

**PANOS**  
**infinity/evolution****LED downlight range**

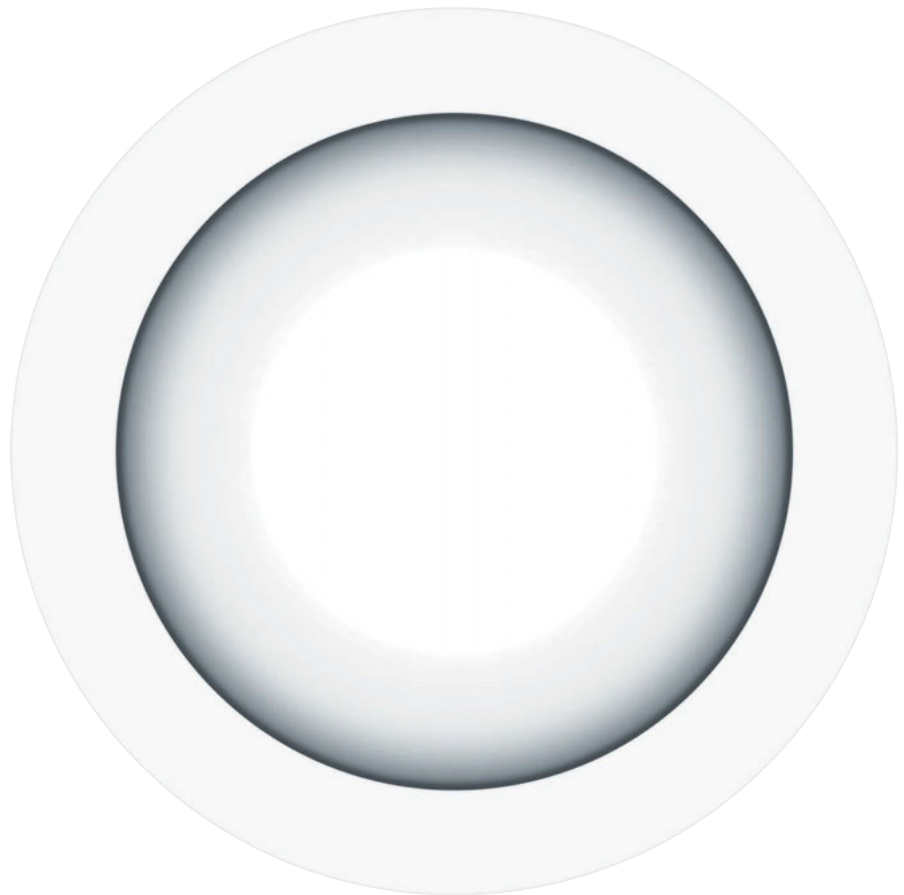
The new age of light  
and efficiency.



[linked](#)

All order numbers in the PDF are linked  
to the Zumtobel online catalogue.

PANOS infinity  
Model: E100 HG with frame | 1:1 scale



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**Zürcher Kantonalbank, Zurich / CH**  
Architects: Se-Arch, Zurich / CH  
Lighting solution: LIGHT FIELDS recessed LED luminaires,  
SLOTLIGHT LED light lines, PANOS infinity LED downlights,  
CRAYON and MICROS, LUXMATE lighting control system



Grüezi



“I don’t think light is just about a quantity of lumen. Sometimes light is about the complete sky falling into a room or space”.



**Chris Redfern**  
Sottsass Associati | Design



Built almost 2000 years ago, the Pantheon remains a mystery up to this day. Light and architecture form a unity. The only source of light is the circular opening at the apex of the cupola. The sun defines time and space through light and colour. It is this balance which Chris Redfern wanted to express in the design of PANOS infinity: light approaching natural daylight. Light with pleasant colour temperatures and the option to adjust them to an individual's preference. A luminaire that disappears in architecture. It is as small and simple as possible, yet at the same time very powerful and efficient. In other words: a luminaire for the future that will still be popular and still work perfectly in the future.



PANTHEON, Rome | around 120 AD

**PANOS infinity** The new age of light and efficiency.



# 1

## PANOS infinity

### Best energy efficiency on the market

» For details see page 12.

- PANOS infinity+ downlights with unique luminaire efficiency of > 100 lm/W
- With up to 85 lm/W, PANOS infinity downlights are twice as efficient as conventional downlights
- PANOS infinity wallwashers achieve luminaire efficiency levels of > 80 lumens per watt
- High luminous flux of luminaire > 1000 lumens > 1800 lumens or > 2400 lumens in the case of Stable White model and > 900 or > 1400 lumens in the case of Tunable White model
- Standard version = DALI-dimmable, hence potential for energy savings of further 70 %
- No extra costs compared to dimmable downlights with compact fluorescent lamps
- Additional savings through lower maintenance costs
- **eco<sup>+</sup>**

# 2

## PANOS infinity

### Best lighting quality on the market

» For details see page 14.

