Versatile

EFFICIENT ILLUMINATION

The new LED 2.0 for all radiant ceiling panels from Versatile

Versatile LED 2.0 –
Innovation meets aesthetics

Lighting and radiant ceiling panels share the ideal space on the ceiling – the perfect combination. Why? Both systems transmit energy in the form of radiation. The radiant ceiling panels from Versatile use infrared radiation, while the new Versatile LED 2.0 use light. This clever and space-saving combination optimises the available space on the ceiling as much as possible.

Coordinated planning of light and heat is used as the basis for creating individual project solutions, ensuring the perfect application of both systems.

Everything from a single source – from Versatile.

Innovative plug-and-play principle

Keep it simple – Quick and easy installation of the LED components directly on site.

Individual project solutions

The Zehnder LED 2.0 is available in different lengths and beam angles. The modular concept can be flexibly combined and individually adapted to the customer project.

Everything from a single source

System design incorporating light calculations by Zehnder mean you are always on the safe side and can help save time.
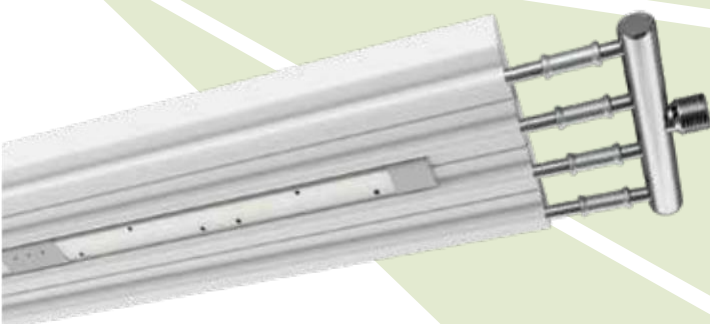
Modern lightweight design

Simple and fast handling from transport to installation – the low weight of the Zehnder LED 2.0 ensures effective and time-saving work on site.

ZEHNDER ZFP

Design example using
LED 2.0 model Z 670

Safe application

Zehnder LED 2.0 can be used in sports halls
without restrictions and offer ball impact
resistance according to DIN 18032.
All components are tested in accordance with the
general safety requirements for luminaires as per
EN 60598-1.

Retrofitting existing systems

Existing installations can also be easily upgraded
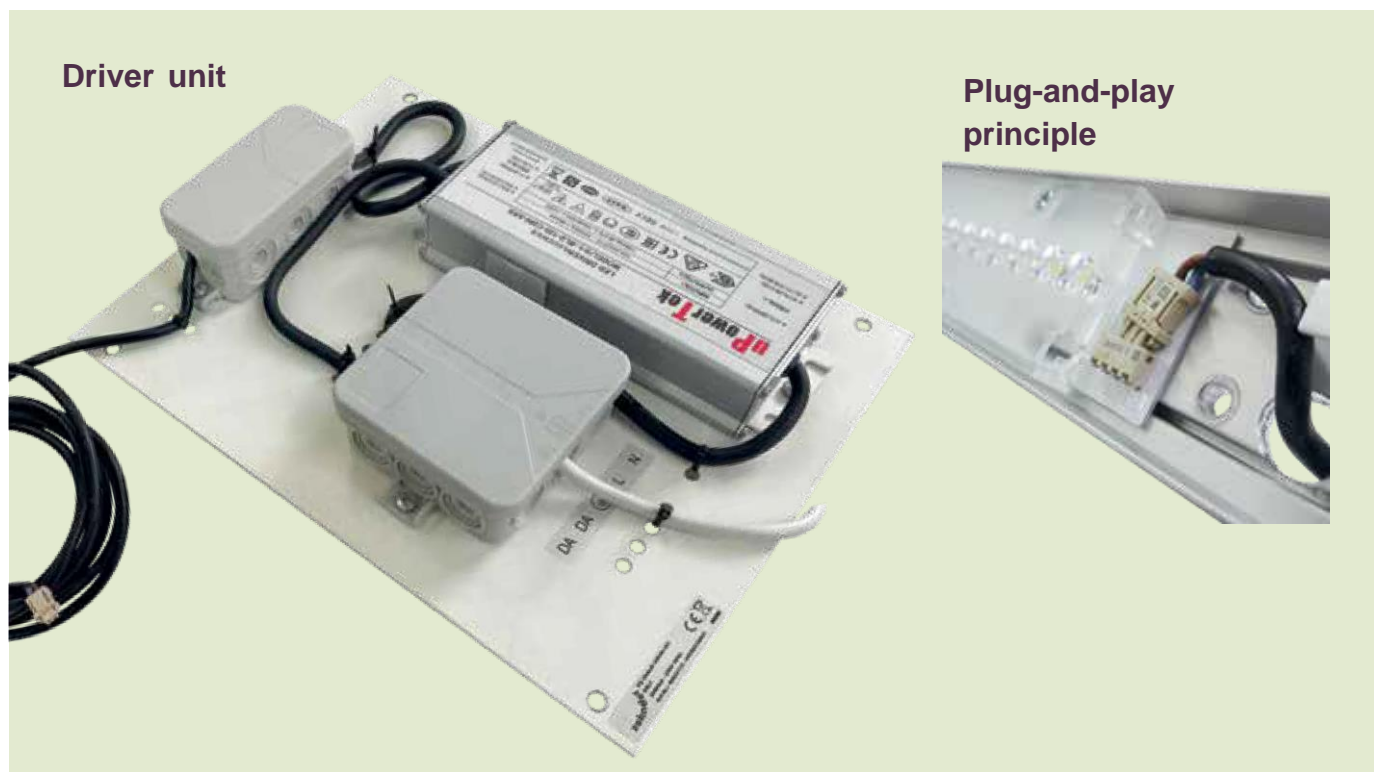using Zehnder LED 2.0.

