



SPECIFICATION FOR APPROVAL



Customer : _____
Products Name : LED AR111
Our Model : LUM-AR111B06-15W
Customer model : _____

Approved by : _____

ECR history

version	issue date	Description of amendment/additional		
A				

1. Specification

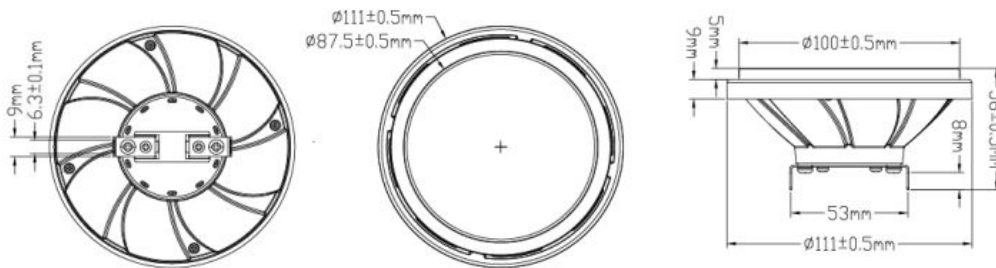
1-1. Environment

	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)	111	110	111
Cut-Out	(mm)			
MOL	(mm)	56	55.6	56.5
Weight	(g)	150	140	160
Base		G53		



1-3. Electrical Performance

	spec			
	unit	Typical	min	max
Consumption Power	(w)	15	13.5	16.5
Input Voltage	(v)	12	11	13
Input Current	(mA)			
Power Factor		0.9		
Frequency	(Hz)	50/60		
Starting time * for EU	(sec)	0.5		

1-4. LED Chip/Package information LED

LED Vender	LUMINUS
model no.	COB
Number of LED per board	1

1-5. Photometric Performance

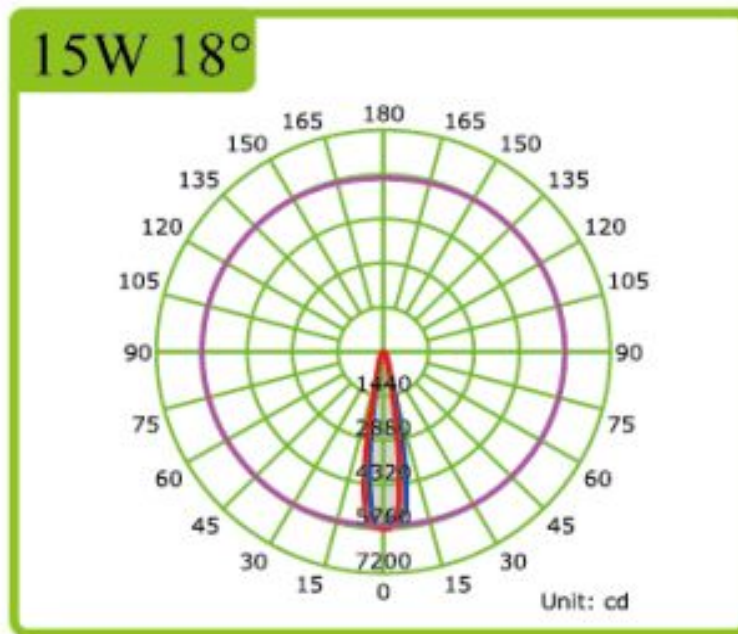
	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	6500
luminous flux (90deg cone) * for EU directional lamp	(lm)	1100	1180	1180	1180
total Luminus flux	(lm)	1100	1180	1180	1180
CBCP	(cd)	5800	5880	5880	5880
CRI(Ra)	700	≥80			
Beam Angle	(deg)	18/36			
Efficiency	(lm/w)	73	79	79	79
Dimming		YES			

Tolerance ± 6 %

1-6. Lifespan

Lifetime(L70) at 25deg	(hours)	25000	@25°C
Switching Cycle	(times)	17500	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. * NA- lamp w/transformer

2. Regulation Certification

On the way.

3.Pallatizing (drawing)

	Length (mm)	Width (mm)	Height (mm)	Weight (g)
giftbox	130	130	70	
Outer carton	415	410	300	
Unit weight with lamp				
Carton weight with full lamps inside				

(For example) Package configuration

