

Description: RX-FB28 direct type LED panel lights, the world's thinnest 28mm built-in LED driver, presents excellent light uniformity. Specifically optimized design for solve the problem of Invisible or Imperceptible Flicker, Protect your eyes - No flicker! High power High lumen, Apply to Variety of places high brightness indoor lighting, Office Lighting, Meeting Rooms, Restaurants, Hotels, Hallway & lobbies, Subway Stations, School and Hospital, Factory lighting.



World's thinnest 28mm

Direct type Built-in LED driver

No flicker-Protect Your Eyes

No Visible and Imperceptible Flicker

Super brightness

5675Lm 62W

Long-life LED panel

Long-life power supply

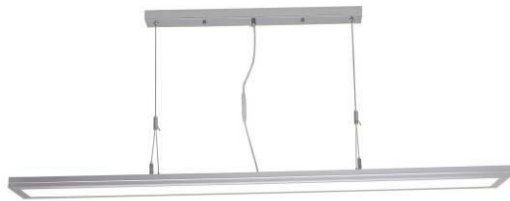


High CRI > 80

High efficiency 100Lm/W

PC light diffusion

Uniform light emitting no dark zone



Application specs

Brightness 3200Lm @ 32W (5675Lm @62W)

Default Colors CW5800~6500K

Other colors WW2800~3200K NW3800~4250K

CRI > 80

Protection Rating IP40

Operating Temperature Ta -30~50°C T_{cp} Max 70°C

Electrical specs

Power 32W or 62W

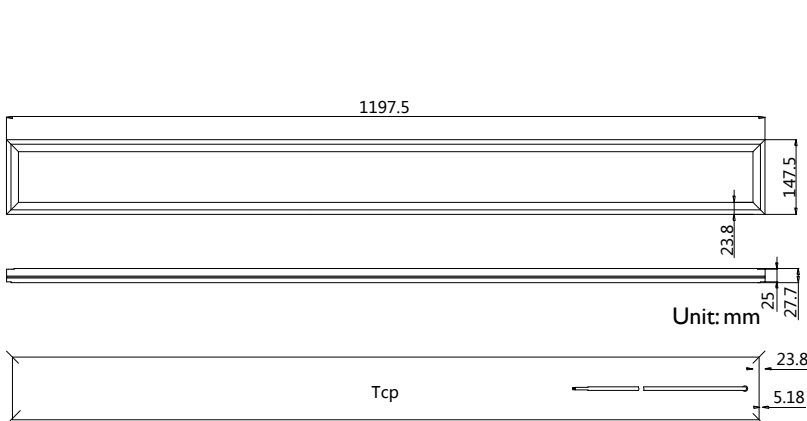
Input AC100~240V PF>0.9

Warranty 3 years

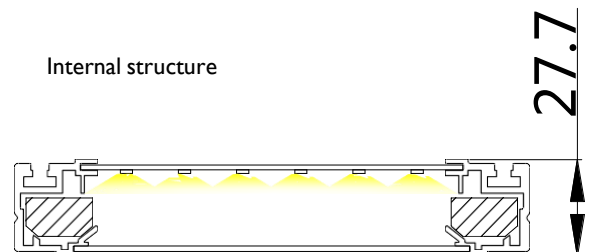
Rated Life >50000hours T_c < 60°C

Certification CE RoHS FCC

Dimension



Internal structure



Technical Data: Built-in driver TYPE

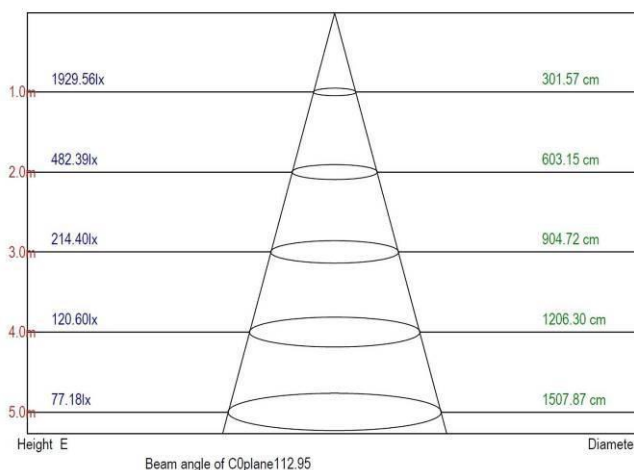
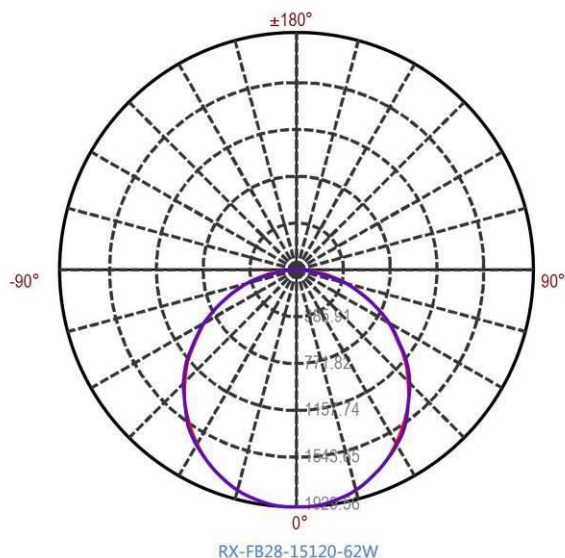
MODEL	LED Panel		LED Drivers		Total Power Luminous flux	Tcp Test	Comment
	Specifications	LED QTY	Model	Specifications			
