



■ Decorative radiators ■ Comfortable indoor ventilation ■ Heating and cooling ceilings ■ Industrial air purification

LED 2.0

Efficient illumination

Innovative aesthetics

The perfect location of the lighting and radiant ceiling panels in the roof space allows the seamless integration of both systems.

Both transfer energy in the form of radiation, with radiant ceiling panels emitting infrared radiation as heat, and the LED 2.0 emitting light. A precise design that harmonises both light and heat is crucial for project solutions that combine both systems.

Offers you a comprehensive solution from a single source.

Our solution

- ✓ Innovative Plug & Play principle
- ✓ Tailored project solutions
- ✓ Everything from a single source
- ✓ Modern lightweight design
- ✓ Safe application
- ✓ Easy to retrofit
- ✓ Complete aesthetic solution
- ✓ Efficient operation

Our service

Consultation

- Technical consulting expertise
- Many years of practical experience
- 24/7 support

Planning

- 4 different light lengths
- 3 different lens optics
- Plug & Play principle
- Ball impact resistant in accordance with DIN 18032
- All components tested according to EN 60598-1
- Version IP 40 IK 08 for enhanced safety

Lighting calculation

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

Installation
on request ¹



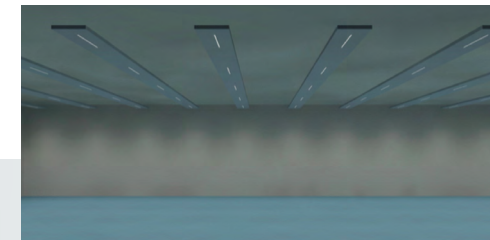
¹⁾Electrical wiring on site

Production facility and
warehouse, Seifhennersdorf

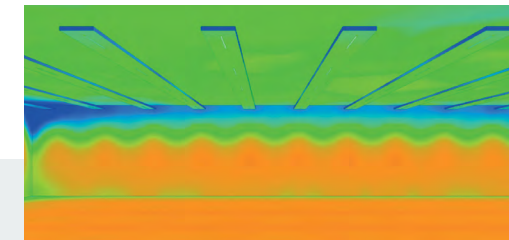
versatile
Heating · Cooling · Ventilation



Example lighting calculation: three-court sports hall



3D luminance, view from behind



3D false colours, front view

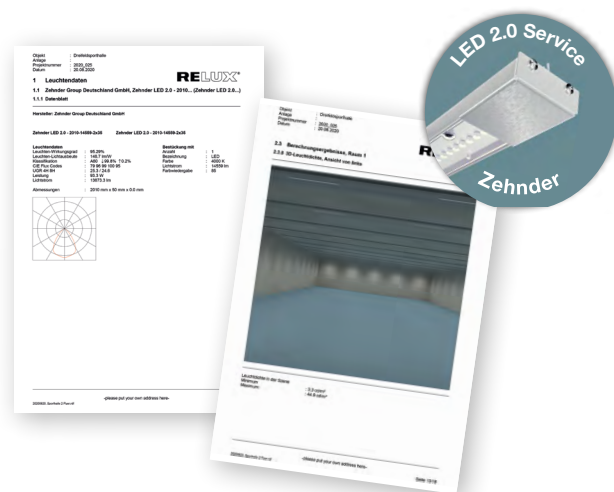
Project details

- Sports hall court, 45 x 27 m
- Room height: 7 m
- Usable level height: 0.2 m
- Height of lighting level: lights suspended at 6.60 m
- 60 x LED 2.0 Model Z 2010

When performing lighting calculations, both uniform illumination and the intended use of the room must be taken into account.

Whether it's an evening event or sporting activities – with the dimmable LED 2.0, you can handle any requirement.

