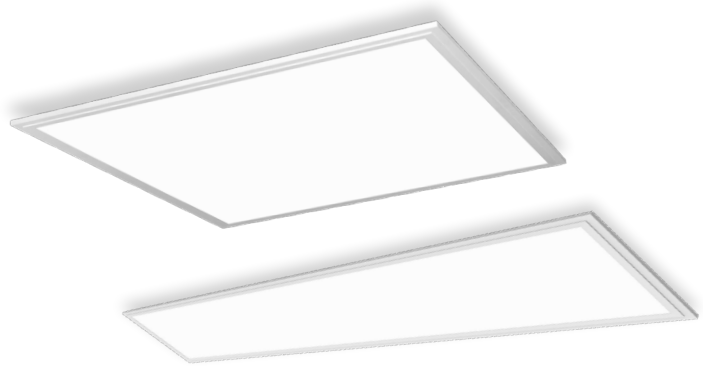


# Edgelit Premium Panel



## Product information

Tungsrám LED luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off they appear completely free of a visible light source. Designed to replace fluorescent fixtures in suspended T grid ceilings.

## Features and Benefits

### LED technology

- Long life
- Energy efficient (up to 120 lm/W delivered at 4000K & 6500K)
- No pollution for the environment
- RoHS compliant
- Mercury free, no IR or UV radiation
- Two types of Unified Glare Rating ( UGR ) as per different applications' requirements UGR <19 & UGR 21

### Control

- Available with static or Dali driver

### Uniform illuminated surface

- No visible diodes or glare
- Superior performance
- Broad uniform light distribution, reducing the number of luminaires needed to light a space