Complete aesthetic solution

The combination of Zehnder radiant ceiling panels
and the new Zehnder LED 2.0 creates an aesthetic
and space-saving 2-in-1 solution that blends in
perfectly with the architecture of any room.

Efficient operation

A long life cycle and high switching durability
ensure efficient use.

VERSATILE ZFP
Design example
using LED 2.0

Installation made easy

The Versatile LED 2.0 can be seamlessly combined with all Versatile radiant ceiling panels. Thanks to the innovative plug-and-play principle, the LED components can be installed quickly and easily directly on site.
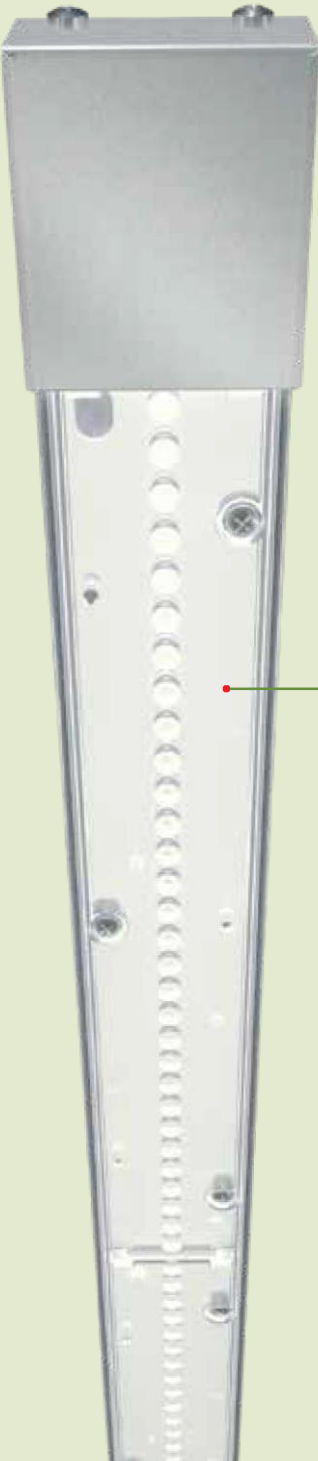
Driver unit

