

LINEARlight ADVANCED

Constant Voltage 24 V



Areas of application

- Coving
- Shelf and cupboard lighting

Product benefits

- Consistent white light (Standard Deviation of Color Matching SDCM: ≤ 3)
- Modules can be easily joined together to make seamless strip lighting
- Simple fixing thanks to mounting holes
- Low maintenance costs thanks to a lifetime of up to 50,000 h (L70/B50)

Product features

- Metal core board equipped with 14 LEDs
- Luminous flux comparable with T5 fluorescent lamps (8 W, 13 W)
- Luminous flux: 1,400 lm/m
- Integrated SMD plug connector (male/female) on both sides of the PCB
- Color rendering index R_a : typ. 85
- Dimmable
- Up to ten modules can be operated on one control gear
- Compatible with LINEARlight POWER and ECO



Product family datasheet

Technical data

Electrical data

| Product description | Nominal voltage | Rated wattage | Reverse Voltage | Type of current | Voltage range |
|---------------------|-----------------|---------------|-----------------|-----------------|---------------|
| LR14A -W2F-830 | 24.00 V | 4.70 W | 25 V | DC | 23...25 V |
| LR14A -W2F-840 | 24.00 V | 4.70 W | 25 V | DC | 23...25 V |

Photometrical data

| Product description | Color temperature | Color rendering index Ra | Light color as per EN 12464-1 | Light color LED | Luminous flux | Luminous efficacy |
|---------------------|-------------------|--------------------------|-------------------------------|-----------------|---------------|-------------------|
| LR14A -W2F-830 | 3000 K | >80 | Warm White | white | 400 lm | 85 lm/W |
| LR14A -W2F-840 | 4000 K | >80 | Cool White | white | 400 lm | 85 lm/W |

Light technical data

| Product description | Beam angle |
|---------------------|------------|
| LR14A -W2F-830 | 120 ° |
| LR14A -W2F-840 | 120 ° |

LED module information

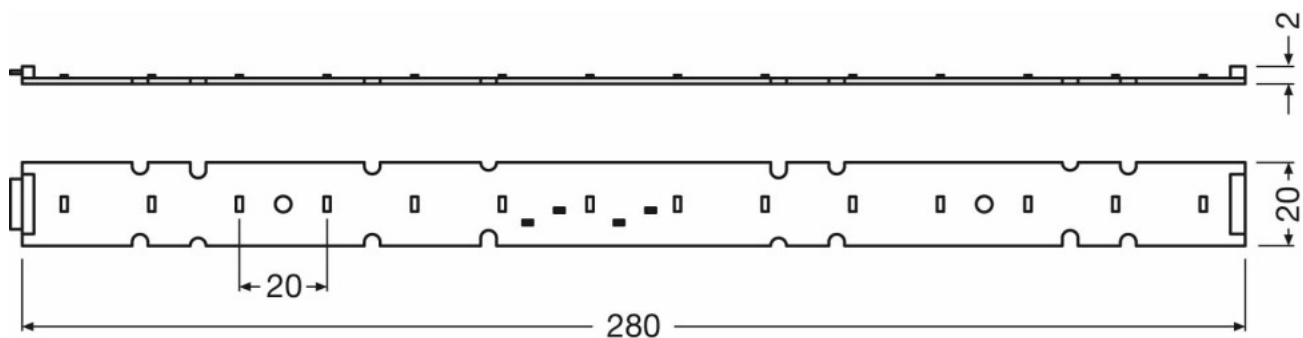
| Product description | Number of LEDs per module |
|---------------------|---------------------------|
| LR14A -W2F-830 | 14 |
| LR14A -W2F-840 | 14 |

Dimensions & weight

| Product description | Product weight | Length | Width | Height |
|---------------------|----------------|----------|---------|--------|
| LR14A -W2F-830 | 26.00 g | 280.0 mm | 20.0 mm | 2.0 mm |
| LR14A -W2F-840 | 26.00 g | 280.0 mm | 20.0 mm | 2.0 mm |

Product family datasheet

Product line drawing



LR14A -W2F-830, LR14A -W2F-840

Temperatures

| Product description | Maximum temperature at tc test point | Temperature range in operation | Temperature range at storage |
|---------------------|--------------------------------------|--------------------------------|------------------------------|
| LR14A -W2F-830 | 65 °C | -30...65 °C ¹⁾ | -30...90 °C |
| LR14A -W2F-840 | 65 °C | -30...65 °C ¹⁾ | -30...90 °C |

¹⁾ At the T_c point

Lifespan

| Product description | Lifespan |
|---------------------|-----------------------|
| LR14A -W2F-830 | 50000 h ¹⁾ |
| LR14A -W2F-840 | 50000 h ¹⁾ |