### Slim profile

- Can be used in ceilings with limited space

### Long life (50,000 hours at L80/B50 @ 20C)

- Reduces the need for frequent lamp changes

### Durable

- Resistant to vibration and impact

### No IR or UV radiation

- Suitable for lighting fragile objects in shops, museums or on display

Easy to install into 15mm or 24mm exposed tee grid ceilings

## Application areas



General lighting



Retail



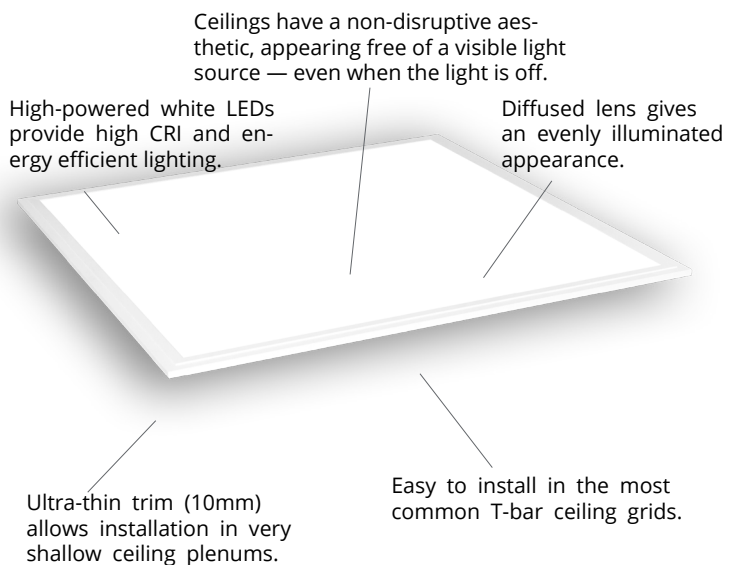
Office



Education



Healthcare



## Specification summary

| Product Code                        | Product Code (DS) | Description Code                       | Watt. (W) | Lumen (Lm) | Efficiency (lm/W) | CCT (K) | Beam pattern (°) | UGR value | Driver | IP rating (front) | Product thickness (mm) |
|-------------------------------------|-------------------|----------------------------------------|-----------|------------|-------------------|---------|------------------|-----------|--------|-------------------|------------------------|
| <b>Size 595x595mm</b>               |                   |                                        |           |            |                   |         |                  |           |        |                   |                        |
| 93101657                            | -                 | LED Panel P1 TU 2x2 S 30W 830 21       | 30        | 3400       | 113               | 3000    | 110              | 21        | static | 40                | 10                     |
| 93101659                            | -                 | LED Panel P1 TU 2x2 S 30W 830 19       | 30        | 3200       | 107               | 3000    | 80               | <19       | static | 40                | 10                     |
| 93101658                            | 93103650          | LED Panel P1 TU 2x2 S 30W 840 21       | 30        | 3600       | 120               | 4000    | 110              | 21        | static | 40                | 10                     |
| 93101660                            | 93103651          | LED Panel P1 TU 2x2 S 30W 840 19       | 30        | 3600       | 120               | 4000    | 80               | <19       | static | 40                | 10                     |
| 93107537                            | 93103675          | LED Panel P1 TU 2x2 S 30W 865 21       | 30        | 3600       | 120               | 6500    | 110              | 21        | static | 40                | 10                     |
| 93107539                            | 93103677          | LED Panel P1 TU 2x2 S 30W 862 19       | 30        | 3600       | 120               | 6200    | 80               | <19       | static | 40                | 10                     |
| 93101669                            | -                 | LED Panel P1 TU 2x2 D 40W 830 21       | 40        | 4200       | 105               | 3000    | 110              | 21        | DALI   | 40                | 10                     |
| 93101670                            | -                 | LED Panel P1 TU 2x2 D 40W 830 19       | 40        | 4200       | 105               | 3000    | 80               | <19       | DALI   | 40                | 10                     |
| 93101671                            | 93103671          | LED Panel P1 TU 2x2 D 40W 840 21       | 40        | 4400       | 110               | 4000    | 110              | 21        | DALI   | 40                | 10                     |
| 93101672                            | 93103672          | LED Panel P1 TU 2x2 D 40W 840 19       | 40        | 4400       | 110               | 4000    | 80               | <19       | DALI   | 40                | 10                     |
| 93108092                            | 93103689          | LED Panel P1 TU 2x2 D 40W 865 21       | 40        | 4800       | 120               | 6500    | 110              | 21        | DALI   | 40                | 10                     |
| 93108093                            | 93103690          | LED Panel P1 TU 2x2 D 40W 862 19       | 40        | 4800       | 120               | 6200    | 80               | <19       | DALI   | 40                | 10                     |
| 93104960                            | -                 | LED Panel P1 TU 2x2 S 30W 840 21 IP54  | 30        | 3400       | 113               | 4000    | 110              | 21        | static | 54                | 13                     |
| 93104961                            | -                 | LED Panel P1 TU 2x2 S 30W 840 19 IP54  | 30        | 3300       | 110               | 4000    | 80               | <19       | static | 54                | 13                     |
| <b>Size 295x1295mm</b>              |                   |                                        |           |            |                   |         |                  |           |        |                   |                        |
| 93108083                            | -                 | LED Panel P1 TU 1x4 S 30W 830 21       | 30        | 3300       | 110               | 3000    | 110              | 21        | static | 40                | 10                     |
| 93101675                            | -                 | LED Panel P1 TU 1x4 S 30W 830 19       | 30        | 3300       | 110               | 3000    | 80               | <19       | static | 40                | 10                     |
