

## FICHE PRODUIT LF06S -840-P

LINEARlight FLEX® Protect ShortPitch | Modules LED pour des applications professionnelles et industrielles



### Zones d'application

- For high-end application with dedicated equipment and accessories

### Avantages du produit

- Color consistency up to 2 SDCM on entire light strip thanks to Single-bin technology
- Color rendering options  $R_a$ : 80 and 90
- Service lifetime (L80/B10): up to 60,000 h
- LM79 and LM80 compliant
- Embedded constant current regulators
- No solder-joints on circuit board
- Type of protection: IP67 due to high performance silicon
- Flexible and cuttable LED strips
- Dimmable (with suitable PWM dimming methods)

### Caractéristiques du produit



- Flexible and cuttable LED strip
- Luminous flux: up to 810 lm/m
- Type of protection: IP67
- Dimmable with PWM technology
- Fine White (3.5 SDCM)

DONNÉES TECHNIQUES

DONNÉES ÉLECTRIQUES

|                              |                     |
|------------------------------|---------------------|
| Puissance nominale           | 49.80 W             |
| Puissance nominale par mètre | 9,6 W               |
| Tension nominale             | 24 V                |
| Type de courant              | Courant direct (DC) |
| Intensité nominale           | 2100,000 mA         |

Données photométriques

|                                 |         |
|---------------------------------|---------|
| Efficacité lumineuse            | 73 lm/W |
| Flux lumineux                   | 4200 lm |
| Flux lumineux par mètre         | 700 lm  |
| Temp. de couleur                | 4000 K  |
| Ra Indice de rendu des couleurs | > 80    |
| Couleur de la LED               | Blanc   |
| Teinte de couleur (désignation) | 4000 K  |

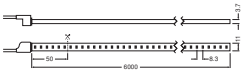
Données techniques légères

|                      |       |
|----------------------|-------|
| Angle de rayonnement | 120 ° |
|----------------------|-------|

LED MODULE INFORMATION

|                             |     |
|-----------------------------|-----|
| Nombre de LED par mètre     | 120 |
| Nombre de LED par module    | 720 |
| Nombre de LED par composant | 6   |

DIMENSIONS ET POIDS



|                                          |          |
|------------------------------------------|----------|
| Longueur                                 | 6000 mm  |
| Longueur – composant seul                | 50,0 mm  |
| Longueur de câble                        | 500.000  |
| Largeur                                  | 11,10 mm |
| Largeur (y compris les luminaires ronds) | 11.10 mm |

|                                       |                      |
|---------------------------------------|----------------------|
| Hauteur                               | 3,70 mm              |
| Hauteur (luminaires cycliques inclus) | 3.70 mm              |
| Section du câble au primaire          | 0,34 mm <sup>2</sup> |
| Section du conducteur                 | 0.34 mm <sup>2</sup> |
| LED pitch                             | 8,3 mm               |
| Poids du produit                      | 330,00 g             |

## COULEURS ET MATÉRIAUX

|                    |       |
|--------------------|-------|
| Couleur du produit | Blanc |
|--------------------|-------|

## TEMPÉRATURES ET CONDITIONS DE FONCTIONNEMENT

|                                          |                           |
|------------------------------------------|---------------------------|
| Plage de température ambiante            | -20...+50 °C              |
| Température maximale au point de test    | 70 °C                     |
| Plage de température au point Tc         | -20...70 °C <sup>1)</sup> |
| T° fonctionnement confit norme IEC 62717 | 40 °C <sup>2)</sup>       |

1) Le dépassement des valeurs maximales réduira la durée de vie prévue ou détruira le ruban LED.

2) Classé Tp. Le point Tp coïncide avec le point Tc - marqué sur l'appareil

## CAPACITÉS

|                              |                    |
|------------------------------|--------------------|
| Gradable                     | Oui                |
| Gradateur                    | PWM                |
| Type d'installation          | Montage en surface |
| Plus petit rayon de courbure | 50 mm              |
| Auto-adhésif                 | Oui                |

## CERTIFICATS ET NORMES

|                           |                |
|---------------------------|----------------|
| Normes                    | CE / ENEC      |
| Type de protection        | IP67           |
| Consommation d'énergie    | 4.50 kWh/1000h |
| Classe d'énergie efficace | A+             |

## DONNÉES LOGISTIQUES

|                                  |               |
|----------------------------------|---------------|
| Plage de température de stockage | -40...+105 °C |
|----------------------------------|---------------|

## ÉQUIPEMENT / ACCESSOIRES

- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Connectors: quick-and-easy toolless installation with SLIMCONNECTsystem G2

- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE
- Check for more detailed information the specification sheets in the download section

## INFORMATIONS SUPPLÉMENTAIRES SUR LE PRODUIT

- Some LED modules are equipped with a self-adhesive tape for attaching the LED module to suitable materials, such as aluminum profiles, which must be clean and free of oil or silicone coatings, as well as other dirt/dust particles. The adhesive tape is intended for single use and if removed may damage the material to which it is stuck and the LED module itself, which must then be scrapped. Use the adhesive tape when the installation material temperature is in the 18 °C...35 °C range. Complete adhesion takes up to 72 h.
- LED modules are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.
- If the operating environment covers a broad temperature range (e.g. outdoor applications) and the operating length is longer than 2 m, the use of adequate mounting surfaces is required. The use of an additional thicker adhesive tape between LED module and mounting surface is also recommended in order to absorb the stress of any mismatch in expansion. Assure enough space for module expansion with increasing temperature.
- The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H<sub>2</sub>S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H<sub>2</sub>S may be rubber, foam rubber, soft-foam tapes, rubber-based sealing, natural sources (e.g. sulfur springs), etc. To avoid H<sub>2</sub>S from sulfur-vulcanized rubber use silicon-based materials or peroxide-crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.
- IP00 LED modules, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment is possible, however materials must be selected properly in order to avoid product damage or impaired performance; the user must also completely seal the cut parts (ends/edges).
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable IP protection class.
- Consult OSRAM Technical Service for further advice.
- Only a qualified electrician may install the module.
- Handle with care and ensure that there is no mechanical product damage, including damage to invisible internal electronics parts.
- Exceeding maximum operating and storage temperature ratings can reduce the expected lifetime or even destroy the LED module. The temperature of the LED module must be measured at the T<sub>c</sub>-point in accordance with EN 60598-1 under steady-state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the T<sub>c</sub>-point.
- Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED module.
- Installation of LED modules and connection to the power supply must comply with all applicable electrical and safety standards.
- Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Never exceed the maximum operable length, including daisy-chaining connections.
- Always ensure electrical isolation between the LED module and the mounting surface, especially in the vicinity of connections or cut ends.
- IP00 LED modules are ESD-sensitive; take adequate precautions during installation and operation of the products.
- Use only SELV LED drivers in accordance with applicable lighting standards and LED module ratings. In order to safely operate OSRAM LED modules it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. To simplify the approval process of the luminaire/installation, the electronic power supplies control gear for LED modules must bear the CE and ENEC marking. In Europe the Declarations of Conformity must include at least the following standards: EN 61347-2-13, EN 55015, EN 61547 and EN 61000-3-2. ENEC certification will be based on EN 61347-2-13 and EN 62384. OSRAM OPTOTRONIC LED drivers comply with all relevant standards and guarantee safe operation; see the relevant brochure for more detailed information about OSRAM OPTOTRONIC.
- Avoid installations in rural and urban areas with high industrial activity and heavy traffic (higher than class 4C1 according IEC 60721-3) and as well as installation in spa, areas with chlorine atmosphere, direct exposure to blown sand.

## TÉLÉCHARGEMENTS

| Documents et certificats                                                         |                                                            | Nom du document                  |
|----------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|
|  | Instructions pour l'utilisateur / instructions de sécurité | LINEARlight FLEX Protect         |
| Photométrie et fichiers pour études d'éclairage                                  |                                                            | Nom du document                  |
|  | Fichier LDT (Eulumdat)                                     | 722868_Eulumdat file LF06S-840-P |

DONNÉES LOGISTIQUES

| Code produit  | Unité d'emballage (Pièces/Unité) | Dimensions (longueur x largeur x hauteur) | Poids approximatif | ' Volume  |
|---------------|----------------------------------|-------------------------------------------|--------------------|-----------|
| 4052899092150 | Etui carton fermé<br>1           | 353 mm x 349 mm x 32 mm                   | 809.00 g           | 3.94 dm³  |
| 4052899092167 | Carton de regroupement<br>8      | 365 mm x 286 mm x 366 mm                  | 6663.00 g          | 38.21 dm³ |

Le code produit mentionné décrit la petite quantité d'unité qui peut être commandée. Une unité peut contenir un ou plusieurs produits. Lorsque vous passez la commande, merci de bien vouloir entrer une unité ou un multiple d'une unité.

AVERTISSEMENT

Sous réserve de modifications. Sauf erreur ou omission. Veuillez à toujours utiliser la version la plus récente.