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**LOG OF MEETING**  
**DIRECTORATE FOR ENGINEERING SCIENCES**

**SUBJECT:** Incandescent Torchiere Lamps

**DATE OF MEETING:** November 27, 2000

**PLACE OF MEETING:** CPSC Headquarters, East West Towers, Room 612

**LOG ENTRY SOURCE:** Anna Luo, ESEE *AL*

**CPSC ATTENDEES:**

Anna L. Luo, ESEE  
William H. King, Jr., ES  
Erlinda Edwards, ESEE  
Dean LaRue, ESEE

**NON-CPSC ATTENDEES:**

Thomas L. Wollan, Underwriters Laboratories (UL)  
John Drengenberg, UL  
Dave Dini, UL  
Dave Dubiel, UL  
Gordon Gillerman, UL

**SUMMARY OF MEETING:**

UL staff shared with CPSC staff information on a new UL test apparatus called Lamp Temperature Measurement Apparatus (LTMA), which is similar to that described in CSA C22.2 No 84-95, to measure the envelope surface temperatures of an incandescent bulb with medium screw base for general lighting (See attached UL data results.)

CPSC staff shared with UL concerns regarding the potential for ignition of combustible materials that could come in contact with the hot glass bulb envelope in an incandescent torchiere floor lamp. The risk of fire with these incandescent lamps is similar to that presented by tubular halogen torchiere lamps (prior to the June 1, 1999 upgraded requirements) where the incandescent bulb is 150 watts or higher based on CPSC staff test results.

The meeting discussion centered on the approach for a proposal to upgrade UL 153, *Portable Electric Lamps*, for incandescent torchiere lamps. UL will consider this matter further and get back to CPSC staff.

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Lamp	Style	Wattage	Mfr.	Description	Coating	Sample	Measured Wattage (W) at 120 V	Temperature Rise (°C)				
								LTMA †			Envelope Surface ‡	
								Array #1	Array #2	Array #3	Side	Top
1	A	150	A	Rough Service	Frosted	A	149	15	119	71	163	233
						B	149	16	122	73	110	236
2	A	150	B	Sparkling Clear	Clear	A	146	15	80	78	104	248
						B	146	16	92	81	110	236
3	A	50/100/150	C	Soft White	Frosted	A	146	12	90	73	120	248
						B	146	14	100	73	117	257
						C	149	14	94	70	123	255
4	A	50/100/150	B	Soft White	Frosted	A	163	15	87	72	127	253
						B	158	15	90	72	126	243
						C	156	15	87	74	124	251
5	A	50/100/150	A	Soft White	Frosted	A	158	14	82	84	132	202
						B	156	15	87	88	130	208
						C	154	16	83	76	119	219
6	A	50/100/150	D	Soft White	Frosted	A	156	15	88	72	131	214
						B	156	16	83	77	129	203
						C	154	16	81	67	131	218
7	A	50/100/150	B	Directed Light	Frosted	A	156	23	96	79	142	294
						B	156	25	98	80	156	302
						C	156	23	89	82	142	297

† LTMA - Lamp Temperature measuring apparatus similar to that described in CSA C22.2 No 84-95.  
 ‡ LTMA temperature arrays positioned 1 inch from lamp glass envelope. Lamps positioned base down.  
 † - Lamp glass envelope surface temperature measured using No. 30 AWG thermocouple.

**Incandescent Torchere Lamp Tests With Fire Indicators**

Test Number	Lamp	Fire Indicator Material	Test Duration	Results and Comments
1	#7	black terry cloth, 14 in. square	15 min	Glowing hole scorched through cloth, but no open flame or fire.
1A	same as 1	same as 1	..	After 15 minutes of exposure from Test 1, an artificial draft was created with a fan that was concentrated towards the cloth. The black terry cloth did then ignite into open flame.
2	#7	single sheet of newspaper	- 2 min	After about 2 minutes a hole scorched through the paper, but no open flame or fire.
3	#7	20 layer cheesecloth per UL153	20 min	Hole scorched through 12 layers of cheesecloth, but no open flame or fire.
4	#5	20 layer cheesecloth per UL153	20 min	No layers of the cheesecloth had scorched through
5	#7	tissue paper	15 min	No hole had scorched through of the tissue paper.
6	120W flood	20 layer cheesecloth per UL153	20 min	Hole scorched through 7 layers of cheesecloth, but no open flame or fire.

/cpsclamp