- Stable White:  
stable colour temperature of 3000 Kelvin or 4000 Kelvin
- Tunable White:  
colour temperature adjustable from 2700 Kelvin to 6500 Kelvin
- Excellent colour rendering throughout entire service life
- Absolutely glare-free reflectors for office spaces (UGR < 19)
- Symmetrical wide-angle light distribution
- Uniform, asymmetrical light distribution (wallwasher)

### 3 PANOS infinity

#### Safest technological concept

» For details see page 20.

- Service life: 50,000 hours in the case of L70 or L80 (models E100 and WW150)
- Highly efficient passive cooling system
- Future-proof through modular cartridge system
- Stable colour temperature with constant lighting quality
- Modular structure of optical system for later exchange of modules
- 5-year guarantee

### 4 PANOS infinity

#### Most comprehensive range

» For details see page 22.

- Economically efficient general lighting for all areas of application: replaces existing 18 W/26 W/32 W downlights in single- and twin-lamp versions
- Circular downlights with a diameter of 100 mm (new), 150 mm and 200 mm. Square downlights with a side length of 140 mm and 190 mm, with mounting depths across both ranges varying from 100 mm to 140 mm dependant on the model.
- Wallwashers with a diameter of 200 mm and now also 150 mm
- Circular and square surface-mounted luminaires
- With visible frame or frameless
- Symmetrical, wide-angle light distribution up to 2 x 40°
- Wide choice of high-quality precision reflectors
- Accessories: decorative ring, decorative frame, decorative cylinder, decorative cube, decorative panel, glare control ring, glare control frame, IP protection, concrete casting surround



# PANOS infinity

Best energy efficiency on the market

## The most efficient downlight on the market

» For more information see page 18.

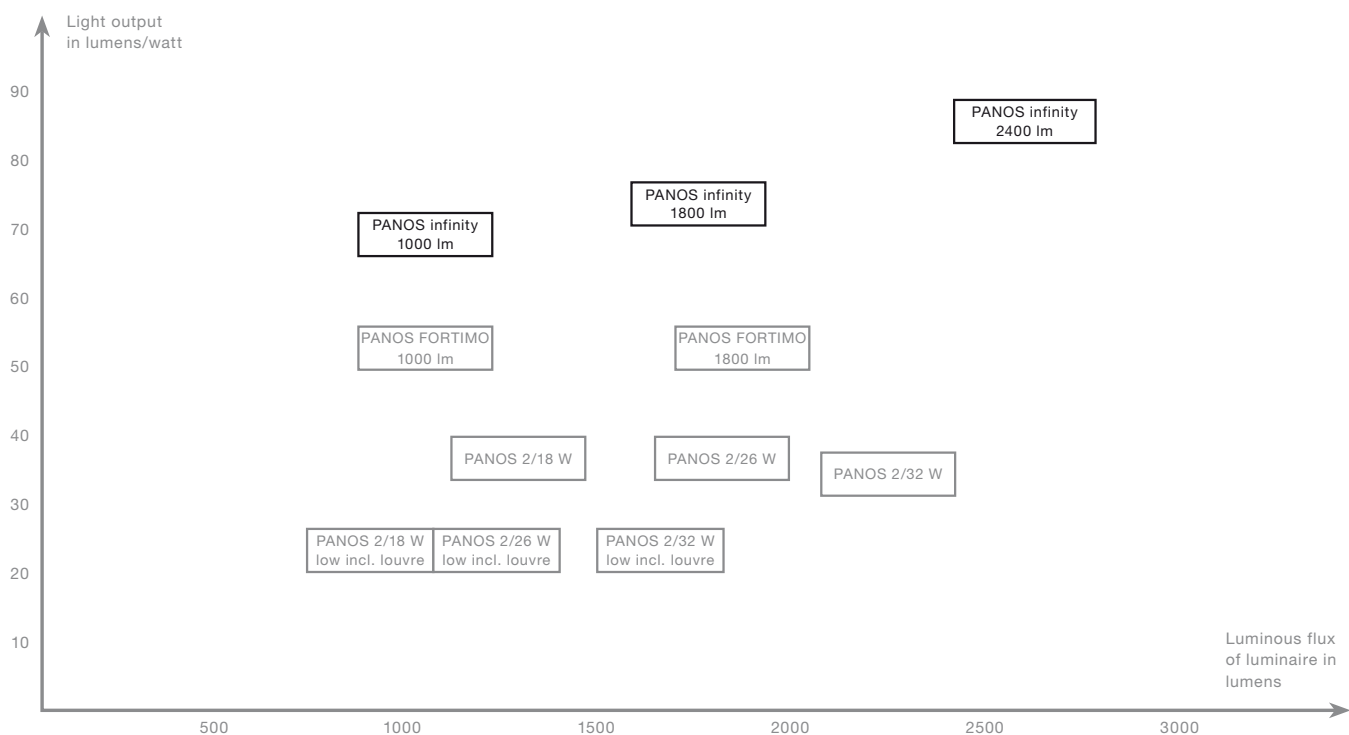
With a system light output of up to 100 lm/W, PANOS infinity is twice as efficient as conventional downlights, on average. At a comparable system output of 2 x 26 W, these provide only 40 lm/W. This excellent efficiency is achieved through high-grade materials and innovative technologies that are combined within the optical system of PANOS infinity. With output levels of up to > 80 lm/W, the wallwasher combines excellent luminaire efficiency with uniform vertical light distribution.