RX-FB28-15120-N1	1200x150x28mm 2.5KG	SMD3528 0.1W 468LED	Built-in driver	EFC-30L AC100~240V PF>0.9 0.7A @ 39V	32W 3200Lm	38°C	High efficiency 100Lm/W
RX-FB28-15120-N2	1200x150x28mm 2.5KG	SMD2835 0.2W 468LED	Built-in driver	EFC-30L x2pcs AC100~240V PF>0.9 1.4A @ 40V	62W 5675Lm	42°C	High efficiency 91Lm/W

Beam characteristic 120°, Tolerance range for optical and electrical data: ±10 %.

The above table data testing at room temperature is 25 °C, Cooling by free air convection. (Max Tcp 70 °C)

Test LED color temperature 5800-6250K, CRI: >80, (VW2800~3200K 92% brightness ; NW3800~4200K 96% brightness)

Photometric data:



RX-FB28-15120-N2

Photometrics Test Data: [RX-FB28-15120-N2-PDF](#)

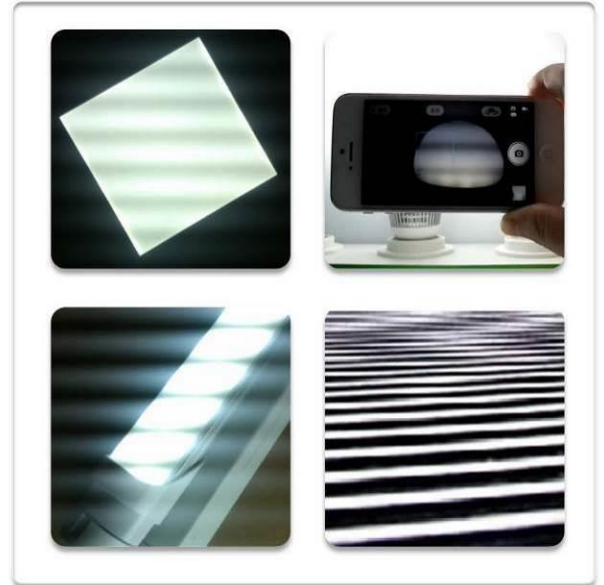
XineLam direct-panel lights advantages:

1. No Flicker - Invisible or Imperceptible flicker, be harmful for health; light-headed Visual fatigue caused by myopia
2. Ultra-Slim 28mm - World's thinnest direct-panel lights / Built-in high-quality LED drivers
3. High CRI> 80, High efficiency 100Lm / W, 22-78% energy saving compared with similar products
4. Safe and Reliable - EMC, EMI, LVD, Meet certification requirements of all countries !
5. New design - Patented product, Contracted but not simple, Golden ratio lines, No backplate screws
6. Full high thermal conductivity MCPCB + High quality PC diffusion plate- Uniform light without dark, No glare, NO Hot Spots!
7. Long life - Long-life LED panel, Long-life power supply, Low temperature rise < 15 °C , Low temperature rise to long life
8. XineLam all products, 3-year warranty; you can also apply for 5-year warranty. High quality can really guarantee!

