (MS1525);
- ii. 45 @ 100% rooms are below range;
- iii. 0 @ 0% rooms are over recommended category;

The findings for the luminance room data survey for CIO’s Office (ARAS ATAS) are shown in Figure 7-8 and Table 4

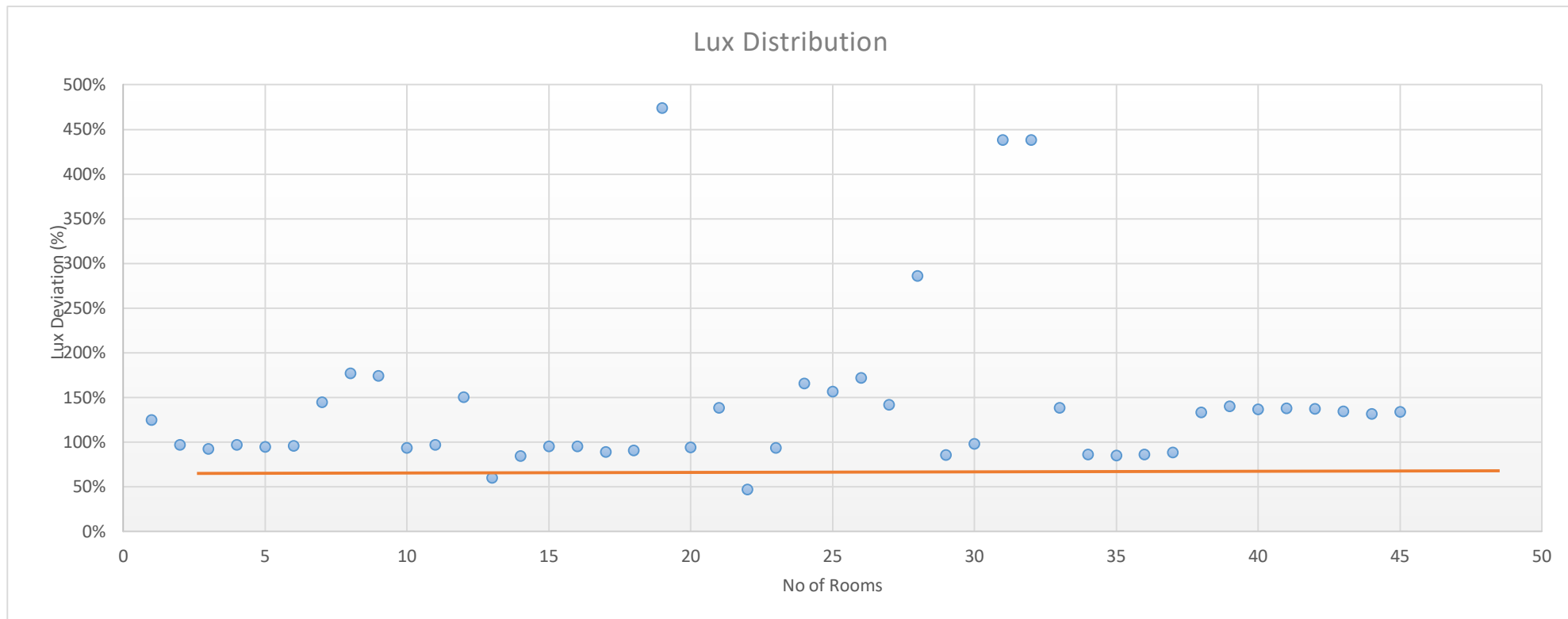


Figure 7: Room luminance survey at CIO’s Office (ARAS ATAS)

