



SPECIFICATION FOR APPROVAL



Customer : _____
Products Name : Tri-proof Light
Our Model : LUM-S12A1-1.2M-60W
Customer model : _____

Approved by :

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ECR history

version	issue date	Description of amendment/additional		
A				

1. Specification

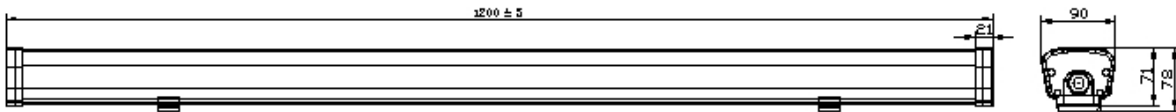
1-1. Environment

	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)	90*78	89*77	91*79
Cut-Out	(mm)			
MOL	(mm)	1200	1195	1205
Weight	(g)			
Base				
Product Color		white		



1-3. Electrical Performance

	spec			
	unit	Typical	min	max
Consumption Power	(w)	60	54.0	66.0
Input Voltage	(v)	230	100	240
Input Current	(mA)	260	240	280
Power Factor		0.9		
Frequency	(Hz)	50/60		
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 boad	288

1-5. Photometric Performance

	unit	Spec.			
		Typical			
Color Temp.	(k)	3000	4000	5000	
luminous flux (90deg cone) * for EU directional lamp	(lm)				
total Luminus flux	(lm)	4600	5000	5000	
CBCP	(cd)				
CRI(Ra)	700	≥80			
Beam Angle	(deg)	135			
Efficiency	(lm/w)	77	83	83	
Dimming		NO			

Tolerance ± 6 %

1-6. Lifespan

Lifetime(L70) at 25deg	(hours)	25000	@25°C
Switching Cycle	(times)	12500	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

TBD

(attach Photo here)