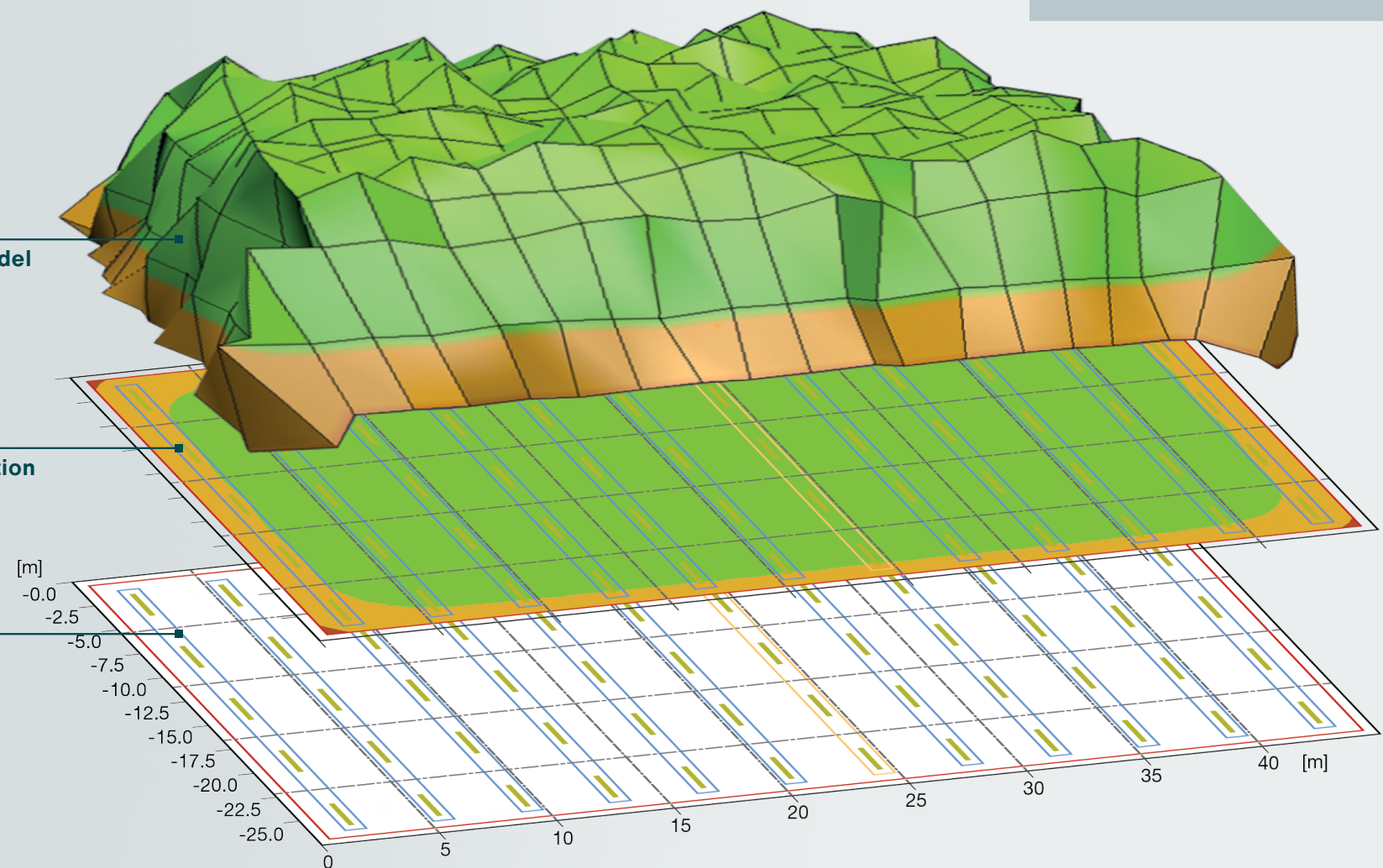
Lighting calculations – customised and reliable