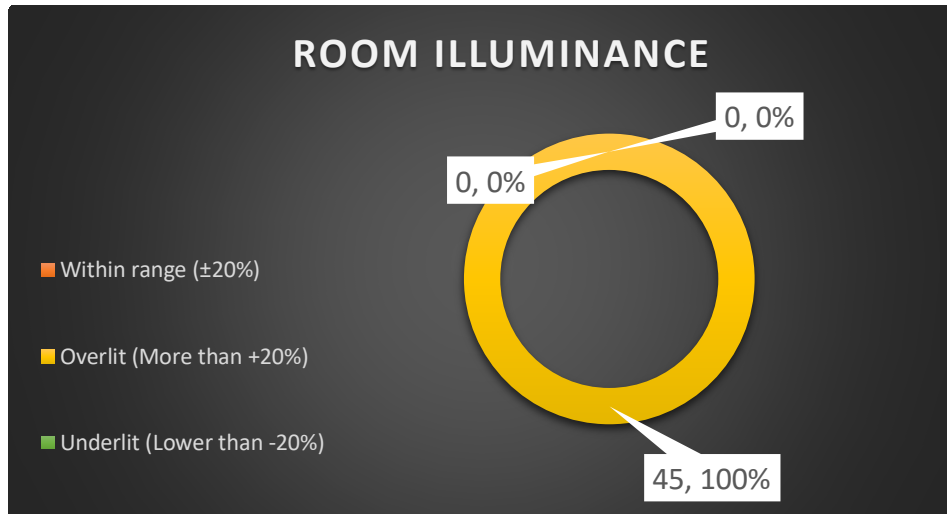


Figure 8: Summary in percentage for room luminance survey at PPPK (ARAS ATAS)

Category	No of Room	Percentage
Within range ($\pm 20\%$)	0	0%
Overlit (More than +20%)	45	100%
Underlit (Lower than -20%)	0	0%
Total	45	100%

Table 4:
Summary of room luminance survey at PPPK (ARAS ATAS)

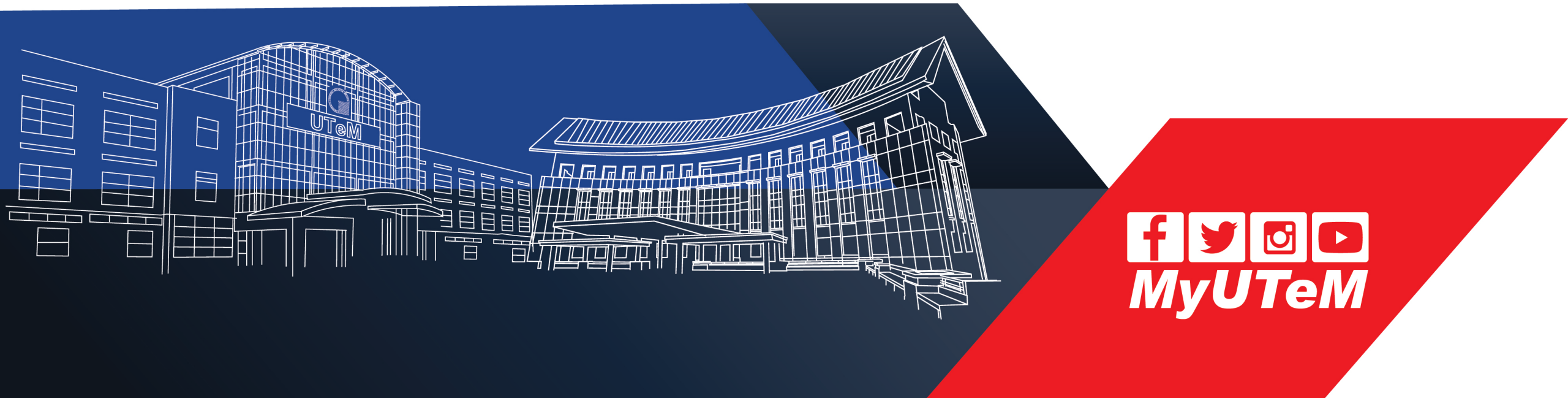
The findings from the room luminance survey are summarized as follows:

- 0 @ 0% rooms are within the recommended range category (MS1525);
- 45 @ 100% rooms are over range category.
- 0 @ 0% rooms are under range category.

