# LED:

# Panel

High Performance LED Luminare

Kosnic

- Save energy by 60% against traditional T8 modular fitting
- Polycarbonate diffuser
- Slim Profile and Ultra thin frame
- Long life, no maintainance required
- Maintained emergency

## PRO

36W **3800lm**
UGR <**19**

Ripple Free
TPa Diffuser
4000K/6500K
CRI:>80

## Standard

30W **2900lm**
40W **3800lm**
UGR <**19**

Ripple Free
TPb Diffuser
4000K/6500K
CRI:>80
Life:40000h

## ECO

30W **2900lm**
UGR <**19**

TPb Diffuser
4000K
CRI:>80
Life:40000h

**7** Years Extended Warranty

**5** Years Extended Warranty

**3** Years Standard Warranty

Lighting Industry Association · EDA Est. 1914 · The British Assessment Bureau ISO9001 · Carbon Trust Accredited Supplier · RELUX official member

# Standard | *Design*

## Enhanced Heat Dissipation

Kosnic standard LED panels uses aluminium back sheet with folded up edges, on which the LED boards are attached. This way the whole aluminium sheet become the heat sink. This is a unique design and it is the key to high lumen efficiency of Kosnic LED panels

## Optic Guide

The LED chips are placed facing the edge of the optic Guide. The lights travel horizontally through the optic guide and being guided to the upper surface by the micro lens that are laser engraved with in the optic guide. The arrangement of the micro lens is optimised to ensure highest efficiency and even distribution of lights

## Reflecting sheet

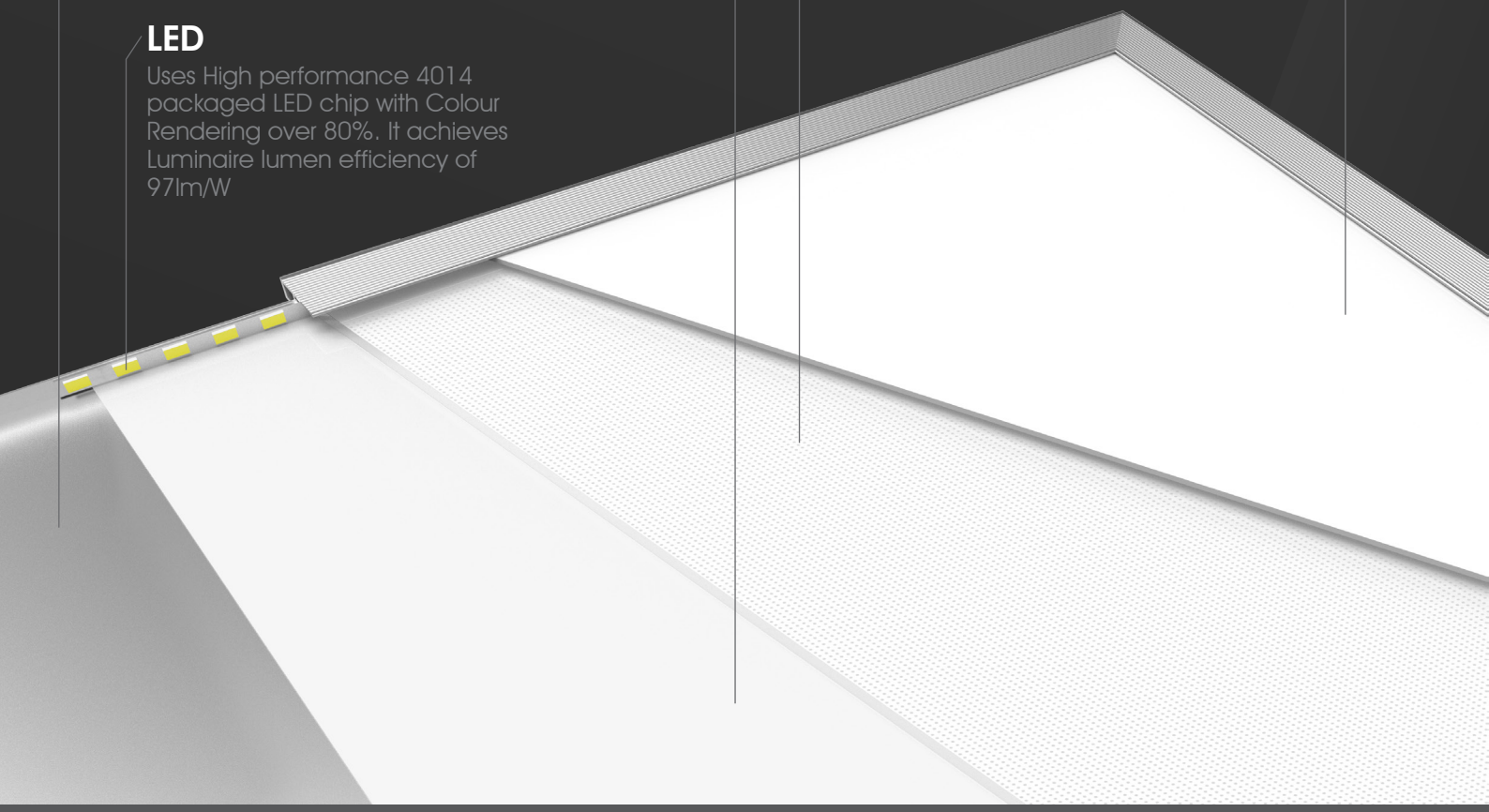
This PET based reflecting sheet has a reflective rate above 97%. It is placed under the optic guide board. It reflects back light that exit from the lower surface of the optic guide