I, No Flicker - Invisible or Imperceptible flicker, be harmful for health; light-headed Visual fatigue caused by myopia



VS



Pure natural light - No Visible and Imperceptible Flicker

100/120Hz Flicker

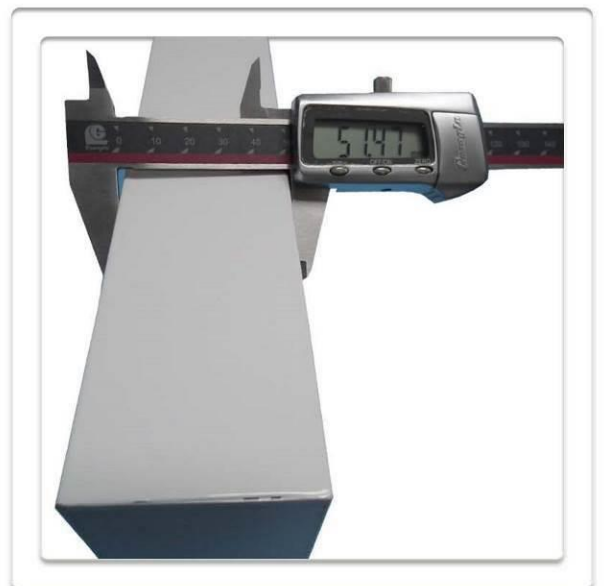
P.S.: Invisible or Imperceptible Flicker:

Flicker that is not consciously perceivable by a human viewer. The effects of flicker can range from decreased visual performance to non-specific malaise to the onset of some forms of epilepsy. (Maddocks et al., 2001), (Evans et al., 2006). Take out your camera or mobile phone with a camera function, close-up shots lamp light source, less than 30cm (high brightness point light source is required to use the lampshade diffusion cover), flicker the lamps will show blinds or appear regularly stripes. According: IEEE1789

2, Ultra-Slim 28mm - World's thinnest direct-panel lights / Built-in high-quality LED drivers



VS



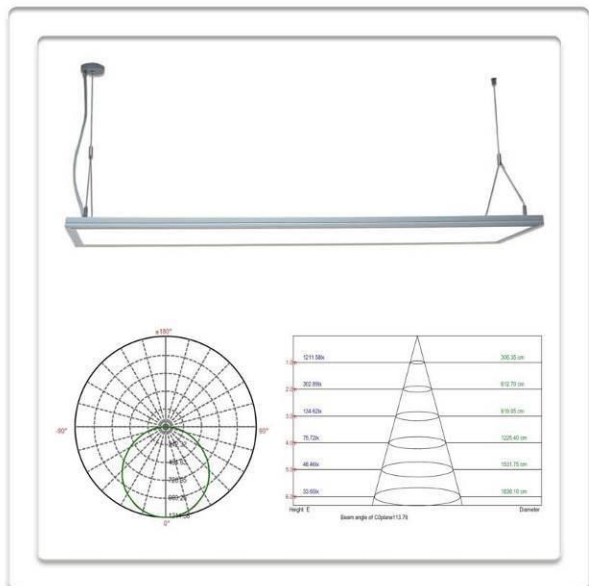
2.8cm - Clever design, To achieve the ultimate
Uniform light without dark areas,
Built-in high-quality LED drivers

No 12cm
No 7cm
No 5cm
No 4.5cm

The new design, the thickness is only 28mm; thickness of other similar products 40-150mm;

Also has the following advantages: Border Width 23.8mm, Large light-emitting surface; Light uniformity, No dark areas, No bright line, No brightened dot, But also a built-in LED drivers

3, High CRI > 80, High efficiency 100Lm / W, 22-78% energy saving compared with similar products