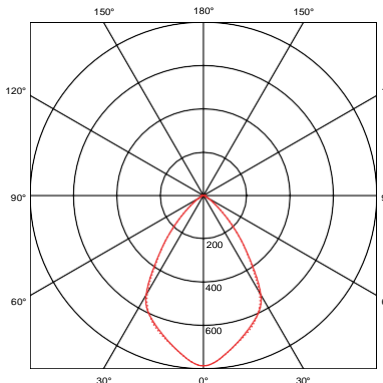**Plug-and-play principle**

Technical specifications			
Model	**Driver unit**	**Terminator**	**Connection cable, 2 m**
Article number	516360	516370	516390
Length [mm]	290		2,000
Width [mm]	225		
Height [mm]	40		
Weight [kg]	1.65		
Connection terminals	5-pole connection: Conductor, non-conductor, ground and DALI bus (+/-) 230 V / 50 Hz		
DALI addresses / LED drivers	1/1		
Number of driver units / fuses	7 PCS @ 16 A–C		
Connected load [W] / 2,500 mA	132 +/- 5%		
Note	Ballast / driver unit for LED surface mounted light Type Z incl. 1 x connection cable, 2,000 mm and screws Connected load 132 W Supply of up to 4 x Z 670 Alternative: 2 x Z 1340; 1 x Z 2010; 1 x Z 2680	Terminator / Terminating resistor To be fitted on site to the slot of the last light on a lighting strip 1 piece per ballast	Connecting cable / connection for LED surface mounted light type Z Length = 2,000 mm

Optimum illumination
for every building project

The Versatile LED 2.0 can be used for any room height. The different beam angles allow for flexibility in the lighting design and ensure the best possible illumination of the room – regardless of the building situation.
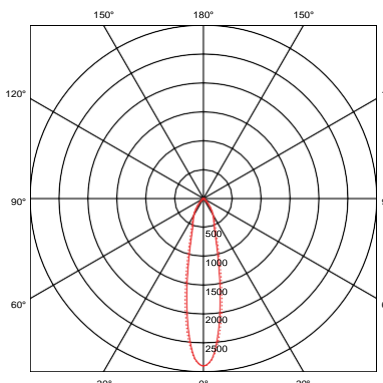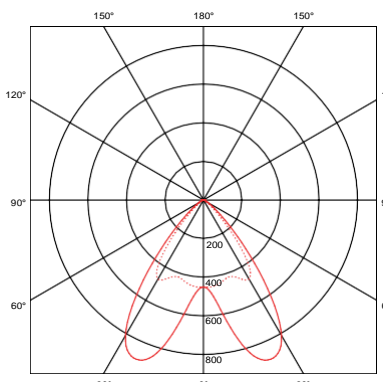
WIDE BEAM
2 X 35°

Room height approx. 5–8 m

NARROW BEAM
2 X 15°

Room height over approx. 8 m

VERY WIDE BEAM
2 X 45°

Room height approx. 2.5–5 m

——— C0 / C180
------- C90 / C270

Versatile – a strong partner at your side

Versatile stands for individual customer care and outstanding service.
The Versatile LED 2.0 service offers reliable advice, planning and lighting calculations for our customers.We work with you to develop the perfect solution foryour project.
Our years of experience – delivering the assurancesyou need.

LED 2.0 Service
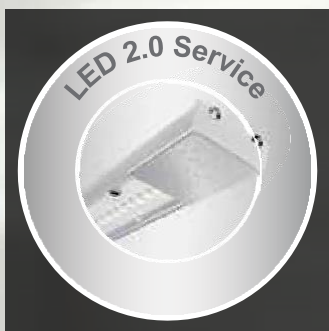
Advice

Versatile will be available right from the planning phase providing valuable expert knowledge. Your personal point of contact will address your concerns directly:

- Technical consulting expertise
- Many years of practical experience
- On hand at all times

Planning

We develop a tailored project solution using appropriate products from the tried and tested Versatile LED 2.0 portfolio:

- 4 different light lengths
- 3 different lens optics
- Plug-and-play principle
- Ball impact resistance according to DIN 18032
- All components tested according to EN 60598-1

Lighting calculation

Benefit from our Versatile LED 2.0 service.
We create your project-specific lighting design using Relux as the basis for the tender:

- Calculation report as a PDF
- Computational and graphical representation of the results
- List of materials
- Tender specifications

Lighting calculation:
Example of a three-pitch sports hall

In the lighting calculation, uniform illumination as well as object use must
be taken into account.
Whether it concerns an evening event or a sports activity –
the dimmable Versatile LED 2.0 can master any requirement.