¹⁾ L70/B90 at T_c 65 °C

Capabilities

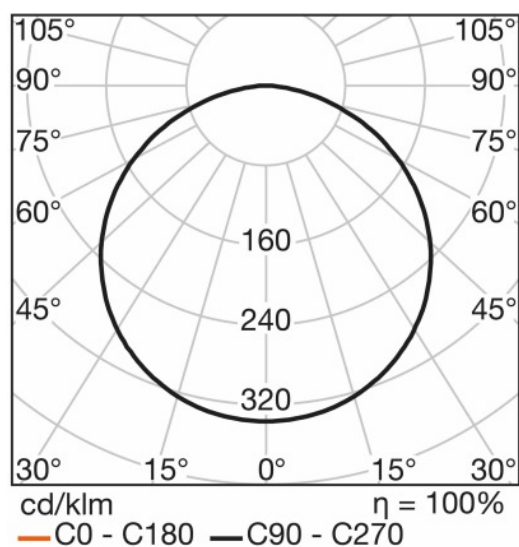
| Product description | Dimmable |
|---------------------|----------|
| LR14A -W2F-830 | Yes |
| LR14A -W2F-840 | Yes |

Product family datasheet

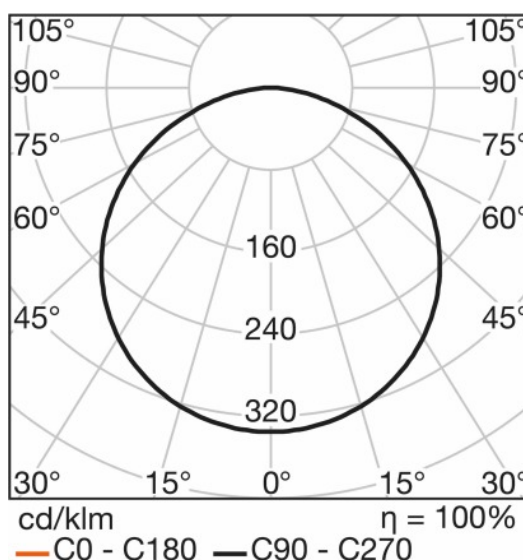
Certificates & standards

| Product description | Standards |
|---------------------|--|
| LR14A -W2F-830 | acc. to EC 61347-2-13/acc. to EN 55015/acc. to IEC 61547/acc. to IEC 61000-3-2/acc. to ENEC 61347-2-13/acc.to IEC/EN 62384 |
| LR14A -W2F-840 | acc. to EC 61347-2-13/acc. to EN 55015/acc. to IEC 61547/acc. to IEC 61000-3-2/acc. to ENEC 61347-2-13/acc.to IEC/EN 62384 |

Light Distribution



LR14A -W2F-830



LR14A -W2F-840

Equipment / Accessories

- CONNECTsystem LR
- Expandable via optional accessories to create an individual complete module

Application advice

For more detailed application information and graphics please see product datasheet.

Additional product information

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Please see the relevant application guides and instructions sheets for more detailed safety and mounting information.

Product family datasheet







Additional information is available on request.

- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 61347-1
- Complies with IEC/EN 61347-2-13
- Suitable for usage in furnitures (DIN 57710).
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM, OT DALI DIM, OT DALI DIM LI or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is strongly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the necessary operating parameters (voltage, current, power) has to be ensured.
- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the module.
- Use only coordinated LR-4PIN CONNECTsystem for electrical installation.
- Conducting paths on the circuit board must not be damaged or destroyed during installation.
- Luminaire must be cleaned regularly to avoid loss of luminous flux.
- The LED module itself and all its components must not be stressed mechanically.
- Operation in or under water is prohibited.
- Protect against splashes!
- The module, as manufactured, has no inherent protection against corrosion. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

| File | |
|---|--|
|  | Product Family Datasheet LINEARlight Advanced - LR14A (GB) |
|  | Certificates CB Test Certificate DE1-49856 for LINEARlight 24 V |
|  | Declarations of conformity EC-DoC LS_LRXXX-Linear Rigid |
|  | Declarations of conformity EC-Man-DoC LS_LRXXX-Linear Rigid |
|  | CAD data LINEARlight Advanced Drawing |
|  | Eulumdat LINEARLIGHT RIGID LR14A-W2F-830 |

Product family datasheet



Eulumdat
LINEARLIGHT RIGID LR14A-W2F-840

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4008321978400 | LR14A -W2F-830 | Shipping carton box 8 | 317 mm x 265 mm x 46 mm | 3.86 dm ³ | 330.00 g |
| 4008321971531 | LR14A -W2F-840 | Shipping carton box 8 | 317 mm x 265 mm x 46 mm | 3.86 dm ³ | 330.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.