| 93107525                            | 93103652          | LED Panel P1 TU 1x4 S 30W 840 21       | 30        | 3600       | 120               | 4000    | 110              | 21        | static | 40                | 10                     |
| 93107526                            | 93103653          | LED Panel P1 TU 1x4 S 30W 840 19       | 30        | 3600       | 120               | 4000    | 80               | <19       | static | 40                | 10                     |
| 93107538                            | 93103676          | LED Panel P1 TU 1x4 S 30W 865 21       | 30        | 3600       | 120               | 6500    | 110              | 21        | static | 40                | 10                     |
| 93107540                            | 93103678          | LED Panel P1 TU 1x4 S 30W 865 19       | 30        | 3600       | 120               | 6500    | 80               | <19       | DALI   | 40                | 10                     |
| 93108080                            | -                 | LED Panel P1 TU 1x4 D 40W 830 21       | 40        | 4200       | 105               | 3000    | 110              | 21        | DALI   | 40                | 10                     |
| 93101674                            | -                 | LED Panel P1 TU 1x4 D 40W 830 19       | 40        | 4000       | 100               | 3000    | 80               | <19       | DALI   | 40                | 10                     |
| 93108081                            | 93103673          | LED Panel P1 TU 1x4 D 40W 840 21       | 40        | 4500       | 113               | 4000    | 110              | 21        | DALI   | 40                | 10                     |
| 93108082                            | 93103674          | LED Panel P1 TU 1x4 D 40W 840 19       | 40        | 4000       | 100               | 4000    | 80               | <19       | DALI   | 40                | 10                     |
| 93108094                            | 93103691          | LED Panel P1 TU 1x4 D 40W 865 21       | 40        | 4200       | 105               | 6500    | 110              | 21        | DALI   | 40                | 10                     |
| 93108095                            | 93103692          | LED Panel P1 TU 1x4 D 40W 865 19       | 40        | 4200       | 105               | 6500    | 80               | <19       | DALI   | 40                | 10                     |
| 93104956                            | -                 | LED Panel P1 TU 1x4 S 59W 840 21 HO    | 59        | 6300       | 107               | 4000    | 110              | 21        | static | 40                | 10                     |
| 93104957                            | -                 | LED Panel P1 TU 1x4 S 59W 840 19 HO    | 59        | 5900       | 100               | 4000    | 80               | <19       | static | 40                | 10                     |
| <b>Size 595x1295mm***</b>           |                   |                                        |           |            |                   |         |                  |           |        |                   |                        |
| 93104958                            | -                 | LED Panel P1 TU 2x4 S 59W 840 21/2     | 59        | 6300       | 107               | 4000    | 110              | 21        | static | 40                | 13                     |
| 93104959                            | -                 | LED Panel P1 TU 2x4 S 59W 840 19/2     | 59        | 6000       | 102               | 4000    | 80               | <19       | static | 40                | 13                     |
| <b>Adjustable Accessories* / **</b> |                   |                                        |           |            |                   |         |                  |           |        |                   |                        |
| 93107527                            | 93103654          | SUSPENSION KIT 2X2 LED PANEL           |           |            |                   |         |                  |           |        |                   |                        |
| 93107541                            | 93103679          | SUSPENSION KIT 1X4 LED PANEL           |           |            |                   |         |                  |           |        |                   |                        |
| 93108104                            | -                 | Surface mounting KIT Edgelit 2x2 R9003 |           |            |                   |         |                  |           |        |                   |                        |
| 93104262                            | -                 | Surface mounting KIT 2x2 R9003         |           |            |                   |         |                  |           |        |                   |                        |
| 93108108                            | -                 | Surface mounting KIT Edgelit 1x4 R9003 |           |            |                   |         |                  |           |        |                   |                        |
| 93104264                            | -                 | Surface mounting KIT 1x4 R9003         |           |            |                   |         |                  |           |        |                   |                        |
| 93107567                            | 93103721          | Plasterboard Mount KIT for Edgelit     |           |            |                   |         |                  |           |        |                   |                        |