Project details

- Three-pitch sports hall, 45 x 27 m
- Room height: 7 m
- Height at working level: 0.75 m
- Height at light level: Suspension height
  of the lights 6.60 m
- 60 x Zehnder LED 2.0 model Z 2010

3D luminance, view from behind
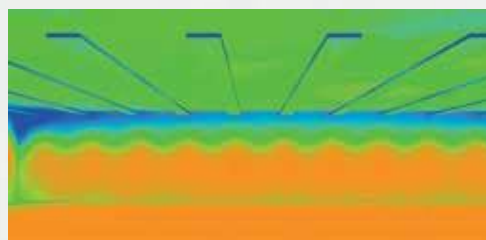
3D false colours, view from front

3D mountains

Light distribution

Floor plan

[m]
-0.0
-2.5
-5.0
-7.5
-10.0
-12.5
-15.0
-17.5
-20.0
-22.5
-25.0

0   5   10   15

Your lighting calculation as a PDF

We create individual lighting calculations, including all of the necessary project data.
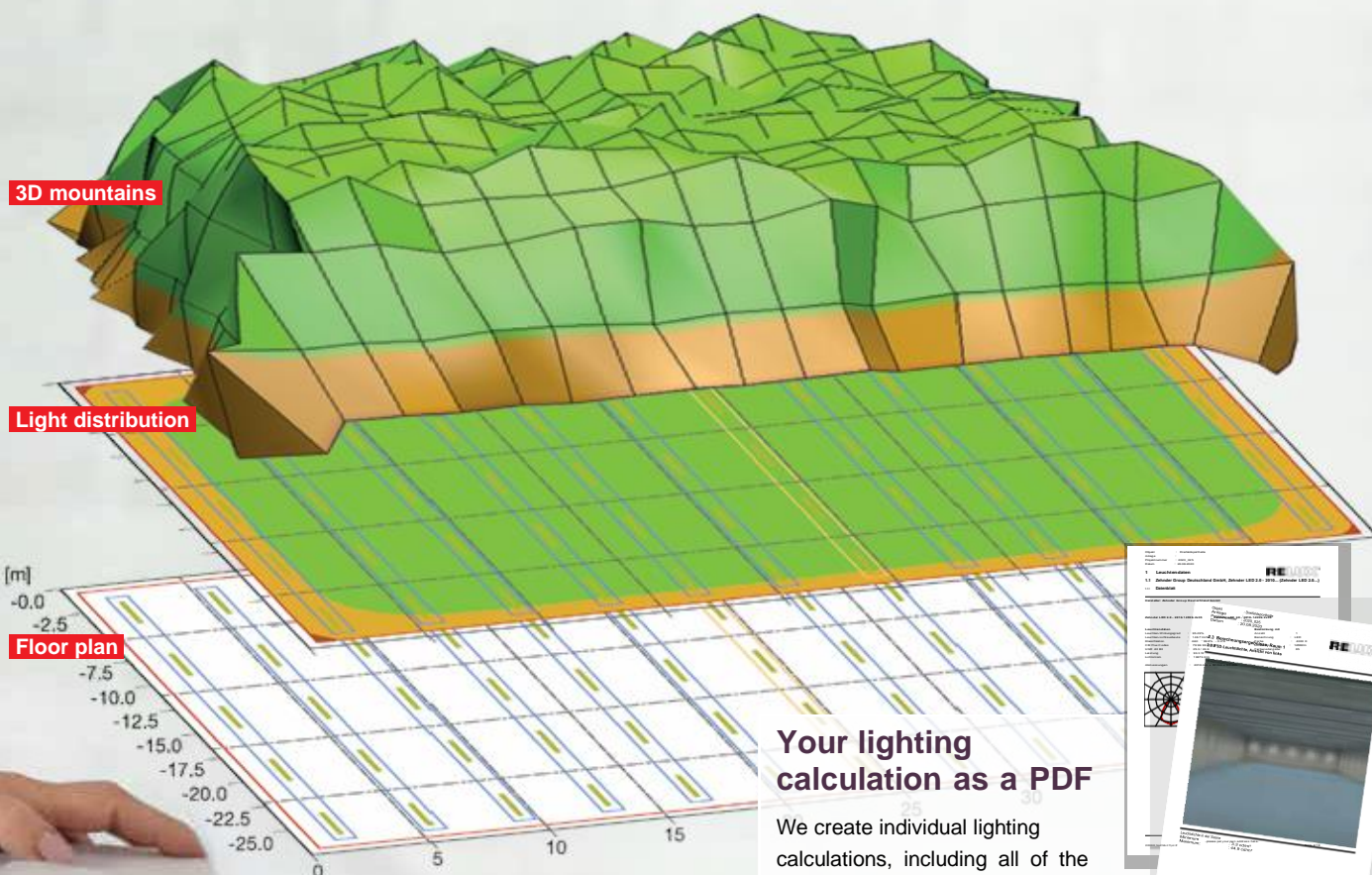
Dimensions and technical specifications