## Polycarbonate diffuser

This polycarbonate diffuser has fire resistance rating of TP(b). The transmittance of this diffuser is over 90%

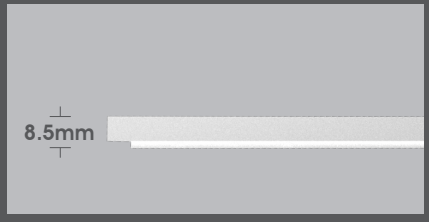
## LED

Uses High performance 4014 packaged LED chip with Colour Rendering over 80%. It achieves Luminaire lumen efficiency of 97lm/W




## Ripple free driver

Many LED panels on the market uses low cost single stage driver that causes strobes at around 100hz. Such strobe is visible using digital camera as shown on the picture on the right. Even though such strobe is usually not visible to naked eyes. Reading and working under such light cause stress to eyes.
Kosnic standard and pro range of LED drivers uses ripple free drivers that give constant light that is ideal for working places.



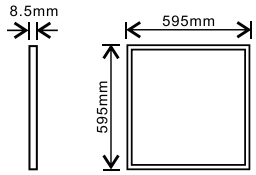

## Ultra slim profile

The over all thickness of the standard LED panel is only 8.5mm.

# Specifications

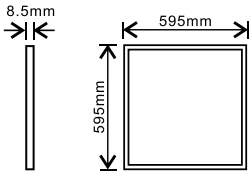
## 30W
595*595

| | |
|---|---|
| Power | 30W |
| Input Current | 137mA |
| Finish | Satin Silver |
| Colour | 3000/4000/6500K |
| Lumen | 2900/2900/3000lm |
| Order Code | KLED30PNL |



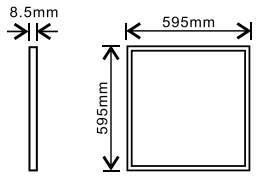

## 30W
595*595

| | |
|---|---|
| Power | 30W |
| Input Current | 137mA |
| Finish | White |
| Colour | 3000/4000/6500K |
| Lumen | 2900/2900/3000lm |
| Order Code | KLED30PNL-WHT |



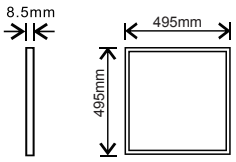

## 40W
595*595

| | |
|---|---|
| Power | 40W |
| Input Current | 183mA |
| Finish | Satin Silver |
| Colour | 4000/6500K |
| Lumen | 3800/3800lm |
| Order Code | KLED40PNL |



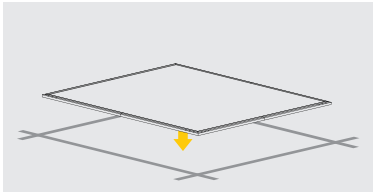

## 30W
495*495

| | |
|---|---|
| Power | 30W |
| Input Current | 137mA |
| Finish | Satin Silver |
| Colour | 4000/6500K |
| Lumen | 2900/3000lm |
| Order Code | KLED30PNL0505 |



