



## SPECIFICATION FOR APPROVAL



Customer : \_\_\_\_\_  
Products Name : **LED T8 Tube**  
Our Model : **LUM-T8H16-9W**  
Customer model : \_\_\_\_\_

Approved by : \_\_\_\_\_

### ECR history

version	issue date	Description of amendment/additional
A		

## 1. Specification

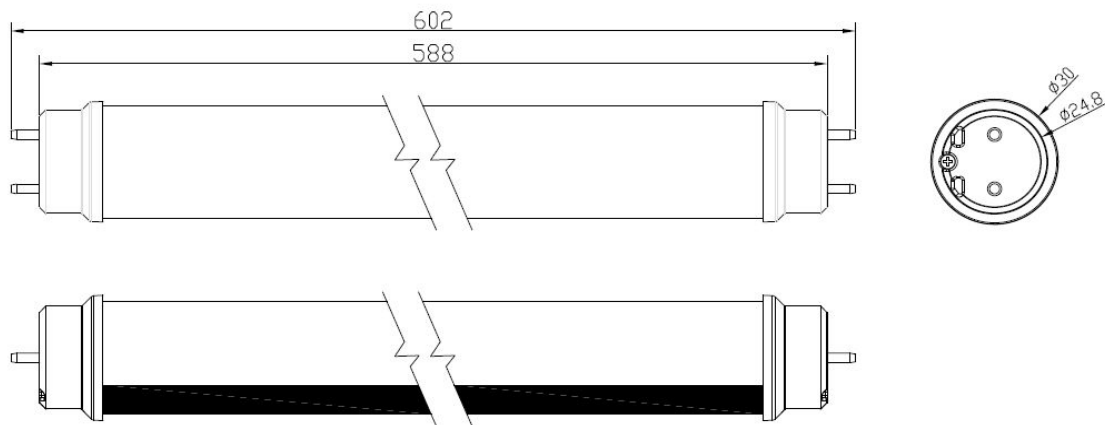
### 1-1. Environment

	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)	26.9	26.8	27
Cut-Out	(mm)			
MOL	(mm)	589	588	590
Weight	(g)	90	85	95
Base		G13		



### 1-3. Electrical Performance

	spec			
	unit	Typical	min	max
Consumption Power	(w)	9	8.10	9.90
Input Voltage	(v)	230	220	240
Input Current	(mA)	45	40	50
Power Factor		0.9		
Frequency	(Hz)	50/60		
Starting time * for EU	(sec)	0.5		
THD	%	<15%		

1-4. LED Chip/Package information LED

LED Vender	REFOND/CEC/NATIONSTAR
model no.	2835
Number of LED per board	44

1-5. Photometric Performance

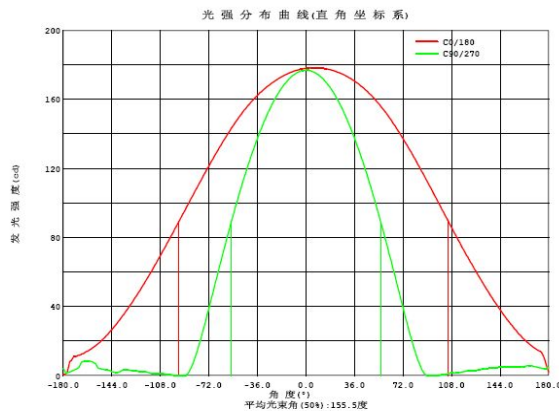
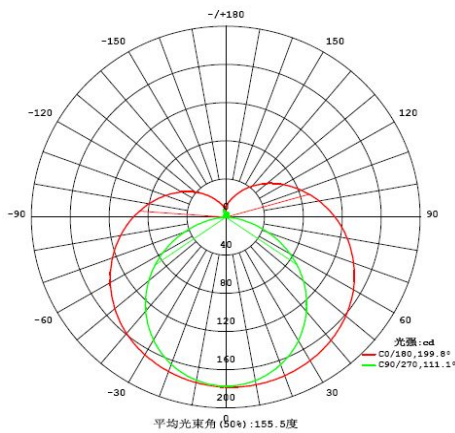
	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	6500
luminous flux (90deg cone) * for EU directional lamp	(lm)	880	900	900	900
total Luminus flux	(lm)	880	900	900	900
CBCP	(cd)				
CRI(Ra)	700	≥80			
Beam Angle	(deg)	180			
Efficiency	(lm/w)	98	100	100	100
Dimming		NO			

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



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
------------	-------------	----

(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	710	200	160	
Unit weight with lamp				
Carton weight with full lamps inside				

For example ) Package configuration