Model Z 2010

Model Z 2680

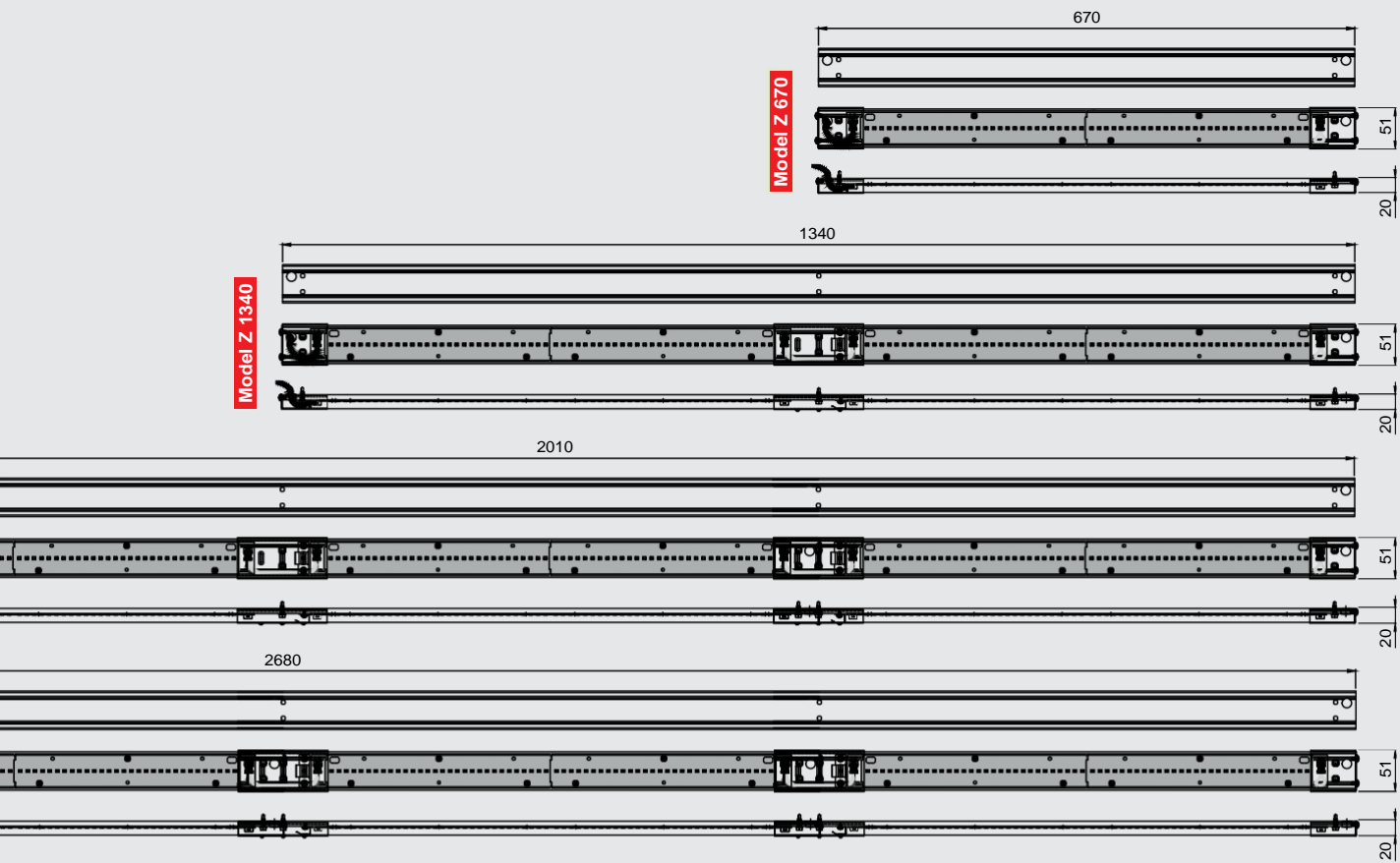| Technical specifications					
Model	**Z 670**			**Z 1340**		
Article number	516200	516210	516220	516230	516240	516250
Length [mm]	670			1,340		
Width [mm]	51			51		
Height [mm]	20			20		
Light distribution	2 x 35° wide beam	2 x 15° narrow beam	2 x 45° very wide beam	2 x 35° wide beam	2 x 15° narrow beam	2 x 45° very wide beam
Weight [kg]	1			1.9		
Surface	Anodised aluminium			Anodised aluminium		
LED luminous flux [lm at 2,500 mA]	4853			9706		
Level of efficiency [%]	95			95		
Luminous flux / W at 2,500 mA [lm/W]	146			146		
Light colour / CRI	4,000 K / > 80			4,000 K / > 80		
Flow temperature*	up to max. 70 °C			up to max. 70 °C		
Max. number of lights per driver unit	4			2		
Protection class	II			II		
Degree of protection	IP 20			IP 20		
Connected load [W] / 2,500 mA	31.5			63		
Note	Ball impact resistance according to DIN 18032			Ball impact resistance according to DIN 18032		