\* accessories to be ordered separately

\*\* not applicable with IP54 and 595x1195mm panels

\*\*\* available in brown twinbox package

## Common attributes

- **Rated life L70:** 50 000hrs
- **CRI:** 80+

# Specifications

|                                  | 2x2<br>(595x595mm)                                                                    |           | 1x4<br>(295x1195mm) |           | 1x4 HO<br>(295x1195mm) | 2x4<br>(595x1195mm) | 2x2 IP54<br>(595x595mm) |
|----------------------------------|---------------------------------------------------------------------------------------|-----------|---------------------|-----------|------------------------|---------------------|-------------------------|
| Input Voltage (AC) (V)           | 220...240                                                                             |           |                     |           |                        |                     |                         |
| Control                          | Static                                                                                | DALI      | Static              | DALI      | Static                 | Static              | Static                  |
| Power Consumption (typical) (W)  | 30                                                                                    | 40        | 30                  | 40        | 59                     | 59                  | 30                      |
| Input Frequency (Hz)             | 50/60                                                                                 |           |                     |           |                        |                     |                         |
| Power Factor                     | Min 0.9                                                                               |           |                     |           |                        |                     |                         |
| CCT (K)                          | 3000/4000/6500                                                                        |           |                     |           | 4000                   |                     |                         |
| CRI (color rendering index)      | Min 80                                                                                |           |                     |           |                        |                     |                         |
| Ceilings                         | T Grid Lay-In / Suspended / Surface mounted                                           |           |                     |           |                        | T Grid Lay-In       |                         |
| Life (h)                         | 50,000                                                                                |           |                     |           |                        |                     |                         |
| Lumen Maintenance                | L70@B50                                                                               |           |                     |           |                        |                     |                         |
| Warranty period                  | 5 years (20 000 hours)                                                                |           |                     |           |                        |                     |                         |
| Files Available                  | LM79, IES, LDT                                                                        |           |                     |           |                        |                     |                         |
| Panel Dimension (mm)             | 595*595*10                                                                            |           | 295*1195*10         |           |                        | 595*1195*13         | 595*595*13              |
| Driver Dimension (mm)            | 200*40*22                                                                             | 215*70*31 | 200*40*22           | 215*70*31 | 235*43*32              | 235*43*32           | 200*40*22               |
| Total Weight (Kg)                | 3.22                                                                                  | 3.30      | 3.22                | 3.30      | 2.8                    | 6.5                 | 3.6                     |
| Panel weight (Kg)                | 3.10                                                                                  | 3.10      | 3.10                | 3.10      | 2.5                    | 6.2                 | 3.48                    |
| Driver weight (Kg)               | 0.12                                                                                  | 0.20      | 0.12                | 0.20      | 0.3                    | 0.3                 | 0.12                    |
| Operating Temperature range (°C) | -10C .. +40C degree                                                                   |           |                     |           |                        |                     |                         |
| Humidity (Non condensing)        | 20 to 80 % Non-condensing, dry location                                               |           |                     |           |                        |                     |                         |
| Storage Temperature Range (°C)   | -40 degree C...+60 degree C                                                           |           |                     |           |                        |                     |                         |
| Isolation Class                  | Class II                                                                              |           |                     |           |                        |                     |                         |
| IP rating (general panel)        | IP40                                                                                  |           |                     |           |                        | IP54                |                         |
| IP rating Driver                 | IP20                                                                                  |           |                     |           |                        |                     |                         |
| Product color                    | RAL 9003                                                                              |           |                     |           |                        |                     |                         |
| Material                         | Powder coated AL profile frame. Back plate: Thin coated steel or white powder coated. |           |                     |           |                        |                     |                         |
| Waveguide                        | PMMA                                                                                  |           |                     |           |                        |                     |                         |
| Diffuser material                | PG-383                                                                                |           |                     |           |                        | PC                  | PG-383                  |

## Regulatory and standards

**Regulatory mark:** CE

**Regulations:** 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU/1194/2012 amended by EU 2015/1428, (framework 2010/30/EC) 874/2012 and 518/2014\*, 2012/19/EU\*

**Harmonized standards:** EN 60598, EN 62493, EN 61547, EN55015, EN 61000,

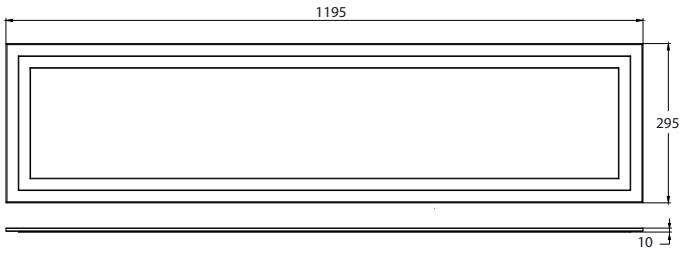
look for CE Declaration of Conformity and Technical File for details

