

PRODUCT:

HIGH CRI CIE Standard Illuminant D50 Basic LED T8 Tube



FEATURES:

- ISO3664:2000 compliant
- JSPST-1998 compliant
- CRI 97+
- Mlvis≤0.6, Mluv≤3.0
- 10,000 hrs life expectancy
- AC 90V-277V AC Power Supply included
- Mercury free

DESCRIPTION

YUJI now release high quality CIE D50 (Daylight 5000K) LED T8 tubes which offer the high color rendering index (Ra 97+) and low metamerism indices in both visible and ultraviolet ranges. These tubes could create an ideal viewing condition in compliant with ISO3664: 2000 standard. Energy use will be saved by over 30%. These tubes could be used for critical color viewing applications in printing, graphic arts, packaging, ink manufacturing as an ideal replacement of T8 fluorescent lamps. These tubes could instantly provide high-definition color to any room, studio or display case. Perfectly fit for retail, museum, office and home lighting applications as well.



ELECTRICAL-OPTICAL CHARACTERISTICS (T_c = 25 °C)

PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Rated voltage	AC	90	--	277	V	--	--
Rated power	P	--	11	--	W	±1	600mm
	P	--	20	--	W	±1	1200mm
	P	--	25	--	W	±1	1500mm
Power factor	--	0.9	--	--	--	--	--
Frequency	--	50	--	60	Hz	--	--
Luminous flux	Φ _{D50}	--	550	--	lm	--	600mm
		--	1100	--	lm	--	1200mm
		--	1375	--	lm	--	1500mm
Color temperature	CCT _{D50}	--	5000	--	K	--	--
Color rendering index	Ra*	95	97	--	--	±1	--
Ri (i=1-15)	Ri	--	90	--	--	--	--
Chromaticity coordinates	(u' ₁₀ , v' ₁₀)	--	--	--	--	±0.004*	--
Metamerism Index Visible	Mlvis	--	0.6	--	--	--	--
Metamerism Index UV	Mluv	--	2.5	--	--	--	--
Viewing angle	2θ1/2	--	160	--	Deg	±5	--

*Yuji Everfine standard equipment shall prevail

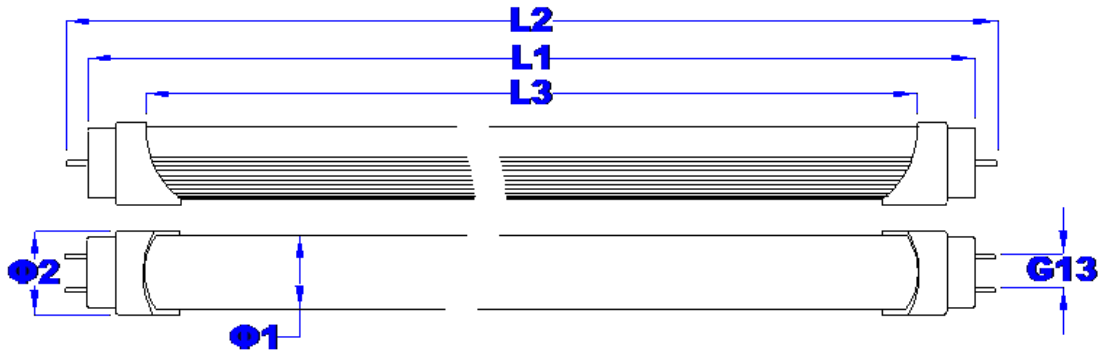


MECHANICAL SPECIFICATIONS			
PARAMETER	SYMBOL	Value	UNIT
Optics	--	Clear PC Cover	--
Mounting	Pin	G13	--
Protection Class	--	IP20	--
Operating Temperature	T _{opr}	-20 ~ +45	°C
Storage Temperature	T _{stg}	-20 ~ +45	°C