3D terrain model

Light distribution

Floor plan



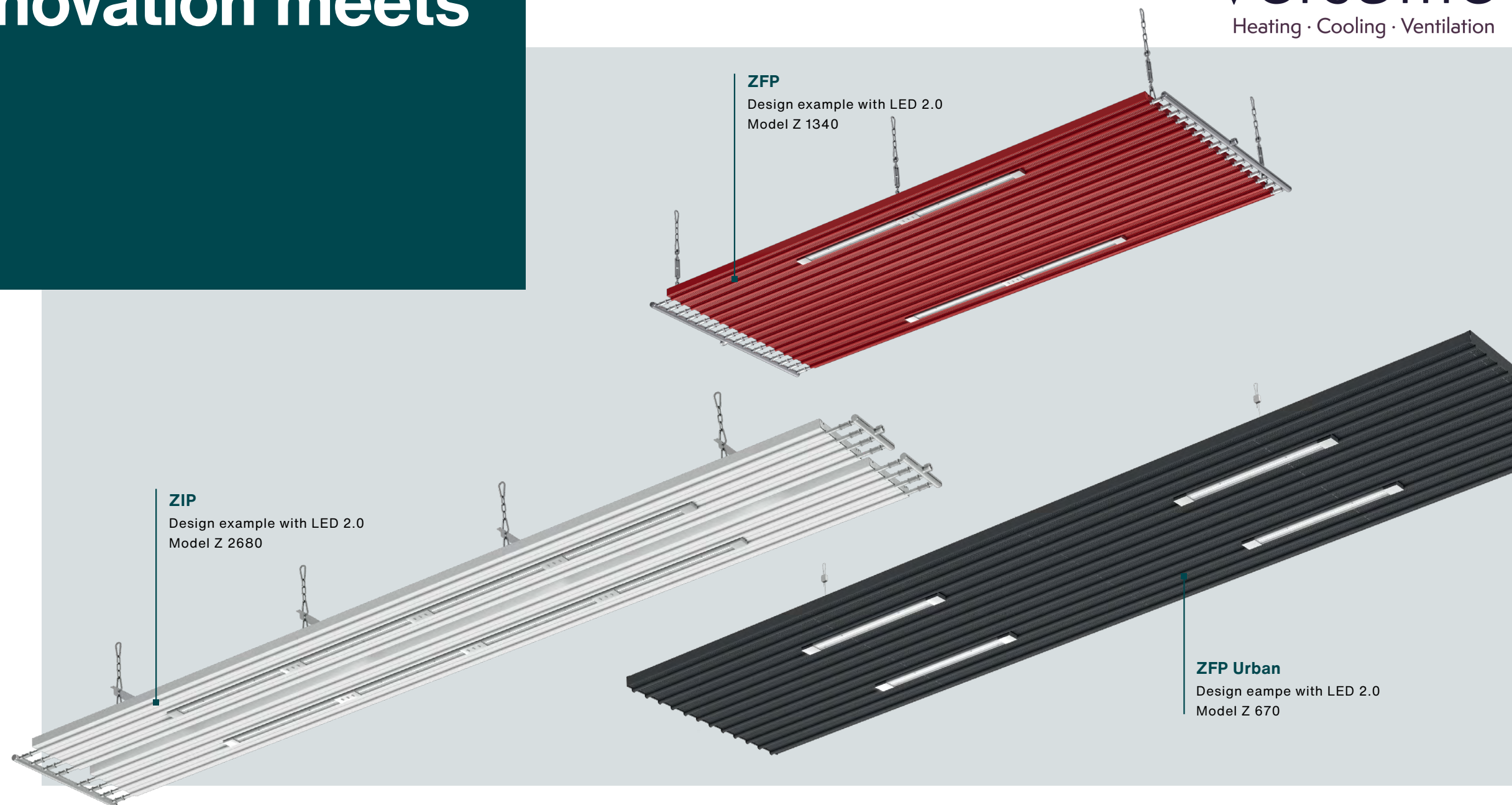
LED 2.0 – Innovation meets aesthetics

LED 2.0 transforms the radiant ceiling panel into a multifunctional solution.

Carefully designed down to the last detail: LED 2.0 perfectly complements radiant ceiling panels and paves the way for efficient and practical project implementation.

This modern lighting concept impresses with fast installation, great flexibility in project planning, and dependable, safe operation – perfect even for challenging environments like sports halls or renovations!

This creates a technically and aesthetically sophisticated solution for a wide variety of applications.



Innovative Plug & Play principle
Keep it simple – Quick and simple installation of the LED components directly on site.



Everything from a single source
With our handling planning and lighting calculations, you can be confident and save time.



Safe application
Unrestricted use for sports halls, ball impact resistant (DIN 18032) & compliant with EN 60598-1.



Complete aesthetic solution
Radiant ceiling panels + LED 2.0: aesthetic, space-saving 2-in-1 solution, perfectly integrated into any room architecture.



Individual project solutions
Available in various lengths and angles, modular and tailored to each client's project.



Modern lightweight design
Easy, fast transport & installation: the low weight of the LED 2.0 saves time and makes work easier.



Retrofitting existing systems
Existing installations can also be easily retrofitted with the LED 2.0.