Photobiological risk assesment group 0. The product is considered safe, does not pose any photobiological hazard

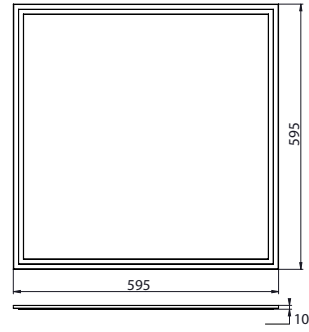
\*not on DOC

# Dimensions (mm)

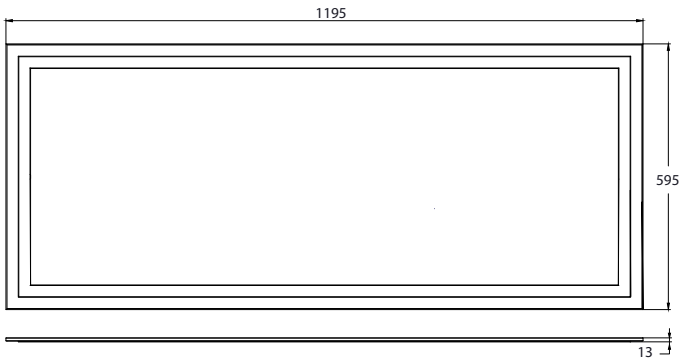
Panel 1x4



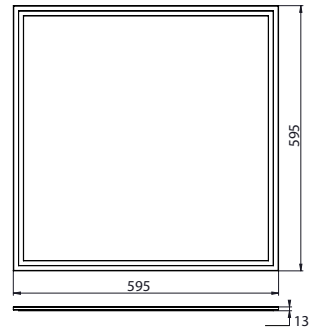
Panel 2x2



Panel 2x4



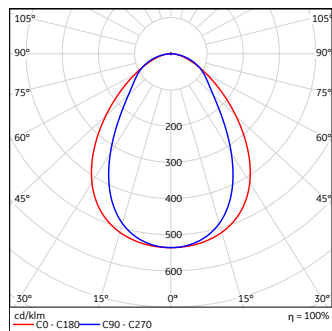
Panel 2x2 IP54



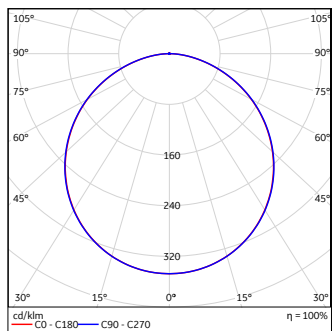
# Photometric data

4000K

2x2 panel - Static

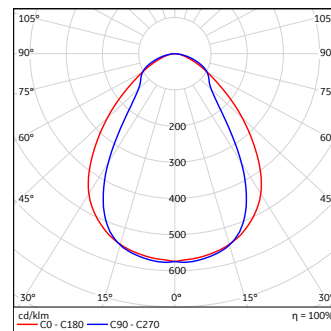


2x2 UGR19

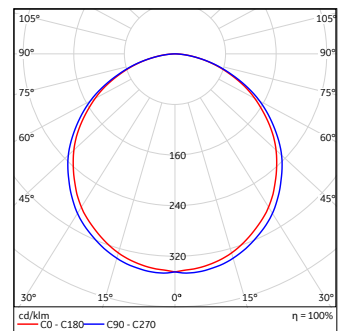


2x2 UGR21

1x4 panel - Static

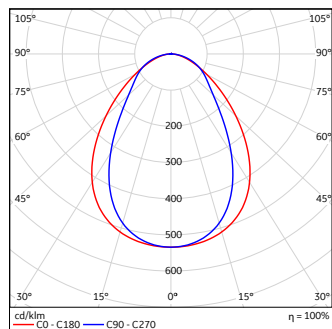


1x4 UGR19

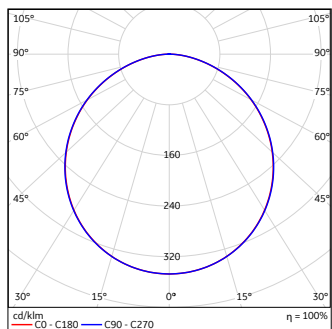


1x4 UGR21

2x2 panel - DALI

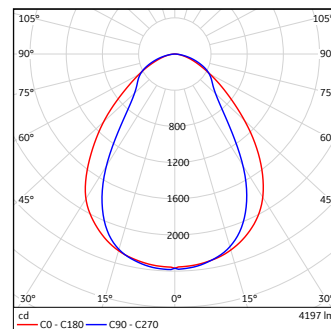


2x2 UGR19

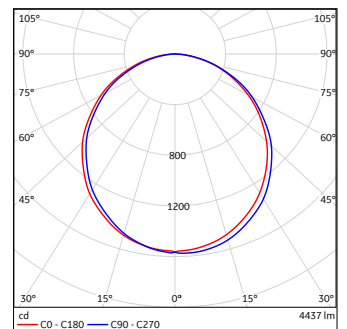


2x2 UGR21

1x4 panel - DALI

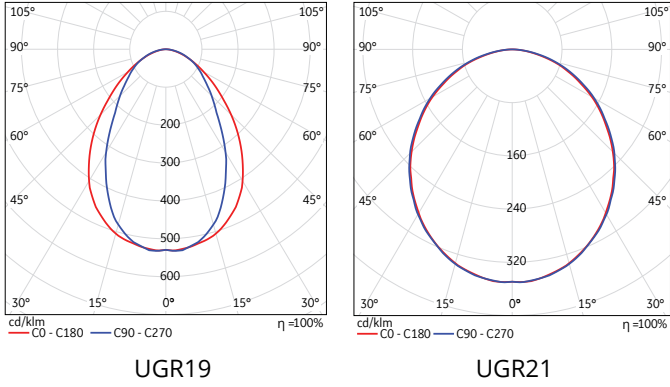


1x4 UGR19



1x4 UGR21

## 2x2 static Edgelit panel light intensity distribution curves for emergency mode



Photometry is based on LM79

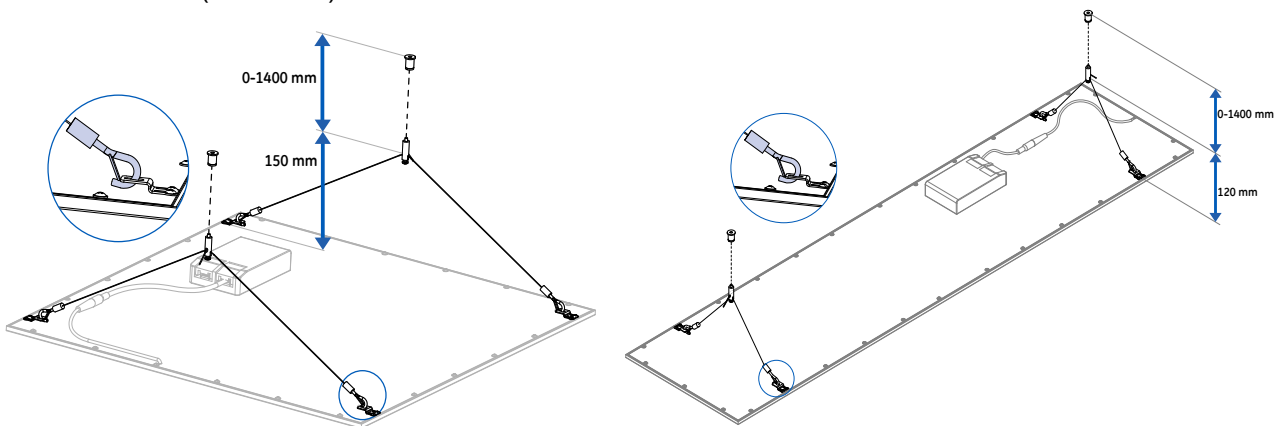
## Order logic

| Internal Code | Range       | Generation       | Brand         | Fixture size      | Control                | System W          | CRI  | CCT      | UGR                       | Shipment / other                                                       | Pack type         |
|---------------|-------------|------------------|---------------|-------------------|------------------------|-------------------|------|----------|---------------------------|------------------------------------------------------------------------|-------------------|
| LED Panel     | P - Premium | 1 - Generation 1 | TU - TUNGSRAM | 2x2 - 595x 595mm  | D - DALI<br>S - STATIC | 30W<br>40W<br>59W | 8-80 | 30-3000K | 21 - UGR21<br>19 - <UGR19 | DS - Direct Shipment<br>IP54 - IP54 rating<br>HO - High output version | /2 - 2PCS per box |