VS



CRI > 80 High-efficiency 100Lm / W

3200Lm 32W Including LED driver power consumption

60% energy saving compared to T5 lamps TPS760

78% energy saving compared to Daywave BPS800 22.5Lm/W

26% energy saving compared to BPS640 74Lm/W

22% energy saving compared to SmartPanel RC160V 78Lm/W

Related Products

The international famous brand: Philips

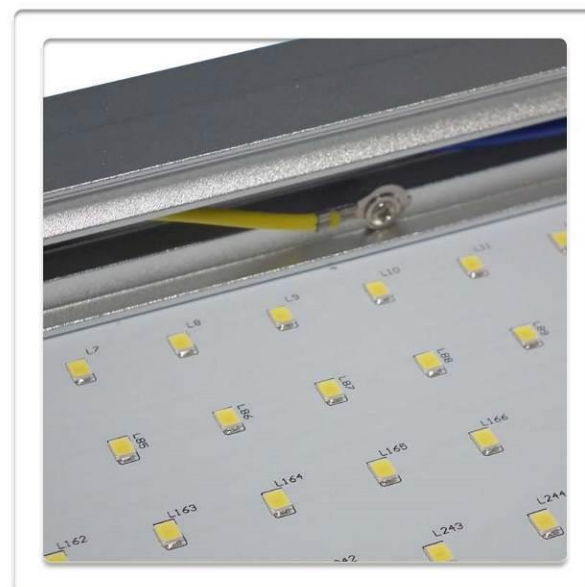
4, Safe and Reliable - EMC, EMI, LVD, Meet certification requirements of all countries !



External power supply

Built-in power supply

AND



Reliable grounding wire, High temperature silicone adhesive fixed LED driver

Built-in power supply
External power supply

4000V HI-POT TEST

Isolation LED power supply, safety components, one less, fuse, varistors, the common mode inductance, Y capacitors, X capacitors. International top professional power chip, long life capacitors!

5, New design - Patented product, Contracted but not simple, Golden ratio lines, No backplate screws



AND



Emitting surface side Back side

Golden ratio lines Frame Structures & Different Finishings

Rectangular Ceiling plate Suspended

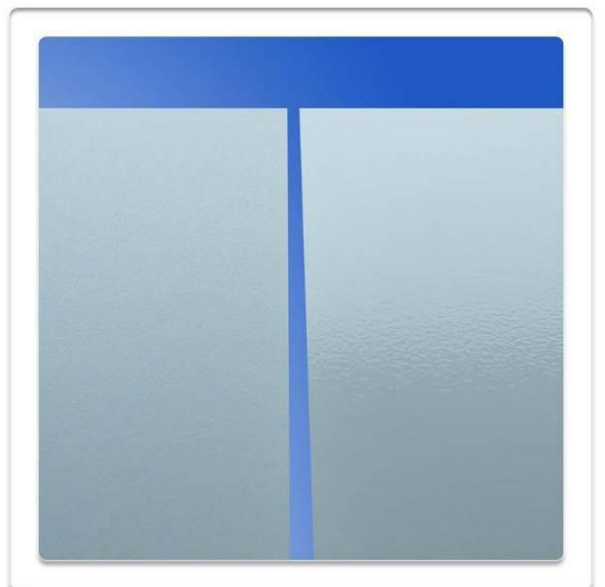
Small Round Ceiling plate Suspended

New design - Patented product, Contracted but not simple, Golden ratio lines, No backplate screws

6, Full high thermal conductivity MCPCB + High quality PC diffusion plate, Uniform light without dark, No glare, NO Hot Spots!



AND



Low temperature rise to long life

Low temperature rise < 15 °C

Long life - Full high thermal conductivity MCPCB + Long life LED driver + Aviation aluminum

High quality PC diffusion plate - Uniform light without dark, No glare

Bright surface and Fog face- Better light diffusion

No Polystyrene No PMMA(acrylic)

7. Long life - Long-life LED panel, Long-life power supply, Low temperature rise < 15 °C , Low temperature rise to long life

8. XineLam all products, 3-year warranty; you can also apply for 5-year warranty. High quality can really guarantee!

External driver TYPE

MODEL	LED Panel		LED Drivers		Total Power Luminous flux	Tcp Test	Comment
	Specifications	LED QTY	Model	Specifications			
RX-FB28-15120-K1	1200x150x28mm 2.4KG 1.08A@ 36-42V	SMD3528 0.1W 468LED	LF-GIR040	AC100~240V PF>0.9 1A @ 39V	45W AC230V 4200Lm	40°C	External power supply High efficiency 93Lm/W
RX-FB28-15120-KH	1200x150x28mm 2.4KG 2.1A@ 36-42V Max:88W	SMD2835 0.2W 468LED	HLG-80H-48	AC100~240V PF>0.9 2A @ 42V	90W AC230V 8100Lm	45°C	External power supply High brightness 8100Lm

Beam characteristic 120°, Tolerance range for optical and electrical data: $\pm 10\%$.