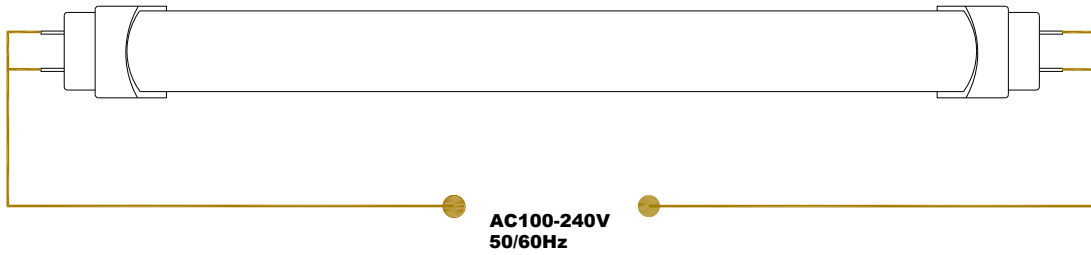
ORDERING INFORMATION		
PART NUMBER	CCT	LENGTH
YJT86011WVG01D50B	5000K	2FT / 60cm
YJT812020WVG01D50B	5000K	4FT / 120cm
YJT815025WVG01D50B	5000K	5FT / 150cm

CHROMATICITY BINS & COORDINATES		
CIE 1976 COORDINATES		
Center point	U' ₁₀	V' ₁₀
	0.2102	0.4889
Tolerance radius	0.004	
CIE 1931 COORDINATES		
Center point	X ₁₀	Y ₁₀
	0.3478	0.3596
Tolerance radius	--	

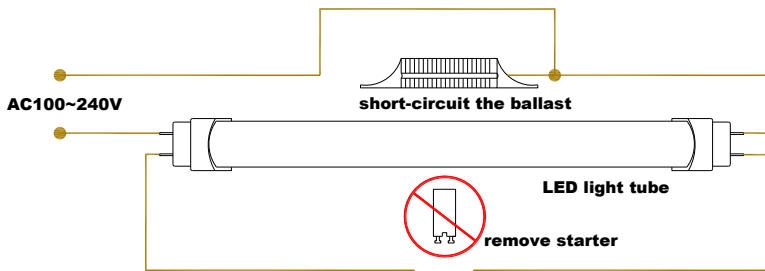
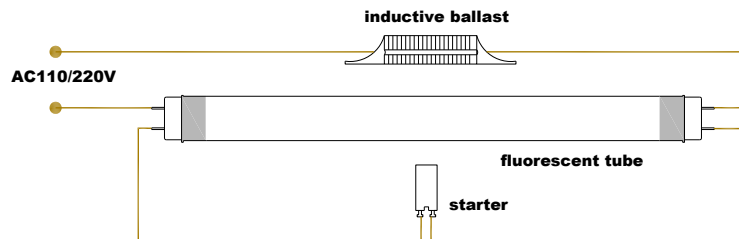
DIMENSION				
Symbol	Description	2FT / 60cm	4FT / 120cm	5FT / 150cm
$\Phi 1$	Oval tube (longitudinal diameter / transverse diameter)	28mm / 26mm	28mm / 26mm	28mm / 26mm
$\Phi 2$	Plug the widest diameter	30mm	30mm	30mm
L1	Tube length	588mm	1198mm	1498mm
L2	Needle length	604mm	1214mm	1514mm
Base size	Pin type	G13	G13	G13



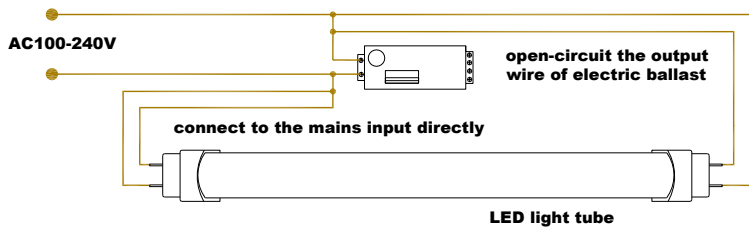
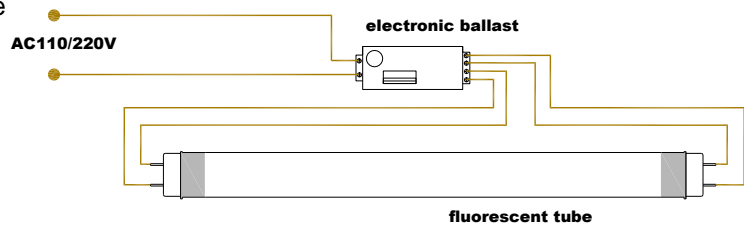
INSTALLATION