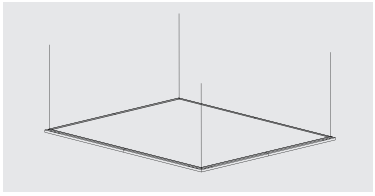

# Installation

### Embed



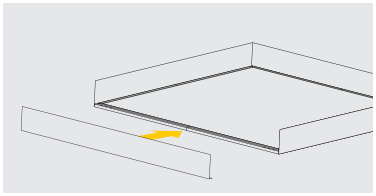
Suitable for 600mm x 600mm ceiling grid

### Suspended



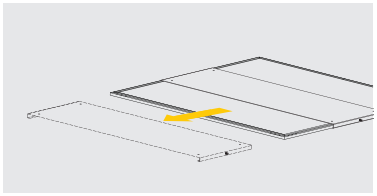
Uses with suspension kit KPTPNL/SUS

### Surface mount A



Use with surface mount kit A KPTPNL/SMT

### Surface mount B



Use with surface mount kit A KPTPNL/SMT-ECO1

Emergency conversion with:
**Universal Emergency Module**


## General Specification

**Voltage** 220-240Vac 50-60Hz
**CRI** >80
**Life Time** 40,000hrs
**Power Factor** >0.95
**Housing** Anodized aluminum
**Diffuser** Polycarbonate (TPb)
**Protection** Class II, IP44 (when ceiling recessed mounted)

# PRO | *Design*

## Optic Guide

The LED chips are placed facing the edge of the optic Guide. The lights travel horizontally through the optic guide and being guided to the upper surface by the micro lens that are laser engraved with in the optic guide. The arrangement of the micro lens is optimised to ensure highest efficiency and even distribution of lights

## Enhanced Heat Dissipation

Kosnic PRO LED panels uses aluminium back sheet with folded up edges, on which the LED boards are attached. This way the whole aluminium sheet become the heat sink. This is a unique design and it is the key to high lumen efficiency of Kosnic LED panels

## Reflecting sheet

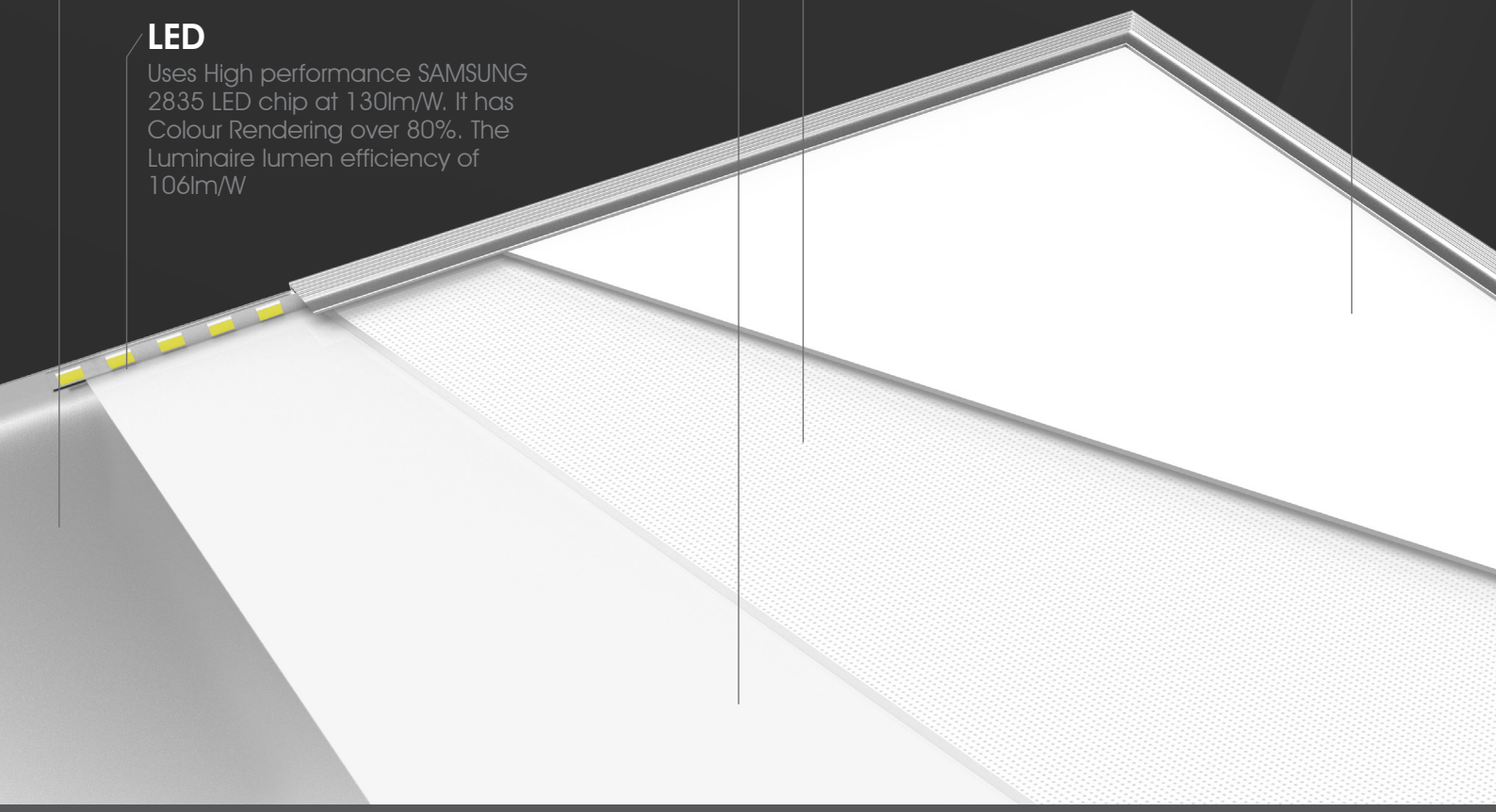
This PET based reflecting sheet has a reflective rate above 97%. It is placed under the optic guide board. It reflects back light that exit from the lower surface of the optic guide

