

## LINEARlight ECO

Constant Voltage 24 V



### Areas of application

- Shelf and cupboard lighting
- Background lighting

### Product benefits

- Consistent white light (Standard Deviation of Color Matching SDCM:  $\leq 3$ )
- 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

- FR4 board equipped with 14 LEDs
- Luminous flux: 700 lm/m
- Integrated SMD plug connector (male/female) on both sides of the PCB
- Color rendering index  $R_a$ : typ. 85
- Dimmable
- Module efficacy: up to 96 lm/W
- Up to 17 modules can be operated on one control gear
- Compatible with LINEARlight POWER and ADVANCED



For more information please contact

**lightmoves** (03) 9701 2500  
info@lightmoves.com.au

138-146 Browns Rd, Noble Park VIC 3174

## Technical data

### Electrical data

Product description	Nominal voltage	Rated wattage	Reverse Voltage	Type of current
LR14E -W2F-830	24.00 V	2.30 W	25 V	DC
LR14E -W2F-840	24.00 V	2.30 W	25 V	DC

Product description	Voltage range
LR14E -W2F-830	23...25 V
LR14E -W2F-840	23...25 V

### Light technical data

Product description	Color temperature	Light color as per EN 12464-1	Light color LED	Luminous flux
LR14E -W2F-830	3000 K	Warm White	white	200 lm
LR14E -W2F-840	4000 K	Cool White	white	200 lm

Product description	Luminous efficacy	Beam angle
LR14E -W2F-830	87 lm/W	120 °
LR14E -W2F-840	87 lm/W	120 °

### LED module information

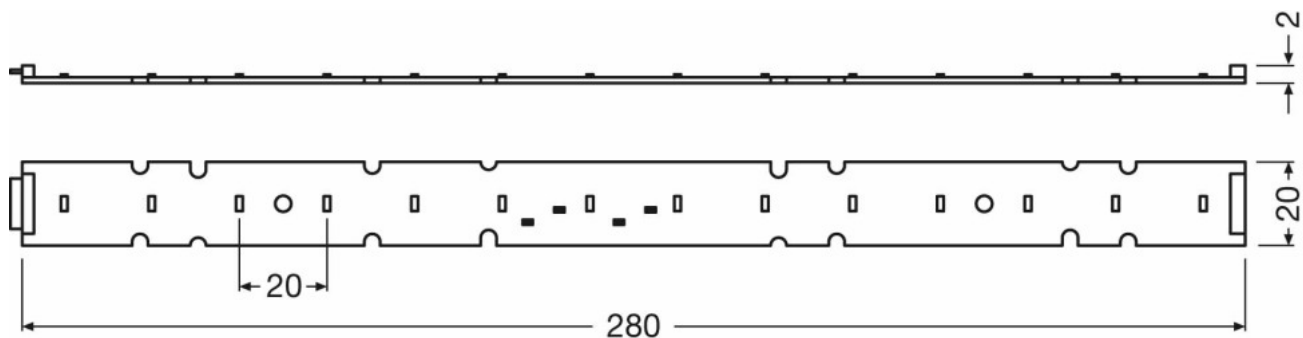
Product description	Number of LEDs per module
LR14E -W2F-830	14
LR14E -W2F-840	14

### Dimensions & weight

Product description	Length	Width	Height	Product weight
LR14E -W2F-830	280.0 mm	20.0 mm	2.0 mm	18.00 g
LR14E -W2F-840	280.0 mm	20.0 mm	2.0 mm	18.00 g

### Product line drawing

## Product family datasheet



Product line drawing

LR14E -W2F-830 | LR14E -W2F-840

## Colors & materials

Product description	Cover material	Body material
LR14E -W2F-830	Plastic	Anodised aluminum
LR14E -W2F-840	Plastic	Anodised aluminum