Efficient operation
A long service life and high switching durability ensure efficient use.

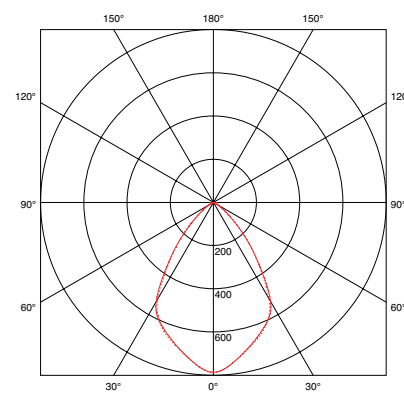
Optimal illumination for every construction project

LED 2.0 can be used for any room height. With various beam angles, they offer flexibility in lighting design and guarantee the best possible room illumination, regardless of the construction scenario.

— C0 / C180
- - - C90 / C270

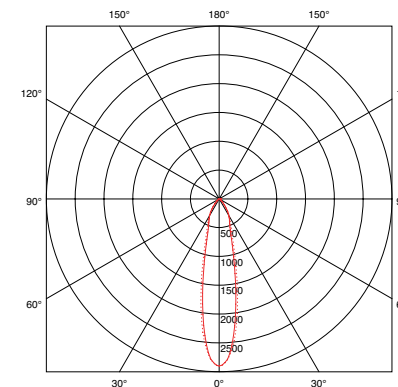


**Wide beam
2 x 35°**



Room height approx. 5–8 m

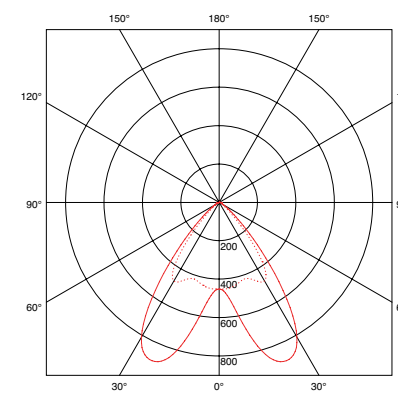
**Narrow beam
2 x 15°**



Room height over approx. 8 m



**Very wide beam
2 x 45°**



Room height approx. 2.5–5 m



LED 2.0 Model Z
670 IP20

Installation made easy

LED 2.0 can be easily combined with all radiant ceiling panels. Using the innovative Plug & Play principle, the LED components can be installed quickly and easily directly on site.

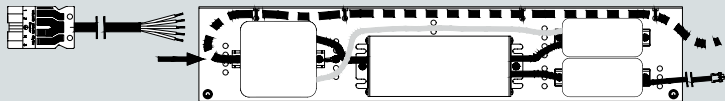


Driver unit IP20
Standard



Driver unit IP20
Slim design

Dimensions: 545 x 107 x 40 mm (L x W x H)
Item number: 517970



Technical specifications			
Model	Driver unit for LED 2.0 IP20 Standard	Terminating resistor	Connection cable
Item number	516360	516370	516390 / 517950
Length x width x height [mm]	290 x 225 x 40	–	2000 / 4000
Weight [kg]	1.65	–	–
Connection terminals	5-pole connection: conductor, non-conductor, earthing and DALI bus (+/-) 230 V / 50 Hz	–	–
DALI addresses / LED drivers	1/1	–	–
Number of driver units / fuses	7 @ 16 A - C	–	–
Connection power [W] / 2500 mA	132 +/- 5%	–	–
Note	incl.1 x 2000 mm connecting cable and screws Supply of up to 4 x Z 670 Alternative: 2 x Z 1340; 1 x Z 2010; 1 x Z 2680	On-site installation at the last fixture's socket in a luminaire chain – 1 per driver unit.	–

