



## SPECIFICATION FOR APPROVAL



Customer : \_\_\_\_\_  
Products Name : LED Light  
Our Model : LUM-DL13P5H18-25W  
Customer model : \_\_\_\_\_

Approved by :

ECR history

version	issue date	Description of amendment/additional
A		

## 1. Specification

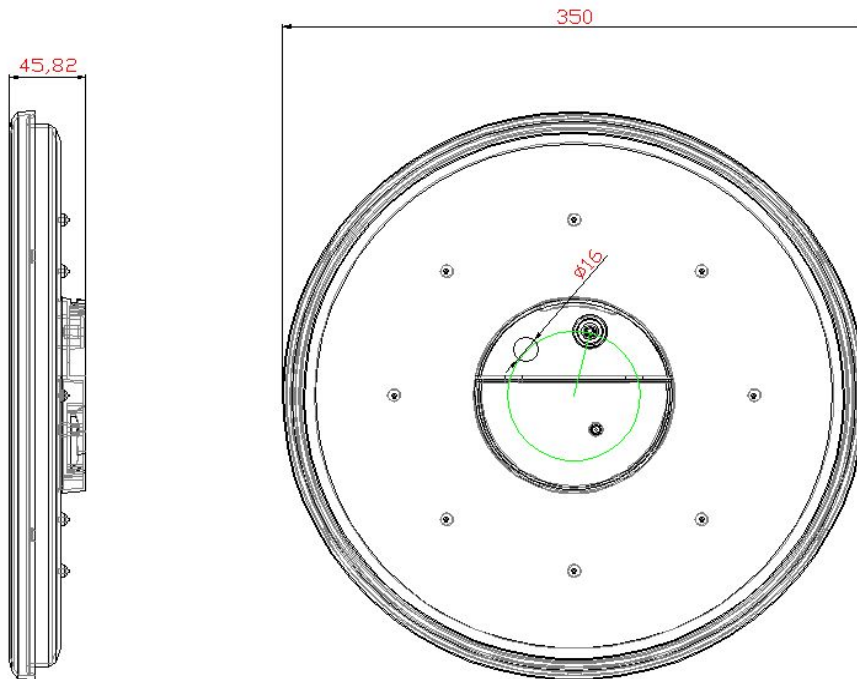
### 1-1. Environment

	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)	350	349	351
Cut-Out	(mm)			
MOL	(mm)	45.8	45.3	46.1
Weight	(g)	830	820	840
Base				



### 1-3. Electrical Performance

	spec			
	unit	Typical	min	max
Consumption Power	(w)	25	22.50	27.50
Input Voltage	(v)	230	220	240
Input Current	(mA)	125	120	115
Power Factor		0.9	0.9	
Frequency	(Hz)		50/60Hz	
Starting time * for EU	(sec)		0.5	

### 1-4. LED Chip/Package information LED

LED Vender	REFOND/CEC/NATIONSTAR
model no.	2835
Number of LED per board	168

1-5. Photometric Performance

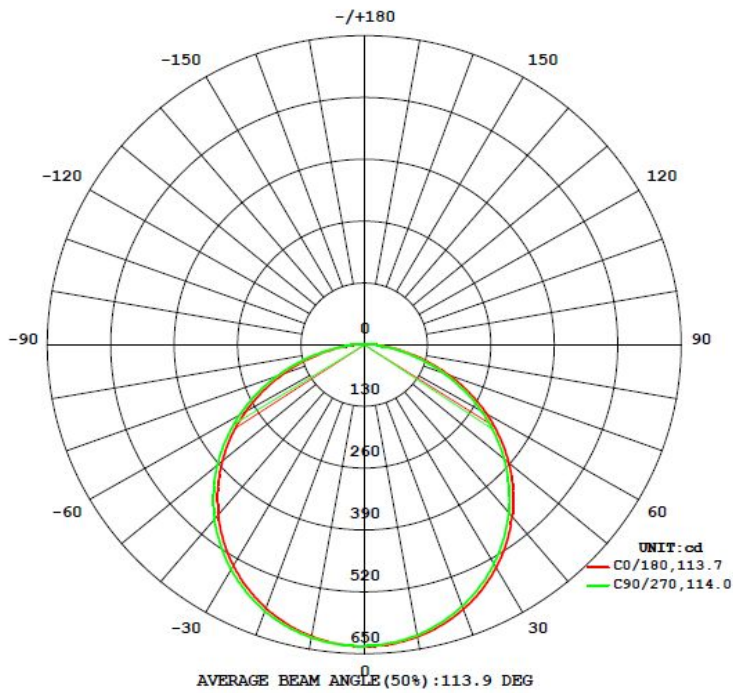
	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	6500
luminous flux (90deg cone) * for EU directional lamp	(lm)				
total Luminous flux	(lm)	2000	2100	2100	2100
CBCP	(cd)				
CRI(Ra)	700	≥80			
Beam Angle	(deg)	100			
Efficiency	(lm/w)	80	84	84	84
Dimming		NO			

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



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	360	360	80	
Outer carton	385	380	340	
Unit weight with lamp				
Carton weight with full lamps inside				

For example ) Package configuration