## Temperatures

Product description	Temperature range in operation
LR14E -W2F-830	-30...65 °C <sup>1)</sup>
LR14E -W2F-840	-30...65 °C <sup>1)</sup>

<sup>1)</sup> At the  $T_c$  point

## Lifespan

Product description	Lifespan
LR14E -W2F-830	50000 h <sup>1)</sup>
LR14E -W2F-840	50000 h <sup>1)</sup>

<sup>1)</sup> L70/B90 at  $T_c$  65 °C

# Product family datasheet

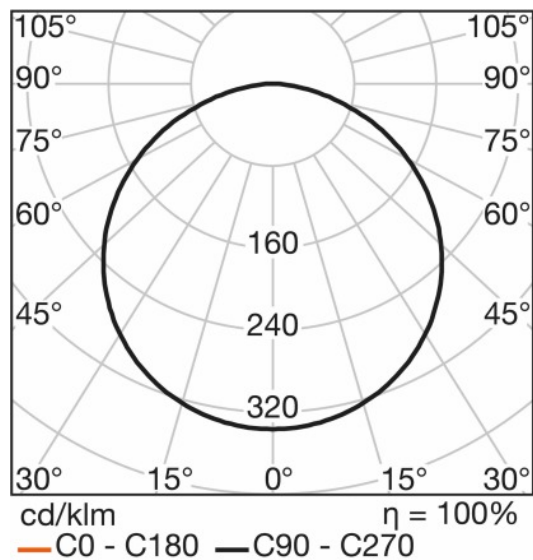
## Capabilities

Product description	Dimmable
LR14E -W2F-830	Yes
LR14E -W2F-840	Yes

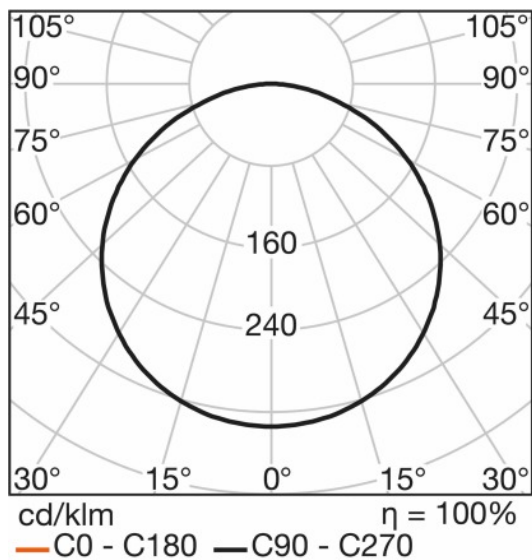
## Certificates & standards

Product description	Standards
LR14E -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
LR14E -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



LDC typ polar  
LR14E -W2F-830



LDC typ polar  
LR14E -W2F-840

## Product family datasheet

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### Equipment / Accessories

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

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### Application advice

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

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### Additional product information

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- 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. 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 OSARM 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.

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### Sales and Technical Support

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Sales and Technical Support [www.osram.com](http://www.osram.com)

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### Download Data

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## Product family datasheet

File	
	Product Family Datasheet LINEARlight Eco - LR14E (GB)
	Certificates CB Test Certificate DE1-49856 for LINEARlight 24 V
	Declarations of conformity DECLARATION OF COMFORMIT 2012 ZCI2808342 LR_LINEARlight (GB)
	CAD data LINEARlight Eco Drawing
	Eulumdat LINEARLIGHT RIGID LR14E-W2F-830
	Eulumdat LINEARLIGHT RIGID LR14E-W2F-840

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (height x width x length)	Volume	Gross weight
4008321971555	LR14E -W2F-830	Shipping carton box 8	46 mm x 265 mm x 317 mm	3.86 dm <sup>3</sup>	266.00 g
4008321971579	LR14E -W2F-840	Shipping carton box 8	265 mm x 57 mm x 317 mm	4.79 dm <sup>3</sup>	373.00 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.

For more information please contact

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