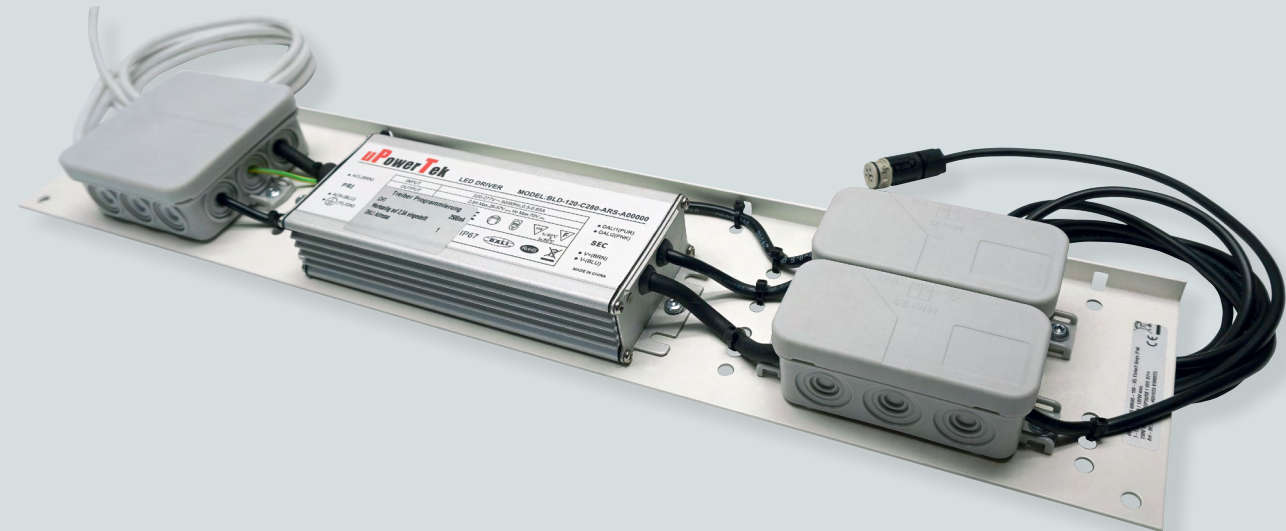
¹ Wieland connector with pastel blue code

Reinforced version IP40 IK08

- ✓ Meets legal requirements (country-specific) for a wide range of public space uses
- ✓ Vandalism protection
- ✓ Robustness + protection in dusty and demanding environments



Driver unit IP40 IK08
Reinforced version



Technical specifications			
Model	Driver unit for LED 2.0 IP40 IK08	Terminating resistor	Connection cable
Item number	518960	518990	518970 / 518980
Length x width x height [mm]	545 x 107 x 40	–	2000 / 4000
Weight [kg]	1.65	–	–
Connecting terminals	5-pole connection: conductor, non-conductor, earthing and DALI bus (+/-) 230 V / 50 Hz	–	–
DALI addresses / LED drivers	1/1	–	–
Number of driver units / fuses	7 @ 16 A - C	–	–
Connection power [W] / 2500 mA	132 +/- 5%	–	–
Note	incl. 1 x connecting cable 2000 mm and screws Supply of up to 4 x Z 670 Alternative: 2 x Z 1340; 1 x Z 2010; 1 x Z 2680	On-site installation at the last fixture's socket in a luminaire chain – 1 per driver unit.	–

² Wieland connectors with pebble grey code

Dimensions and technical dat

LED 2.0 is available in different lengths, beam angles and degrees of protection. Nevertheless, each variant can be combined with all radiant ceiling panels. Here are the technical details, dimensions and item numbers at a glance.

Technical specifications				
Model	Z 670	Z 1340	Z 2010	Z 2680
Length in mm	670	1340	2010	2680
Height in mm	20	20	20	20
Width in mm	51	51	51	51
Weight in kg	1	1.9	2.9	3.8
Surface	Anodised aluminium			
LED luminous flux in [lm at 2500]mA]	4853	9706	14559	19412
Level of efficiency in %	95 (92 for version IP40 IK08)			
Luminous flux / W at 2500 mA [lm/W]	146			
Light colour / CRI	4000 K / > 80			
Flow temperature *	up to max. 70 °C (60 for version IP40 IK08)			
Max. number of luminaires per driver unit	4	2	1	1
Connection power [W] / 2500 mA	31.5	63	94.5	126
Note	Ball impact resistant – tested and certified according to DIN 18032			

*Other temperatures on request.