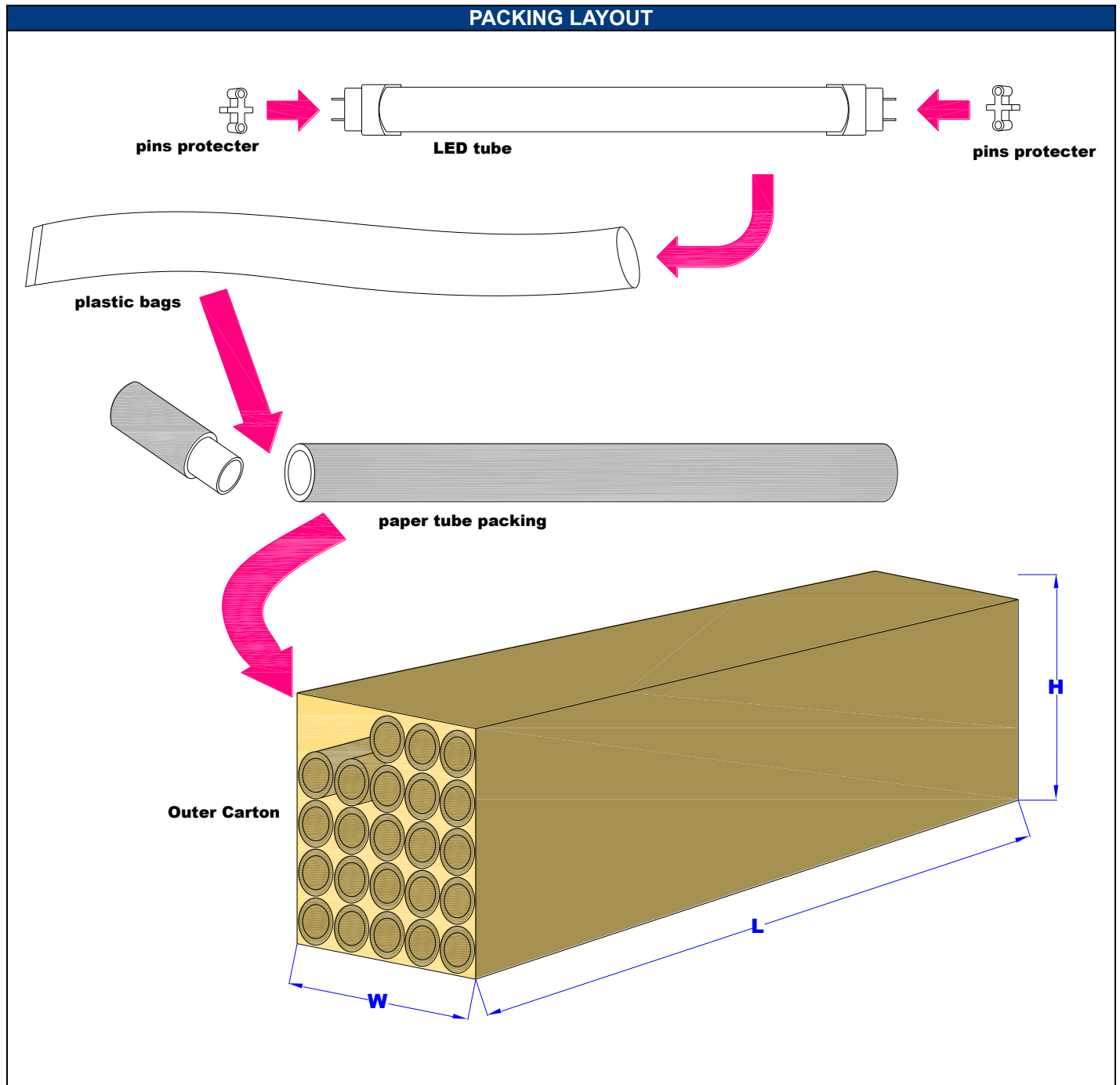
Lamp principle of electric signal



Inductance ballast substitution principle



Electronic ballast substitution principle





LOT NUMBERING SCHEME

Yuji LED uses two formats for lot numbering purposes:

1) YYYY-MM-XXX-Z

YYYY: 4-digit manufacturing year

MM: 2-digit manufacturing month

XXX: 3-digit inventory number (000 – 999)

Z: internal alphanumeric code

2) YYYYMMXXX

YYYY: 4-digit manufacturing year

MM: 2-digit manufacturing month

XXX: 3-digit inventory number (000 – 999)