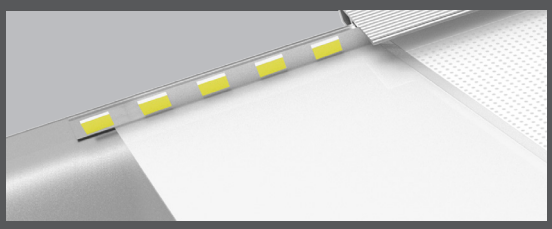
## TP(a) Polycarbonate diffuser

This polycarbonate diffuser has fire resistance rating of TP(a). The transmittance of this diffuser is over 90%

## LED

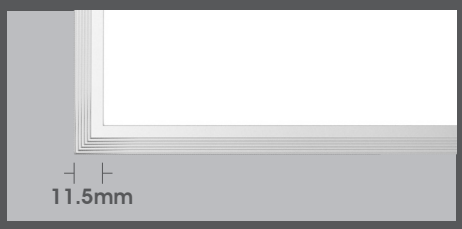
Uses High performance SAMSUNG 2835 LED chip at 130lm/W. It has Colour Rendering over 80%. The Luminaire lumen efficiency of 106lm/W





## Heat dissipation

The aluminium back plate has folded up edges, where the LED boards are mounted. This way the entire back plate become the heatsink, this significantly improves the heat dissipation of the LEDs and achieve high luminaire lumen efficiency of 97lm/W.



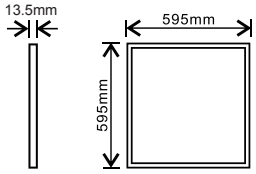

## Ultra thin edge

Kosnic PRO panel has ultra thin frame of only 11.5mm.

# Specifications

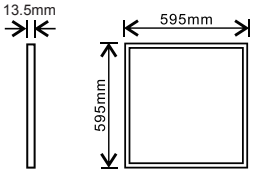
## 36W
595*595

| | |
|---|---|
| Power | 36W |
| Input Current | 160mA |
| Finish | Satin Silver |
| Colour | 4000/6500K |
| Lumen | 3700/3800lm |
| Order Code | KLED36PNL |



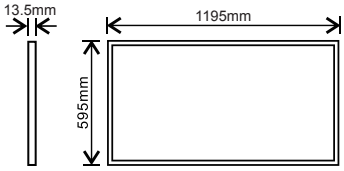

## 45W
595*595

| | |
|---|---|
| Power | 45W |
| Input Current | 200mA |
| Finish | Satin Silver |
| Colour | 4000/6500K |
| Lumen | 3800/4000lm |
| Order Code | KLED45PNL |



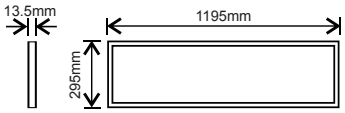

## 80W
595*1195

| | |
|---|---|
| Power | 80W |
| Input Current | 2*160mA |
| Finish | Satin Silver |
| Colour | 4000/6500K |
| Lumen | 6400/6600lm |
| Order Code | KLED80PNL |