The above table data testing at room temperature is 25°C, Cooling by free air convection. Test Tcp 45°C @ 2A (Max Tcp 70°C)

Test LED color temperature 5800-6250K, CRI: >80, (WW2800~3200K 92% brightness; NW3800~4200K 96% brightness)

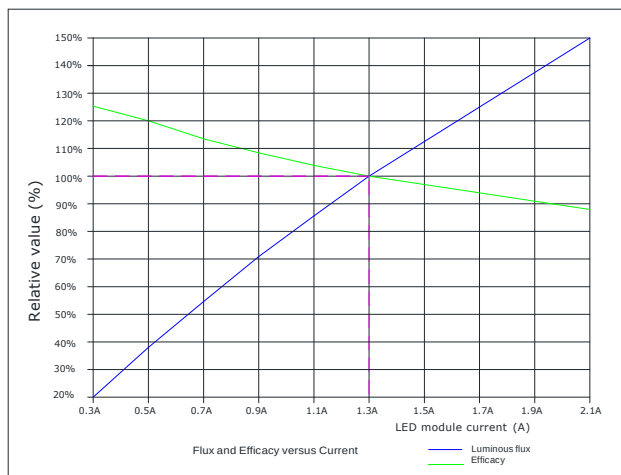
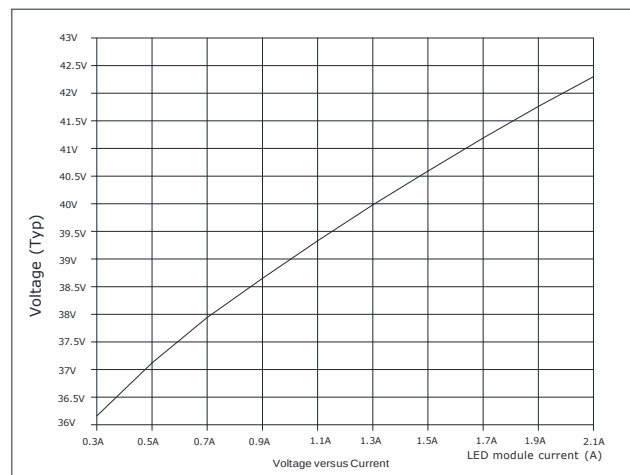
LED panel Light source (Without LED drivers)

Part Number	Size Net weight	LED Module	Test Current	Forward Voltage Typ	Luminous flux Typ	Power Typ	Efficacy Typ	Tcp Test	Comment
RX-FB28-15120-S	1200x150x28mm 2.4Kg	468LED SMD2835 0.2W 1158x108mm	0.7A	38V	3200Lm	26.6W	120Lm/W	37°C	High efficiency
			1A	39V	4500Lm	39W	115Lm/w	39°C	High efficiency
			2A	42V	8800Lm	84W	105Lm/W	45°C	High brightness

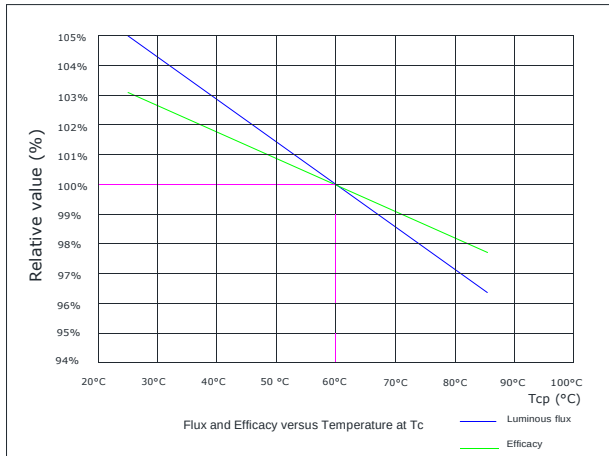
Note: Beam characteristic 120°, Tolerance range for optical and electrical data: $\pm 10\%$.