## Unbeatable lumen packages

Only 12 W are sufficient for PANOS infinity to produce a luminous flux up to 960 lumens; for over 1800 and 2400 lumens, the LED downlight only requires 23 W and 32 W, respectively. With this high system light output, PANOS infinity downlights are an alternative to all 18 W/26 W/32 W compact fluorescent lamps in single- and twin-lamp versions.

## Comparison of downlights

Last update: 2011





PANOS infinity  
Model: E100 LG | smooth reflector | Stable White: 4000 K

# PANOS infinity/evolution

Best lighting quality on the market

## PANOS infinity

The warm and pleasant light of PANOS infinity with stable colour temperature sets new standards. In order to reach the colour temperature required, red LEDs are mixed with highly efficient white LEDs. In this way, the colour temperature of 3000 K or 4000 K is set while the LEDs are fitted on the board and the LED module is configured.

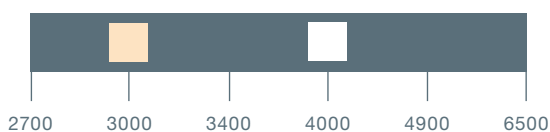
## Excellent colour rendering

With Ra levels exceeding 90, PANOS infinity ranks first among LED downlights. The excellent colour rendering qualities are based on red/white technology. The intelligent interplay of highly efficient white LEDs and red LEDs ensures that virtually the whole light spectrum is rendered – including the crucial long-wave red range (R9), which is covered poorly by many less sophisticated LED technologies.

## PANOS evolution

PANOS infinity, which embodies superior lighting quality, innovative technologies and wide product diversity (incl. frameless models), has been supplemented by the PANOS evolution range. PANOS evolution includes numerous product features of PANOS infinity. Efficient high-performance LED modules with a colour rendering index of  $Ra > 80$  are combined with the widely known benefits of the PANOS infinity range. Tried-and-tested technologies such as efficient thermal management combined with the LED mixing chamber and a large variety of reflectors ensure excellent lighting quality. The new range is available in a round (E100/150/200) and a square (Q140/190) version. A choice of three luminaire luminous flux packages with 1000 lm, 1800 lm or 2400 lm is available, either with warm (3000 K) or intermediate (4000 K) colour temperature. In addition, the range cannot fail to impress on account of its clear stylistic idiom and easy installation features.