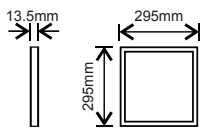

## 30W
295*1195

| | |
|---|---|
| Power | 30W |
| Input Current | 137mA |
| Finish | Satin Silver |
| Colour | 4000K |
| Lumen | 2900lm |
| Order Code | KPNLLS30LT-1203 |



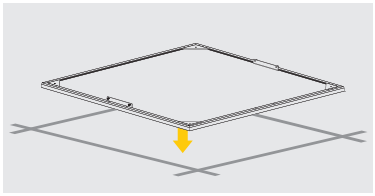

## 36W
295*295

| | |
|---|---|
| Power | 36W |
| Input Current | 160mA |
| Finish | Satin Silver |
| Colour | 4000K |
| Lumen | 3200lm |
| Order Code | KLED36PNL0303 |



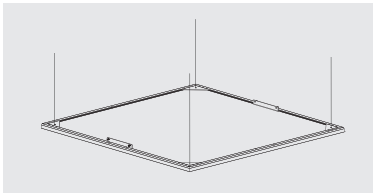

# Installation

### Embed



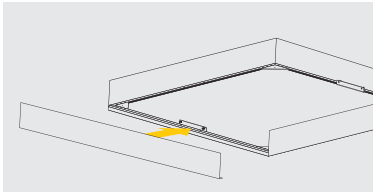
Suitable for 600mm x 600mm ceiling grid

### Suspended



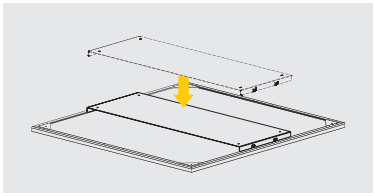
Uses with suspension kit KPTPNL/SUS

### Surface mount A



Use with surface mount kit A KPTPNL/SMT

### Surface mount B



Use with surface mount kit B KPTPNL/SMT-ECO2

Emergency conversion with:
**Universal Emergency Module**


## General Specification

**Voltage** 220-240Vac 50-60Hz
**CRI** >80
**Life Time** 40,000hrs
**Power Factor** >0.95
**Housing** Anodized aluminum
**Diffuser** Polycarbonate (TPa)
**Protection** Class II, IP44 (when ceiling recessed mounted)