ROOM DATA COLLECTION: Temperature, Relative Humidity, Luminance, and CO2 Analysis

NO	BILIK	AREM m ²	ILLUMINANCE			TEMP	RH	CO ²	QTY OK	LAMPU KUASA (WATT)	BIL	PERALATAN LAIN		REMARK		
			P1	P2	P3							JUMLAH	NAMA ALAT		KUASA (WATT)	BIL
BAHAGIAN PENTADBIRAN																
1	BILIK MESYUARAT	80.50	549	722	756	675.67	21.8	57.4	699	OK	28	24	PC COMPACT FLUORESCENT LAMP LCD MICROFON KIPAS PC LAMPU PENDEK KIPAS PRINTER	300 13 282 0.29 55 300 18 55 50	1 16 1 23 1 1 1 1	
2	BILIK PEGAWAI 1	11.40	580	546	648	591.33	21.0	64.5	568	OK	28	12	PC KIPAS PRINTER	300 55 50	1 1 1	
3	BILIK PEGAWAI 2	11.40	550	541	644	578.33	20.5	63.0	556	OK	36	4	PC PRINTER	300 50	1 1	
4	BILIK PEGAWAI 3	11.40	565	520	689	591.33	20.9	66.0	569	OK	36	4	PC PRINTER	300 50	1 1	
5	BILIK PEGAWAI 4	11.40	539	536	678	584.33	20.4	66.8	587	OK	36	4	PC PRINTER	300 50	1 1	
6	BILIK PEGAWAI 5	11.35	548	560	659	589.00	24.7	65.9	548	OK	28	4	PC PRINTER KIPAS	300 50 75	1 1 1	
7	BILIK FAIL	16.53	599	498	423	490.00	21.8	62.2	543	OK	28	6	PC MESIN SHREDDER	300 350	1 1	
8	SURAU LELAKI	13.65	1048	1063	986	1032.33	23.4	70.3	603	OK	28	4	KIPAS	75	1	
9	SURAU PEREMPUAN	13.65	1039	1054	979	1024.00	23.0	69.4	589	OK	28	4	KIPAS	75	1	
10	STOR ALAT TULIS	8.13	437	631	678	580.00	23.2	58.6	645	OK	28	2	PC	300	1	
11	TANDAS LELAKI	12.56	572	679	525	592.00	23.8	63.2	582	OK	14	6	PETI SEJUK	222	1	
12	PANTRI	8.43	893	725	639	752.33	24.8	70.5	560	OK	28	4	COWAY	660	1	
13	BILIK UTILITI	3.57	529	498	476	501.00	26.5	64.0	583	OK	28	2	PC KIPAS	300 75	1 1	
14	BILIK SUMBER	46.08	466	693	543	554.00	23.4	56.9	682	OK	28	20	MESIN FOTOSTAT PC KIPAS	686 300 75	2 1 1	
15	BILIK PEGAWAI 6	11.35	578	542	642	587.33	20.7	64.1	562	OK	28	4	PC PRINTER KIPAS	300 50 75	1 1 1	
16	BILIK PEGAWAI 7	11.35	577	540	645	587.33	20.9	64.9	558	OK	28	4	PC KIPAS PRINTER	300 75 50	1 1 1	
17	BILIK PEGAWAI 8	11.35	581	539	586	568.67	21.0	62.6	560	OK	28	4	PC KIPAS PRINTER	300 75 50	1 1 1	
18	BILIK PEGAWAI 9	11.35	569	590	598	572.33	20.3	63.8	489	OK	28	4	PC KIPAS PRINTER	300 75 50	1 1 1	
19	BILIK PEGAWAI 10	11.35	565	528	630	574.33	21.1	64.2	557	OK	28	4	PC KIPAS PRINTER	300 75 50	1 1 1	
20	BILIK PEGAWAI 11	11.35	583	546	639	589.33	20.4	63.5	577	OK	28	4	PC KIPAS PRINTER	300 75 50	1 1 1	
21	BILIK PEGAWAI	29.69	720	865	699	761.33	21.2	61.1	646	OK	28	12	PC KIPAS	300 75	1 1	
22	RUANG PENTADBIRAN	97.40	437	273	335	348.33	21.6	63.2	602	OK	14	4	MESIN FOTOSTAT MESIN LIMINITE	686 620	1 1	
23	BILIK PENGARAH	18.52	502	606	702	603.33	21.2	64.8	526	OK	28	8	PC KIPAS	300 55	1 1	
