



## SPECIFICATION FOR APPROVAL



Product photo

**Customer :** \_\_\_\_\_  
**Products Name :** LED T8 Tube  
**Our Model :** LUM-T8F27-22W  
**Customer model :** \_\_\_\_\_

**Approved by :**

### ECR history

version	issue date	Description of amendment/additional		
A				

1. Specification

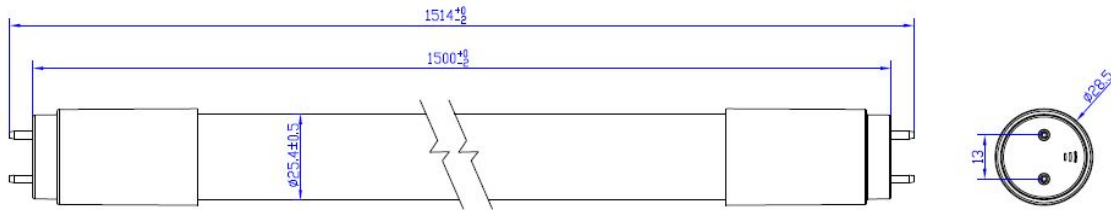
1-1. Environment

	unit	Spec.		
		Typical	min	max
Storage temp.	(degC)	25	-20	60
Operating temp.	(degC)	25	-20	40
Storage humidity	(%RH)	65%	10%	90%
Operating humidity	(%RH)	65%	10%	90%

1-2. Geometry Property

Dimension & Drawing of products

	unit	Spec.		
		Typical	min	max
Diameter	(mm)	26	25	27
Cut-Out	(mm)			
MOL	(mm)	1499	1498	1500
Weight	(g)	300	268	332
Base			G13	



1-3. Electrical Performance

	unit	spec		
		Typical	min	max
Consumption Power	(w)	22	20.0	24.0
Input Voltage	(v)	230	100	240
Input Current	(mA)			
Power Factor			0.9	
Frequency	(Hz)		50/60	
Starting time * for EU	(sec)		0.5	
THD	%		/	

1-4. LED Chip/Package information LED

LED Vender	REFOND/CEC/NATIONSTAR
model no.	2835
Number of LED per boad	120

1-5. Photometric Performance

	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	6500
luminous flux (90deg cone) * for EU directional lam	(lm)				
total Luminus flux	(lm)	2100	2200	2200	2200
CBCP	(cd)				
CRI(Ra)	700	≥80			
Beam Angle	(deg)	270			
Efficiency	(lm/w)	95	100	100	100
Dimming		NO			

Tolerance ± 6 %

1-6. Lifespan

Lifetime(L70) at 25deg	(hours)	40000	@25℃
Switching Cycle	(times)	20000	30s on / 60s off

1-7. Light Distribution data / LED's Spectrum wave form

TBD

1-8. work in special fixture

enclosed (sealed) fixtures	(OK or N/A)	N/A
thermal-insulation fixtures	(OK or N/A)	N/A

1-9. compatibility for switch with indicator (Firefly switch)

compatible	(OK or N/A)	OK
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(330kΩ) for ~120V, (750kΩ) for ~230V, Pana\_FireFlySW x 2-parallel, work properly ~ for JPN. \* N/A- lamp wtransformer

2. Regulation Certification

On the way.

3.Pallatizing (drawing)

	Length (mm)	Width (mm)	Height (mm)	Weight (g)
giftbox				
Outer carton	1530	230	190	
Unit weight with lamp				
Carton weight with full lamps inside				

For example ) Package configuration

