



SPECIFICATION FOR APPROVAL



Customer : _____
Products Name : LED T8 Tube
Our Model : LUM-T8F27-15W
Customer model : _____

Approved by :

ECR history

version	issue date	Description of amendment/additional
A		

1. Specification

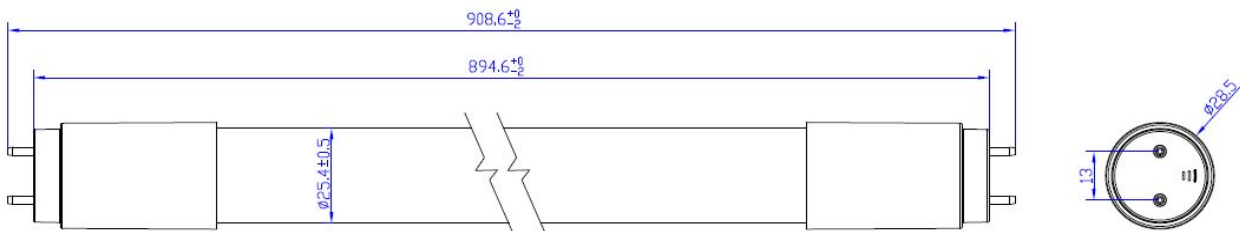
1-1. Environment

	Spec.			
	unit	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

	Spec.			
	unit	Typical	min	max
Diameter	(mm)	26	25	27
Cut-Out	(mm)			
MOL	(mm)	895	894	896
Weight	(g)	160	150	170
Base			G13	



1-3. Electrical Performance

	spec			
	unit	Typical	min	max
Consumption Power	(w)	15	13.5	16.5
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	72

1-5. Photometric Performance

	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	6500
luminous flux (90deg cone) * for EU directional lamp	(lm)				
total Luminus flux	(lm)	1500	1500	1500	1500
CBCP	(cd)				
CRI(Ra)	700	≥80			
Beam Angle	(deg)	270			
Efficiency	(lm/w)	100	100	100	100
Dimming		NO			

Tolerance ± 6 %

1-6. Lifespan

Lifetime(L70) at 25deg	(hours)	40000	@25°C
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 w/transformer

2. Regulation Certification

On the way.

3.Pallatizing (drawing)

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

For example) Package configuration