Individual project solutions on request
* Other temperatures are available on request

Model Z 670

670

51

20

Model Z 1340

1340

51

20

2010

51

20

2680

51

20

Technical specifications

Model	Z 2010			Z 2680		
Article number	516260	516270	516280	516290	516300	516310
Length [mm]	2,010			2,680		
Width [mm]	51			51		
Height [mm]	20			20		
Light distribution	2 x 35° wide beam	2 x 15° narrow beam	2 x 45° very wide beam	2 x 35° wide beam	2 x 15° narrow beam	2 x 45° very wide beam
Weight [kg]	2.9			3.8		
Surface	Anodised aluminium			Anodised aluminium		
LED luminous flux [lm at 2,500 mA]	1,4559			1,9412		
Level of efficiency [%]	95			95		
Luminous flux / W at 2,500 mA [lm/W]	146			146		
Light colour / CRI	4,000 K / > 80			4000 K / > 80		
Flow temperature*	up to max. 70 °C			up to max. 70,°C		
Max. number of lights per driver unit	1			1		
Protection class	II			II		
Degree of protection	IP 20			IP 20		
Connected load [W] / 2,500 mA	94.5			126		
Note	Ball impact resistance according to DIN 18032			Ball impact resistance according to DIN 18032		

Individual project solutions on request
* Other temperatures are available on request

Tender specifications

Lights, wide beam

LED surface mounted light Z 670 – 31.5 W (670 mm)
(Article no.: 516200)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 31.5 W (at 2.5 A), 4,000 K, 4,853 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x W x H: 670 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032

LED surface mounted light Z 1340 - 63 W (1,340 mm)
(Article number: 516230)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 63 W (at 2.5 A), 4000 K, 9,706 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x W x H: 1,340 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032

LED surface mounted light set Z 2010 – 94.5 W (2010 mm)
(Article number: 516260)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 94.5 W (at 2.5 A), 4,000 K, 14559 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x W x H: 2,010 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032
Set consists of: 1 x LED surface mounted light Z 670 – 31.5 W
1 x LED surface mounted light Z 1,340 – 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connecting cable / connection 100 mm

LED surface mounted light set Z 2680 – 126 W (2,680 mm)
(Article number: 516290)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 126 W (at 2.5 A), 4,000 K, 19412 lm, CRI > 80
Flow temperature: Up to max. 70°,C
Light distribution: 2 x 35°, wide beam
L x W x H: 2,680 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032
Set consists of: 2 x LED surface mounted lights Z 1340 – 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connecting cable / connection 100 mm

Lights, narrow beam

LED surface mounted light Z 670 – 31.5 W (670 mm)
(Article no.: 516210)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 31.5 W (at 2.5 A), 4,000 K, 4,853 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x W x H: 670 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032

LED surface mounted light Z 1340 – 63 W (1,340 mm)
(Article no.: 516240)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 63 W (at 2.5 A), 4000 K, 9,706 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x W x H: 1,340 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032

LED surface mounted light set Z 2010 – 94.5 W (2010 mm)
(Article number: 516270)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 94.5 W (at 2.5 A), 4,000 K, 14559 lm, CRI > 80
Flow temperature: Up to max. 70° C
Light distribution: 2 x 15°, narrow beam
L x W x H: 2,010 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032
Set consists of: 1 x LED surface mounted light Z 670 – 31.5 W
1 x LED surface mounted light Z 1,340 – 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connecting cable / connection 100 mm

LED surface mounted light set Z 2680 – 126 W (2,680 mm)
(Article number: 516300)
System for on-site installation on radiant ceiling panels
Surface: Anodised aluminium
Output: 126 W (at 2.5 A), 4,000 K, 19412 lm, CRI > 80
Flow temperature: Up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x W x H: 2,680 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Driver unit, third-party (not part of the light)
Ball impact resistance according to DIN 18032
Set consists of: 2 x LED surface mounted lights Z 1340 – 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connecting cable / connection 100 mm