Order unit / Item overview				
Model	Light distribution	Degree of protection	Impact resistance rating	Item number
Z 670	2 x 15° narrow beam	IP20	-	516210
	2 x 35° wide beam	IP40	IK08	519030
		IP20	-	516200
Z 1340	2 x 45° very wide beam	IP20	-	516220
	2 x 15° narrow beam	IP40	IK08	516240
		IP20	-	519060
Z 2010	2 x 35° wide beam	IP40	IK08	516230
	2 x 45° very wide beam	IP20	-	516250
		IP20	-	516270
Z 2680	2 x 15° narrow beam	IP40	IK08	519090
	2 x 35° wide beam	IP20	-	516260
		IP20	-	516280
Z 2680	2 x 15° narrow beam	IP20	-	516300
	2 x 35° wide beam	IP40	IK08	519120
		IP20	-	516290
Z 2680	2 x 45° very wide beam	IP20	-	516310

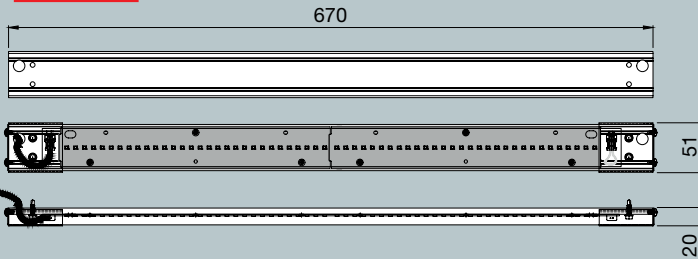


Quantity

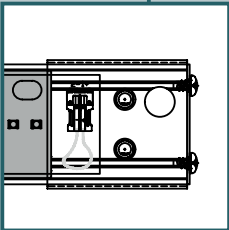
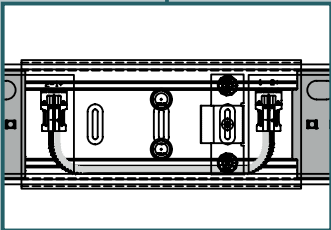
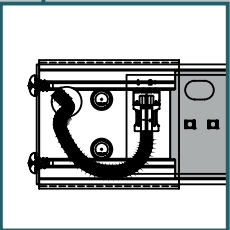
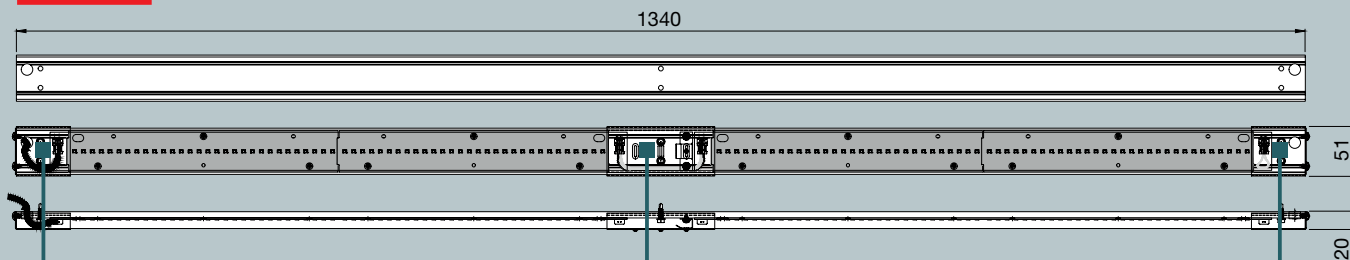
Minimum number per ballast unit:
1 x 1340 mm or 2 x 670 mm

Maximum:
2 x 1340 mm or 4 x 670 mm

Model Z 670



Model Z 1340



Tender specifications

Wide-beam luminaires

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

(Item No.: 516200)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 31.5 W (at 2.5 A), 4000 K, 4853 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x B x H: 670 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted luminaire Z 1340 - 63 W (1340 mm)

(Item No.: 516230)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 63 W (at 2.5 A), 4000 K, 9706 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x B x H: 1340 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted luminaire set Z 2010 - 94.5 W (2010 mm)

(Item No.: 516260)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 94.5 W (at 2.5 A), 4000 K, 14559 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x B x H: 2010 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 1 x LED surface-mounted luminaire Z 670 - 31.5 W
1 x LED surface-mounted luminaire Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

LED surface-mounted luminaire set Z 2680 - 126 W (2680 mm)

(Item No.: 516290)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 126 W (at 2.5 A), 4000 K, 19412 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 35°, wide beam
L x B x H: 2680 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 2 x LED surface-mounted luminaires Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