The above table data testing at room temperature is 25°C, Cooling by free air convection. LED color temperature 6000-6500K, CRI >80,

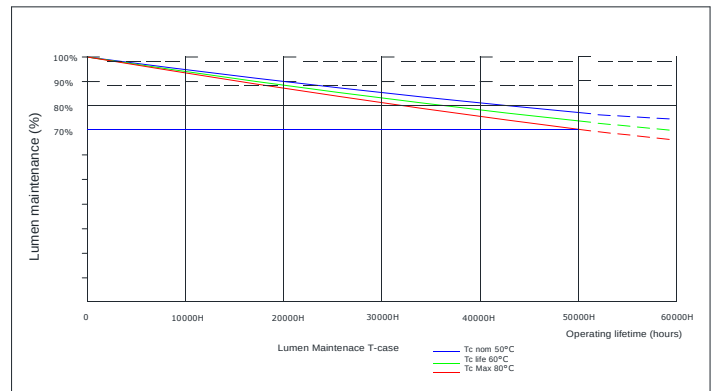
Main materials: Aluminum, MCPCB, LED, Wire, PC diffuser plate.

Tuning information: LED panel Light source (Without LED drivers)
Flux and Efficacy versus Current

Voltage versus Current


Flux and Efficacy versus Temperature at Tc



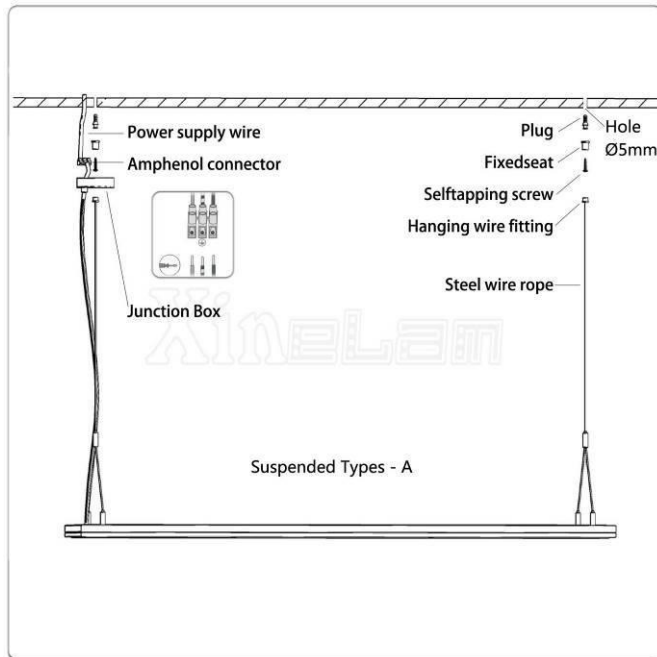
Lumen Maintenance T-case



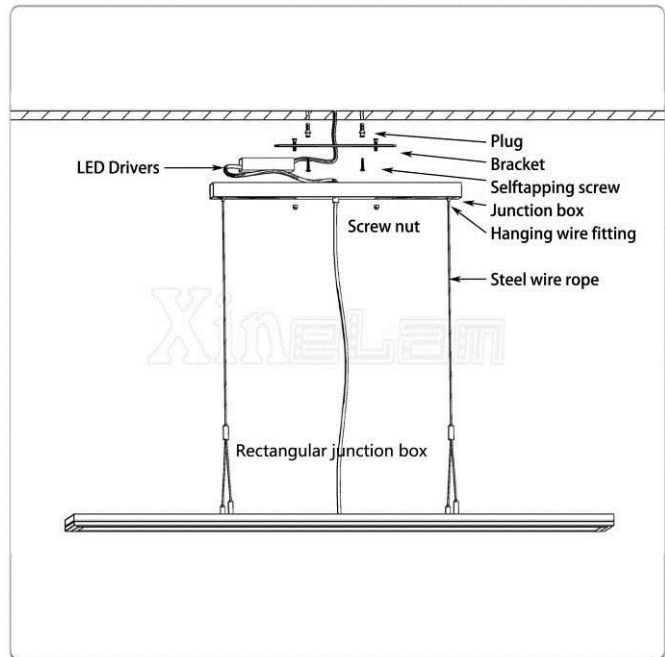
Point Temp., T_{cp}

Installation diagram:

Suspension Mounting - Suspended Types installation



Need only drill 2 holes



Built-in power also applies rectangular junction boxes

Indoor use only

Do not open – no user serviceable parts inside

CAUTION:

Safety Information

1. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
2. The luminaire shall, under no circumstance, be covered with thermal insulation matting or similar material.
3. When cleaning the product, please use dry soft cottoncloth only.
4. The LED panel itself and all its components may not be mechanically stressed.