

## TLC 60 / 120



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## 1. Description

The TLC series of Color Assessment Cabinets are suitable for all industries and applications where there is a need to maintain color consistency and quality eg Automotive, Ceramics, Cosmetics, Foodstuffs, Footwear, Furniture, Knitwear, Leather, Ophthalmics, Dyeing, Packaging, Printing, Inks and Textiles.

Since different light sources have different radiant energy, they display slightly different colours when reflected from a surface. With regards to color management within a production environment, the operator comparing the color between the standard and the sample might be working in an alternative lighting environment to that being used by the client / recipient. This can result in the client complaining about the colour difference and possibly rejecting the goods which can have a negative effect on the suppliers' reputation.

To resolve this problem, it is best to always match the color under the same light source. For example, international practice suggests using Artificial Daylight D65 as the standard light source to measure colour.

The TLC series supports D65, TL84, CWF, UV, F and A light sources to further minimize the opportunity for metamerism.

## 2. Lamp Cabinet Performance

1. Artificial daylight as acknowledged by CIE, 6500K color temperature.
2. Lighting scope: 750-3200 Luxes.
3. Background color of light sources is Neutral Grey for absorbance. When using the lighting cabinet, prevent outer light from

projecting on the article being measured. Do not place any other articles, other to those being measured, in the cabinet.

4. Carrying out metamerism tests: the cabinet's microcomputer enables you to switch between lights sources very quickly, allowing the measurement of objects under different light sources very easily. Try to prevent any flashing when switching light sources.
5. Correctly record the usage of each light source. The D65 standard lamp especially should be replaced after 2,000 hours of use to ensure no errors occur from over-use.
6. The UV light source should be used for checking articles containing fluorescent or whitening dye or used to add UV to the D45 light source.
7. Shop light source: many clients require alternative light sources to be used the qualify the colors or article to be sold in shops with artificial lights. For example, USA clients tend towards CWF where European and Japanese clients usually prefer TL84.

### **3. Operation Instructions**

1. Connect one end of the power source to the socket at the rear of the cabinet and the other to an electricity supply (this must comply to the specifications of the cabinet). The display will indicate that power is on.
2. Press the "ON/OFF" key once. The Timing will display the total service time of the cabinet.
3. Press the D65 key to light the D65 lamp. The Timing will display the total service time of the D65 lamp. This applies to all the respective light source keys.
4. Two light two or more light sources, simply press the respective keys.
5. Place the object to be measured at the centre of the bottom of the cabinet towards the back. When comparing two or more

objects, do not overlap them. Put them side by side in the cabinet.

6. View the article per Figure 1. When the light is projected on to the article at a right angle, it should be views at 45°.
  7. Power off the cabinet by pressing the ON/OFF key. If you are not using the cabinet for a while, it is recommended to turn it off.
  8. Per Figure 2, installing a new lamp. Follow the instructions noted on the bottom of the lamp and calculate time from zero as follows:
    - a) light up the new lamp only\*
    - b) take a small screwdriver and insert into the central hole of CLR. Gently press the key for a moment. The timing of the lamps not lit up will not be zeroed.
- \* Note: Only press the CLR key when replacing a lamp.

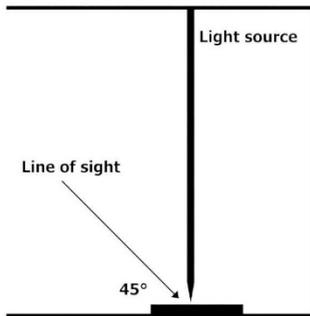


Figure 1

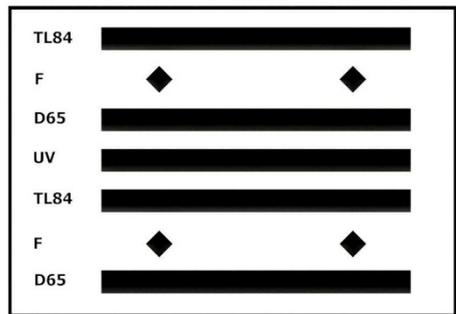


Figure 2

## 4. Electrical Requirements

Power Supply: AC 220V, 50Hz

Power: Less than 300W

## 5. Maintenance

### 1. How can I extend the lamp-life?

The lamp-life is determined by the actual usage time. If you need to use the cabinet several times within an hour, it is recommended to not turn off the cabinet (powering on the cabinet is generally equal to using a lamp for one hour).

### 2. How can I buy a new lamp or other special light sources?

The lamps used in the lighting cabinet are certified, specialised lamps and different to those available commercially. Always buy replacements from a specialised dealer. The standard fittings are D65, TL84, CWF, UV and F light sources. Other imported sources are also available for D75, D50, D35, TL83, U30, A and HOR.

### 3. How do I clean the Lighting Cabinet?

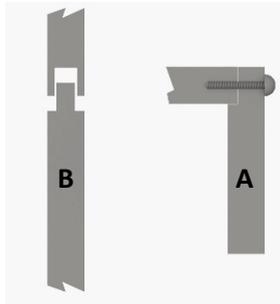
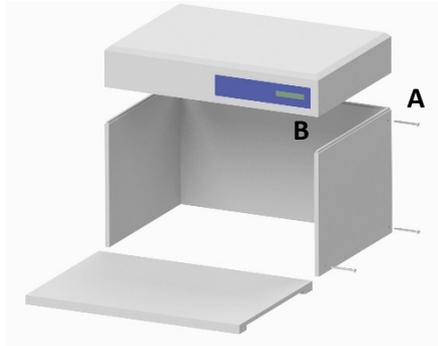
If the internal walls are dirty, clean with a soft, white and moistened cloth. Do not use sharp tools or chemicals to clean. These will damage the absorbance layer inside the cabinet.

## 6. Warranty

1. The lighting cabinet has a warranty year (assuming no careless damage or over-extended use of lights).

2. The cabinet should be replaced if the internal walls are soiled and cannot be cleaned. The cabinet should also be replaced if the lamp usage has been over-extended or the ends are blackened.

## 7. Assembly Instructions



### The Cabinet consists of 5 component parts:

- 1 x Base
- 1 x Back
- 2 x Sides
- 1 x Canopy

1. Position and screw the pre-drilled sides to the edges of the back using the self-tapping cup-screws provided. Ensure that the rear edges of the sides line up with the back – See diagram A.
2. Slide the base into position.
3. Place the canopy on the top edge of the back and sides, tongue and groove – See diagram B.

### IMPORTANT

As a safety precaution, the lighting cabinet should be properly earthed.

## 6. Sales Offices

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