SPECIFICATION SHEET

Customer:

Product: CC22148

Model: 2.2 x 148 | 0.286/0.283

Specifications

1. Available Range. The specifications available to CCFL unit listed on page 1.
2. Product Construction.

Item No.	Name	Requirements	Remark
1	Dimension	Lamp Shape: Straight	Naked lamp
		Dia: Φ2.2 +/- 0.05mm	
		Glass tube length: 148 +/- 1.0mm	
2	Glass tube	Hard material glass tube	
3	Fluorescent powder	Three primary colors phosphor	
4	Electrode	Kovar	
5	Gas	70 Torr	Ne+Ar(95:5)

3. Primary Characteristics.
   3.1. Requests of Specifications

Item No.	Name	Code	Unit	Specification		Remark
1	Lamp Voltage (Reference)	VL	Vrms	420 +/- 10%		KD12300 inverter 12V
2	Lamp Current	IL	MArms	6.0 +/- 0.2mA		
3	Starting Voltage (Reference)	Vs	Vrms	680 +/- 10%		KD12300 6mA 25°C
4	Surface Brightness	B	Cd/m^2	26000 +/- 10%		KD12300 6mA 25°C
5	Color Coordinates	x		0.286 +/- 0.010		CIE 1931
		y		0.283 +/- 0.010		
6	Peak Spectrum (Reference)		Nm	Red	611	
				Green	544	
				Blue	440	
7	Stable Time of Illumination	Ts	min	3min		

3.2. Test Conditions

3.2.1. Lamp should be placed in horizontal position, under required testing current, and undergo normal lighting for more than 3 minutes, then conduct the electrical and optical properties tests

3.2.2. Temperature of Test Environment = 25°C±2°C

3.2.3. Relative Humidity of Test Environment = 65%±20%, under no wind state.

3.3. Test Apparatus

Test Items	Test Apparatus
Lamp Voltage	Oscilloscope (Tektronix TDS1012B 100:1)
Lamp Current	Multimeter (Fluke 8086 A)
Surface Brightness	Colorimeter (Topcon BM-7)
Color and Color Temp Coordinates	Colorimeter (Topcon BM-7)

3.4. Test Methods

3.4.1. CCFL unit under complete voltage control; the test circuit as shown in the Diagram below.

3.4.1.1. LV output end connected to negative of 0V ~ 12V input

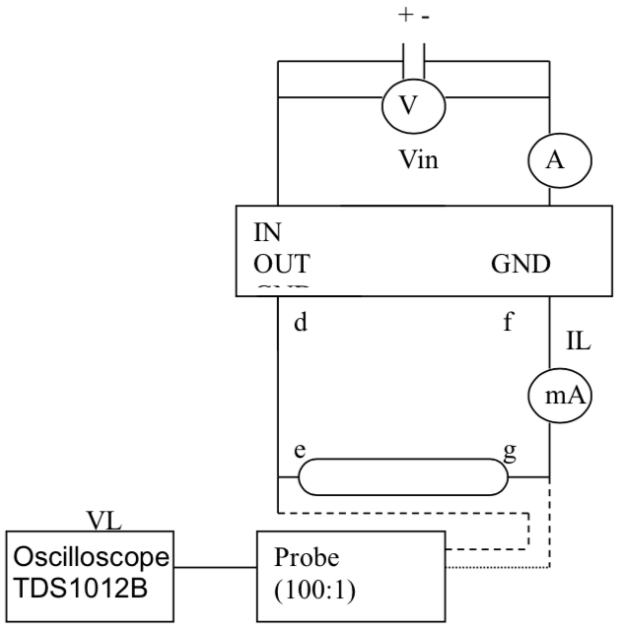
3.4.1.2. The connection wire length is 100~300mm

3.4.1.3. Test circuit wires parallel distance should be longer than 100mm in order to avoid possible interference which could affect measurement accuracy

3.4.1.4. When testing current disconnect VL test equipment

3.4.1.5. When testing voltage disconnect IL test equipment

3.4.1.6. During testing, place CCFL unit on shelf with black background in a non-reflective environment



3.4.2. Brightness Measurement (naked lamp only), the Colorimeter should be kept a distance of 500 +/- 10mm from the lamp vertical axis and test black perspective at 0.1 degrees.

3.4.3. NOTE: testing done with difference test equipment and under different test conditions may result in measurement differences.