

SPECIFICATION SHEET

Customer:

Product: 10100410

Model: 1.8 x 222 | 0.274/0.266

Specifications

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

Item No.	Name	Requirements	Remark
	Dimension	Lamp Shape: Straight	Naked lamp
1		Dia: Ф1.8 +/- 0.05mm	
		Glass tube length: 222 +/- 1.0mm	
2	Glass tube	Hard material glass tube	
3	Fluorescent powder	Three primary colors phosphor	
4	Electrode	Kovar	
5	Gas	80 Torr	Ne+Ar(95:5)

- 3. Primary Characteristics.
 - 3.1. Requests of Specifications

ltem No.	Name	Code	Unit	Specification		Remark
1	Lamp Voltage (Reference)	VL	Vrms	560 +/- 10%		KD12300 inverter 12V
2	Lamp Current	IL	MArms	6.0 +/- 0.2mA		
3	Starting Voltage (Reference)	Vs	Vrms	900 +/- 10%		KD12300 6mA 25°C
4	Surface Brightness	В	Cd/m ²	29000 +/- 10%		KD12300 6mA 25°C
Е	Color	Х		0.274 +/- 0.010		CIE 1931
5	Coordinates	У		0.266 +/- 0.010		
6	Peak Spectrum (Reference)			Red	611	
			Nm	Green	544	
			Blue	440		
7	Stable Time of Illumination	Ts	min	3min		



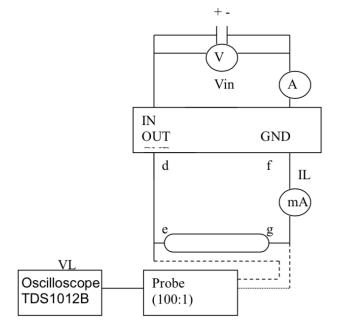
- 3.2. Test Conditions
 - 3.2.1. Lamp should be placed in horizontal position, under required testing current, and undergo normal lighting for more than 3 minutes, then conduct the electrical and optical properties tests
 - 3.2.2. Temperature of Test Environment = 25°C±2°C
 - 3.2.3. Relative Humidity 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 nonreflective 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.

