OSRAM

PlantaSeed R90B10

Planta Seed Brick | LED modules for industry and outdoor applications

Product family features

- 2 standard color mixes recipes for different applications
- Module efficacy: up to 3.6 µmol/J (@rated conditions)
- PF up to 85 µmol/s (@rated conditions)
- Average lifetime (L90B10): up to 70,000 (up to temperature at Tp = 60 °C)
- Thermal protection by NTC on the LED Module
- Maximum working voltage 550 V for the system
- Geometry according to Zhaga Book 15

Product family benefits

- Customized solutions (color-mix & form factor) possible
- Perfect fit to OPTOTRONIC HC and Industry Drivers
- Compatible to standard outdoor and industry optics, e.g. Ledil Strada series

Areas of application

- Industry (greenhouse, hardware store, supermarket)
- Horticulture application
- Suitable for operation on SELV and non-isolated systems
- Development of prototype luminaires and LED solutions in Horticulture applications
- Greenhouse

Technical data

Electrical data

Type of current	DC
Nominal wattage	23.70 W
Nominal voltage	34.0 V
Nominal current	0.7 A

Photometrical data

Photon Flux Efficacy	2.7 µmol/J
Photon Flux (PF)	79 µmol/s

Light technical data

Starting time	< 0.1 s
Warm-up time (60 %)	< 2.00 s

LED module information

Number of LEDs per module	16

Dimensions & weight
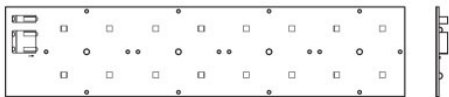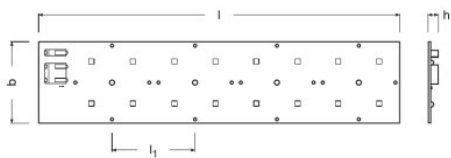
Product weight	52.00 g
Length	223.0 mm
Width	50.0 mm
Height	6.1 mm

Temperatures & operating conditions

Maximum temperature at tc test point	85 °C
Ambient temperature range	-20...+70 °C
Temperature range at storage	-30...85 °C

Performance temp. acc. to IEC 62717	60 °C

Lifespan

| Number of switching cycles	100000
Rated lamp life time	50000 h

Certificates & standards

Standards	CE

Logistical data

Commodity code	85395100000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	07-07-2023
Primary Article Identifier	4062172242394
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

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Light Distribution
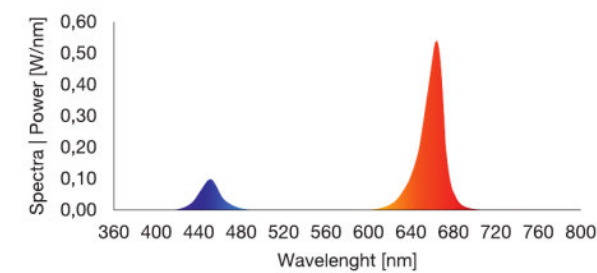
PlantaSeed R90B10 Graph

Product datasheet

Download Data

	File
📄	Certificates PlantaSeed R CE 4359612 180823
📄	Certificates PlantaSeed UKD 4359615 091121

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172242394	PlantaSeed R90B10	Shipping carton box 120	485 mm x 350 mm x 160 mm	27.16 dm³	6946.00 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.