|               |             |                  |               | 1x4 - 295x 1195mm |                        |                   |      | 40-4000K |                           |                                                                        |                   |
|               |             |                  |               | 2x4 - 595x 1195mm |                        |                   |      | 40-4000K |                           |                                                                        |                   |
|               |             |                  |               |                   |                        |                   |      | 62-6200K |                           |                                                                        |                   |
|               |             |                  |               |                   |                        |                   |      | 65-6500K |                           |                                                                        |                   |

## MOUNTING ACCESSORIES

### SUSPENSION KIT (ADJUSTABLE NON-POWERFEED CEILING ASSEMBLY KIT)

We offer suspension kit to hang the Edgelit light fixtures from the ceiling . The adjustable cable set contains 2 kits of hooks, cables and self tapping screws . This set ensures that the fixture is mounted securely. Specification of the set ( 2 kits/ set )



Set for 2\*2 Edgelit panel

Set for 1\*4 Edgeli panel

| Components           | Material / size                                                                       | Qty pcs | Material / size                                                                       | Qty pcs |
|----------------------|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|---------|
| Stainless Steel Hook | SPCCT=2                                                                               | 4       | SPCCT=2                                                                               | 4       |
| Sling ( Wire )       | SUS304<br>Main ( adjustable ) wire length: 1400 mm<br>Separate wire length 560 mm     | 2       | SUS304<br>Main ( adjustable ) wire length: 1400 mm<br>Separate wire length 310 mm     | 2       |
| Self-tapping screw   | SUS304<br>M4*6                                                                        | 8       | SUS304<br>M4*6                                                                        | 8       |
| SKU & Description    | 93055969 - SUSPENSION KIT 2X2 LED PANEL<br>93055986 - SUSPENSION KIT 2X2 LED PANEL DS |         | 93060875 - SUSPENSION KIT 1X4 LED PANEL<br>93060876 - SUSPENSION KIT 1X4 LED PANEL DS |         |

## SURFACE MOUNTING KIT

Suitable for 2x2 or 1x4 Edgelit LED panels.

It's ideal for applications where recessed mounting is not possible.

The pre-assembled mounted box is available in 2 different white color in 2x2 panel size. The steel surface mounted box can be easily installed. The frame has a depth of 65mm to accommodate the LED driver / emergency pack.



93082876 - SURFACE MOUNTING KIT EDGELIT 2X2 R9003

93082877 - SURFACE MOUNTING KIT EDGELIT 2X2 R9010

93082878 - SURFACE MOUNTING KIT EDGELIT 1X4 R9010

## PLASTERBOARD MOUNT KIT for Edgelit panels (93082882)

The set contains 4 metal clips and 8 pcs Ø3x8 and 8 pcs Ø4x6 screws to fix the clips at the back of the panels.



## 93082880 EMBM02-3-N Emergency box for static Edgelit panels

The emergency kit is designed to be compatible with GE Edgelit LED panels. The list of compatible panels can be found at page 2.

The Emergency KIT contains driver, Ni-Cd battery and green indicator LED. The emergency box can provide 230lm output for 3hr in emergency mode.