Lights, wide beam

LED surface mounted light Z 670 - 31.5 W (670 mm)

(Article number: 516220)

System for on-site installation on radiant ceiling panels

Surface: Anodised aluminium

Output: 31.5 W (at 2.5 A), 4,000 K, 4853 lm, CRI > 80

Flow temperature: Up to max. 70,°C

Light distribution: 2 x 45°, very wide beam

L x W x H: 670 x 51 x 20 mm

Protection class: 2, Degree of protection: IP 20, DALI dimmable

Driver unit, third-party (not part of the light)

Ball impact resistance according to DIN 18032

LED surface mounted light Z 1,340 - 63 W (1,340 mm)

(Article number: 516250)

System for on-site installation on radiant ceiling panels

Surface: Anodised aluminium

Output: 63 W (at 2.5 A), 4000 K | 9,706 lm | CRI > 80

Flow temperature: Up to max. 70,°C

Light distribution: 2 x 45°, very wide beam

L x W x H: 1,340 x 51 x 20 mm

Protection class: 2, Degree of protection: IP 20, DALI dimmable

Driver unit, third-party (not part of the light)

Ball impact resistance according to DIN 18032

LED surface mounted light set Z 2010 – 94.5 W (2010 mm)

(Article number: 516280)

System for on-site installation on radiant ceiling panels

Surface: Anodised aluminium

Output: 94.5 W (at 2.5 A), 4,000 K, 14559 lm, CRI > 80

Flow temperature: Up to max. 70 °C

Light distribution: 2 x 45°, very wide beam

L x W x H: 2,010 x 51 x 20 mm

Protection class: 2, Degree of protection: IP 20, DALI dimmable

Driver unit, third-party (not part of the light)

Ball impact resistance according to DIN 18032

Set consists of: 1 x LED surface mounted light Z 670 – 31.5 W

           1 x LED surface mounted light Z 1340 – 63 W

           1 x centre cover

           1 x spring clip for centre cover

           1 x connecting cable / connection 100 mm

LED surface mounted light set Z 2,680 – 126 W (2,680 mm)

(Article number: 516310)

System for on-site installation on radiant ceiling panels

Surface: Anodised aluminium

Output: 126 W (at 2.5 A), 4,000 K, 19412 lm, CRI > 80

Flow temperature: Up to max. 70 °C

Light distribution: 2 x 45°, very wide beam

L x W x H: 2,680 x 51 x 20 mm

Protection class: 2, Degree of protection: IP 20, DALI dimmable

Driver unit, third-party (not part of the light)

Ball impact resistance according to DIN 18032

Set consists of: 2 x LED surface mounted lights Z 1340 – 63 W

           1 x centre cover

           1 x spring clip for centre cover

           1 x connecting cable / connection 100 mm

Accessories

Driver

(Article number: 516360)

Ballast / driver unit for LED surface mounted light

Type Z incl.1 x 2,000 mm connection cable and screws

Connection power: 132 W

Supply of up to 4 x Z 670

Alternative: 2 x Z 1340; 1 x Z 2010; 1 x Z 2680

Connection cable, 2 m

(Article number: 516390)

Connecting cable / connection for LED surface mounted light type Z

Length = 2,000 mm

Terminator

(Article number: 516370)

Terminator / terminating resistor to be fitted on site

to the slot of the last light on a lighting strip

1 per ballast

Spare parts

Centre cover

(Article number: 516330)

Centre cover for LED surface mounted light type Z

consisting of: 1 x centre cover

           1 x spring clip for centre cover

End cover

(Article number: 516320)

End cover for LED surface mounted light type Z

Connection cable, 100 mm

(Article number: 516380)

Connecting cable / connection for LED surface mounted light type Z

Length = 100 mm

Centre cover set

(Article number: 516350)

Centre cover set for LED surface mounted light type Z

consisting of: 1 x centre cover

           1 x spring clip for centre cover

           1 x connection cable, 100 mm

Spring clip for centre cover

(Article number: 516340)

Spring clip, centre cover for surface mounted light type Z

Versatile · Beechmount Homepark, Clogherboy, Navan,

Co. Meath, C15 WR60

+353 (046) 902 9444 · info@versatile.ie www.versatile.ie