Narrow-beam luminaires

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

(Item No.: 516210)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 31.5 W (at 2.5 A), 4000 K, 4853 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x B x H: 670 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted luminaire Z 1340 - 63 W (1340 mm)

(Item No.: 516240)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 63 W (at 2.5 A), 4000 K, 9706 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x B x H: 1340 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted luminaire set Z 2010 - 94.5 W (2010 mm)

(Item No.: 516270)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 94.5 W (at 2.5 A), 4000 K, 14559 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x B x H: 2010 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 1 x LED surface-mounted luminaire Z 670 - 31.5 W
1 x LED surface-mounted luminaire Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

LED surface-mounted luminaire set Z 2680 - 126 W (2680 mm)

(Item No.: 516300)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 126 W (at 2.5 A), 4000 K, 19412 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 15°, narrow beam
L x B x H: 2680 x 51 x 20 mm
Protection class: 2
Degree of protection: IP 20, DALI dimmable and DALI-2 compatible
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 2 x LED surface-mounted luminaires Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

Very wide-beam luminaires

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

(Item No.: 516220)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 31.5 W (at 2.5 A), 4000 K, 4853 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 45°, very wide beam
L x B x H: 670 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted light Z 1340 - 63 W (1340 mm)

(Item No.: 516250)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 63 W (at 2.5 A) | 4000 K | 9706 lm | CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 45°, very wide radiating
L x B x H: 1340 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032

LED surface-mounted luminaire set Z 2010 - 94.5 W (2010 mm)

(Item No.: 516280)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 94.5 W (at 2.5 A), 4000 K, 14559 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 45°, very wide beam
L x B x H: 2010 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 1 x LED surface-mounted luminaire Z 670 - 31.5 W
1 x LED surface-mounted luminaire Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

LED surface-mounted luminaire set Z 2680 - 126 W (2680 mm)

(Item No.: 516310)
System for on-site mounting on radiant ceiling panels
Surface: natural anodised aluminium
Power: 126 W (at 2.5 A), 4000 K, 19412 lm, CRI > 80
Flow temperature: up to max. 70 °C
Light distribution: 2 x 45°, very wide beam
L x B x H: 2680 x 51 x 20 mm
Protection class: 2, Degree of protection: IP 20, DALI dimmable
Remote driver unit (not part of the luminaire)
Ball impact resistant – tested and certified according to DIN 18032
Set consists of: 2 x LED surface-mounted luminaires Z 1340 - 63 W
1 x centre cover
1 x spring clip for centre cover
1 x connection cable / coupling 100 mm

Accessories

Driver

(Item No.: 516360)
Ballast / LED driver unit for surface-mounted luminaire Type Z incl.1 x connecting cable 2000 mm and screws
L x B x H: 290 x 225 x 40 mm
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

Narrow driver

(Item No.: 517970)
Ballast / LED driver unit for surface-mounted luminaire Type Z incl. 1 x connecting cable 2000 mm and screws
L x B x H: 545 x 107 x 40 mm
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

(Item No.: 516390)
Connection cable / coupling for LED surface-mounted luminaire Type Z
Length = 2000 mm

Connection cable 4 m

(Item No.: 517950)
Connection cable / coupling for LED surface-mounted luminaire Type Z
Length = 4000 mm

Terminator

(Item No.: 516370)
Install the terminator / terminating resistor on site at the last fixture's socket in a luminaire chain
1 per ballast

Spare parts

Centre cover

(Item No.: 516330)
Centre cover for LED surface-mounted luminaire Type Z
Consisting of: 1 x centre cover
1 x spring clip for centre cover

End cover

(Item No.: 516320)
End cover for LED surface-mounted light Type Z

Connection cable 100 mm (for IP20 & IP40 IK08)

(Item No.: 516380)
Connection cable / coupling for LED surface-mounted luminaire Type Z
Length = 100 mm

Centre cover set

(Item No.: 516350)
Centre cover set for LED surface-mounted luminaire 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 (for IP20 & IP40 IK08)

(Item No.: 516340)
Centre cover spring clip for surface-mounted luminaire Type Z

Contact Us

Beechmount Home Park, Navan, Co. Meath, C15
WR60, Ireland

+353 (0)46 902 9444
Sales@versatile.ie
www.versatile.ie