24	BILIK LATHAN 1	120.98	508	578	517	534.33	19.9	67.4	453	OK	28	48	PC LCD SPEAKER AC (CEILING) PRINTER	300 282 20 1118.25 50	1 1 1 3 1	
25	RUANG MAKAN	85.89	658	928	875	820.33	19.8	69.4	475	OK	28	28	PC	300	1	
26	BILIK LATHAN 2	120.00	937	968	826	910.33	20.2	69.8	619	OK	28	72	PC	300	1	
BAHAGIAN CRIM, PENDAFAR (ZON KEWANGAN) DAN PENYULUHAN																
18	RUANG PEJABAT CRIM	193.91	849	615	715	726.33	20.6	69.4	564	OK	28	80	PC TV (75 INCHI) TV COWAY MESIN FOTOSTAT	300 374 185 660 686	13 1 1 1 1	
19	BILIK MESYUARAT UTAMA CRIM	22.72	998	1002	1474	1158.00	22.6	74.7	524	OK	28	16	PC KIPAS AIR PURIFIER	282 75 50	1 1 1	
20	BILIK PENGARAH	29.50	587	531	554	557.33	22.3	62.9	501	OK	28	12	PC PRINTER	300 50	1 1	PC TIDAK DIGUNAKAN
21	BILIK PENOLONG PENDAFTAR	10.44	650	594	541	595.00	22.2	63.2	544	OK	28	4	PC	300	1	
23	BILIK PENOLONG PENDAFTAR KANAN	15.57	1315	1018	2514	1615.67	23.1	65.3	634	OK	28	8	PC	300	1	
24	BILIK PENOLONG PENDAFTAR KANAN	18.62	1320	1030	2498	1616.00	23.6	64.5	640	OK	28	8	PC	300	1	
25	BILIK TIMBALAN PENGARAH	21.77	122	987	1040	716.33	23.3	61.5	566	OK	28	8	PC KIPAS	300 55	2 1	
BAHAGIAN UCC DAN PROGRAMMAR																
27	BILIK TIMBALAN PENGARAH	17.89	520	540	619	559.67	23	63.5	520	OK	28	12	PC	300	1	
28	PANTRI	16.99	519	538	610	555.67	21.4	64.9	638	OK	28	8	PETI SEJUK	222	1	
29	STOR ALAT TULIS	15.41	533	549	598	560.00	22.3	65	634	OK	28	8	PC	300	1	
30	BILIK PENOLONG PENDAFTAR KANAN	15.87	529	556	614	566.33	21.5	63.2	598	OK	28	8	PC MESIN FOTOSTAT PETI SEJUK COWAY PC KIPAS	300 300 222 660 300 75	1 2 1 2 1 1	2 LAMPU ROSAK
31	RUANG PROGRAMMAR	253.45	678	787	636	700.33	21.7	63.7	636	OK	28	126	PC MESIN FOTOSTAT PETI SEJUK COWAY PC KIPAS PRINTER	300 300 222 660 300 75 50	2 1 1 2 1 1 1	
32	PEGAWAI TEKNOLOGI MAKLUMAT 1	14.5	734	606	821	720.33	20.7	63.3	516	OK	28	8	PC PRINTER	300 50	1 1	
33	PEGAWAI TEKNOLOGI MAKLUMAT 2	14.5	729	589	815	711.00	21	64.1	520	OK	28	8	PC	300	1	
34	PEGAWAI TEKNOLOGI MAKLUMAT 3	14.5	731	599	814	714.67	20.1	63.9	489	OK	28	8	PC PRINTER	300 50	1 1	
35	PEGAWAI TEKNOLOGI MAKLUMAT 4	14.5	725	578	833	712.00	21.3	63.5	524	OK	28	8	PC	300	1	
35	PEGAWAI TEKNOLOGI MAKLUMAT 5	14.5	745	556	810	703.67	20.8	64	514	OK	28	8	PC	300	1	
36	PEGAWAI TEKNOLOGI MAKLUMAT 6	14.5	729	580	778	695.67	20.6	62.9	499	OK	28	8	PC	300	1	
37	PEGAWAI TEKNOLOGI MAKLUMAT 7	14.5	730	579	798	702.33	21.5	64.2	479	OK	28	8	PC PRINTER	300 50	1 1	

Thank You



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