# ECO | *Design*

## Optic Guide

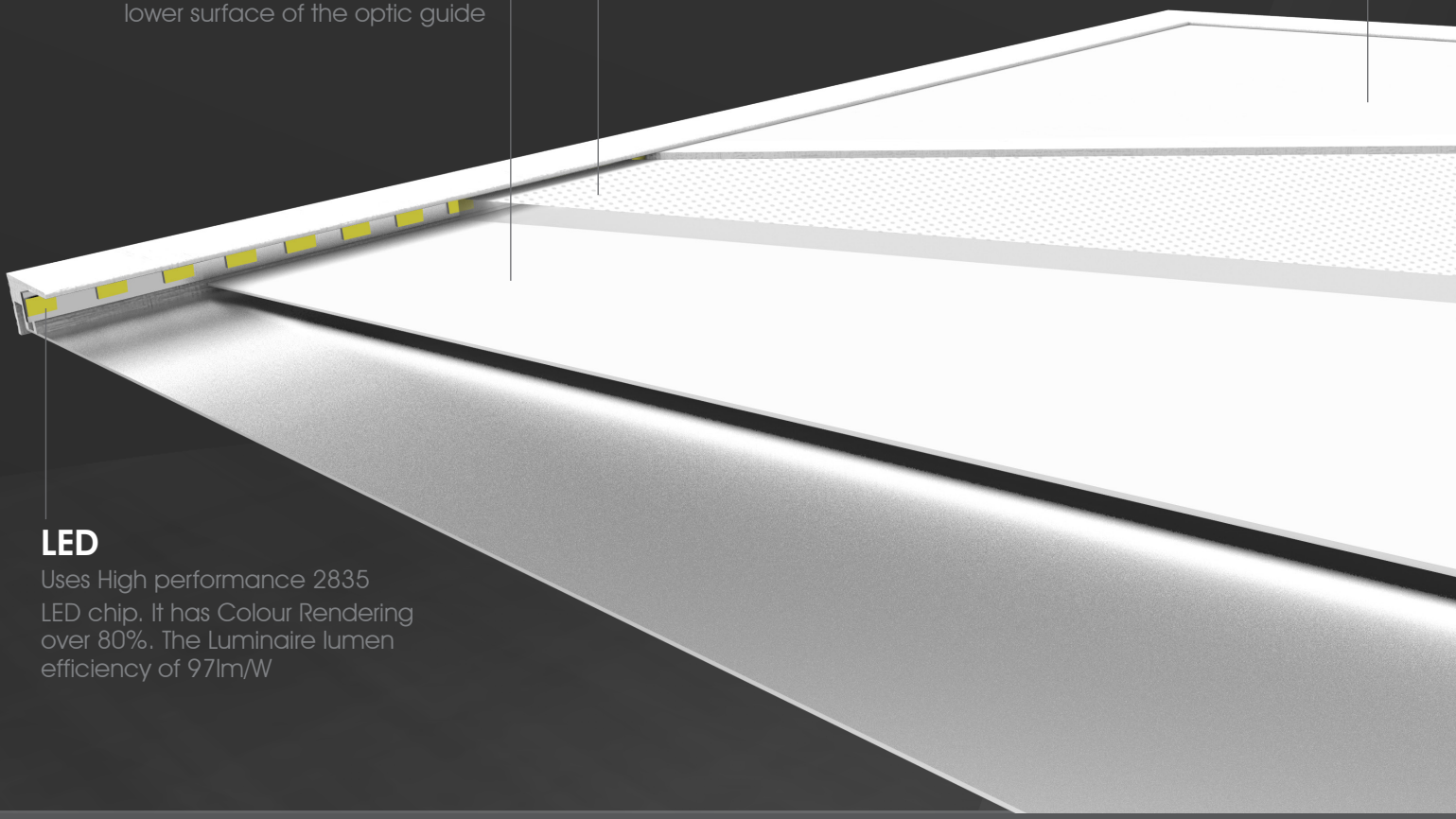
The LED chips are placed facing the edge of the optic Guide. The lights travel horizontally through the optic guide and being guided to the upper surface by the micro lens that are laser engraved with in the optic guide. The arrangement of the micro lens is optimised to ensure highest efficiency and even distribution of lights

## Reflecting sheet

This PET based reflecting sheet has a reflective rate above 97%. It is placed under the optic guide board. It reflects back light that exit from the lower surface of the optic guide

## Polycarbonate diffuser

This polycarbonate diffuser has fire resistance rating of TP(b). The transmittance of this diffuser is over 90%



## LED

Uses High performance 2835 LED chip. It has Colour Rendering over 80%. The Luminaire lumen efficiency of 97lm/W

## TPa

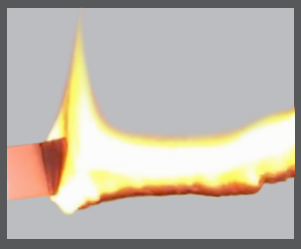
Self-extinguishes after 5 seconds

## TPb

Self-extinguishes after 30 seconds

## Polypropylene

Ignites immediately burning with toxic smoke & dripping molten plastic. Does not extinguish.



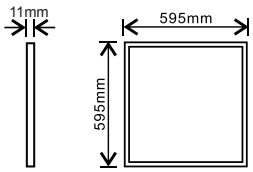
## Polystyrene

Ignites immediately with a large flame, severe smoke and dripping plastic. Does not extinguish.

# Specifications

## 30W

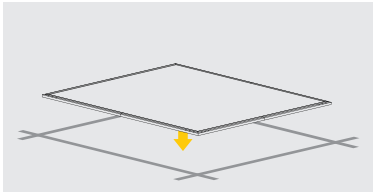
595*595




| | |
|---|---|
| Power | 30W |
| Input Current | 137mA |
| Finish | White |
| Colour | 4000K |
| Lumen | 2900lm |
| Order Code | KPNLE30QF0606 |

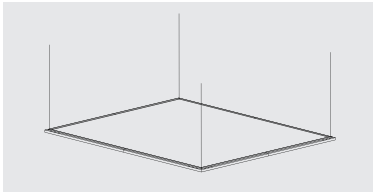
# Installation

### Embed



Suitable for 600mm x 600mm ceiling grid

### Suspended



Uses with suspension kit KPTPNL/SUS

Emergency conversion with:
**Universal Emergency Module**


# General Specification

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