PANOS infinity/evolution Stable White | 3000 K and 4000 K



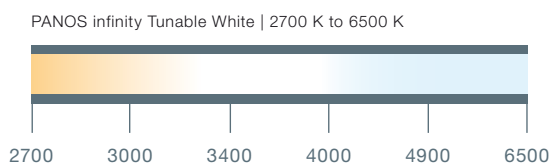
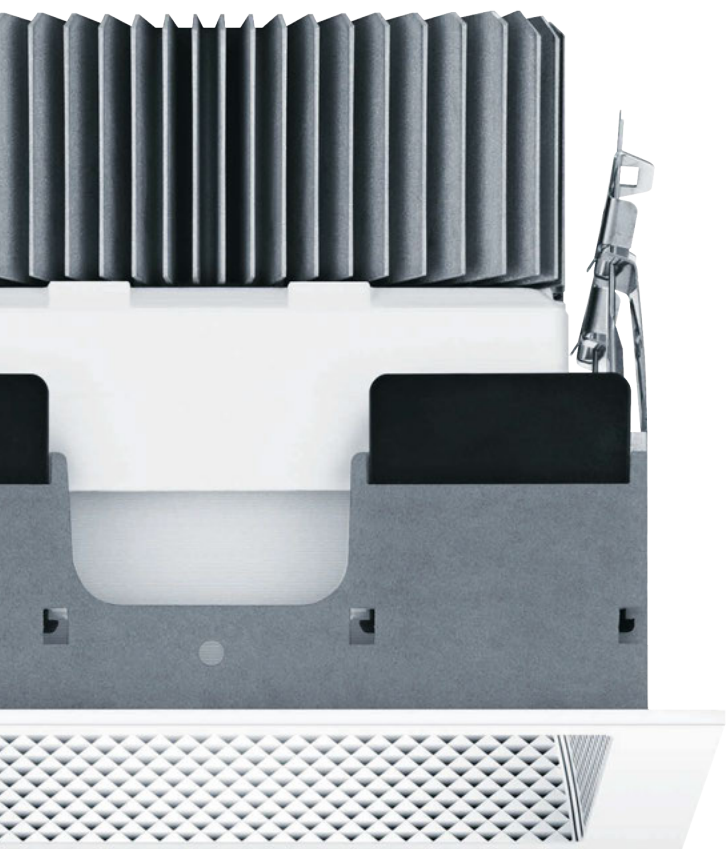
### PANOS infinity Tunable White

A white-light range of 2700 K to 6500 K offers the user a wealth of options to adjust the colour temperature to the respective application, architecture or object. PANOS infinity Tunable White is able to follow the course of daylight or highlight selected surfaces – with an excellent colour rendering index of Ra 90. In addition to visual and emotional influences, the natural course of daylight can be simulated by dynamic colour temperature changes, supporting the human circadian rhythm.

**TUNABLE WHITE BY ZUMTOBEL** [zumtobel.com/tunablewhite](http://zumtobel.com/tunablewhite)

### Outstanding feature: dynamic colour temperatures

Apart from a high variability of colours, unique Pi-LED technology provides for a colour rendering index of Ra > 85 without distorting the colours. This makes Pi-LED technology by far superior to other technologies changing colour temperature. Since the introduction of device type 8 luminaires in 2010, colour temperature can be controlled via LITECOM, the EMOTION touch panel or the CIRCLE tune control point.

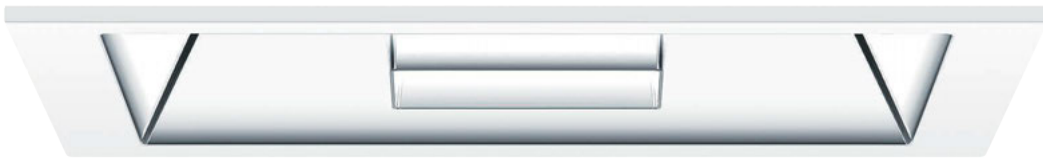


## PANOS infinity

Best lighting quality on the market



PANOS infinity | model: LF 200 with glare control ring



PANOS infinity Q | model: Q190 LG with anti-glare frame

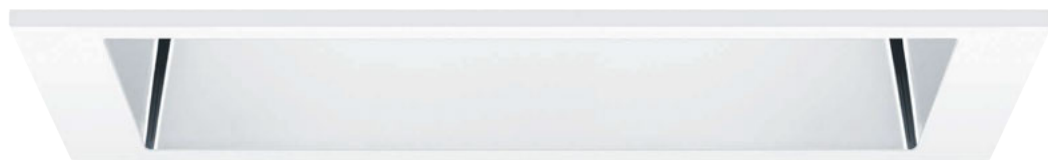
### Glare-free, highly efficient lighting at the workplace

For office and communication areas, EN 12464 stipulates luminaires offering good glare control with a glare control factor of  $UGR < 19$ . All PANOS INFINITY downlights meet this requirement: both round and square luminaires, those with a recessed depth of 100 mm and 125 mm as well as those with 140 mm. In the 'High' version, this is achieved through the high-quality HF or HG reflector. With the 'Low' version, glare control at a level of  $UGR < 19$  is ensured by an inner anti-glare ring. Since this ring, which is available as an accessory, is attached to the inside of the reflector, it can also be used for the frameless version – a novelty on the market. Equally unique is the combination of maximum glare control and efficiency: for Low versions with glare control ring ( $LOR > 70\%$ ) and for High versions with  $UGR < 19$  without additional accessories.





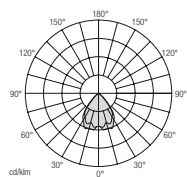
PANOS infinity | model: HG 200 without glare control ring



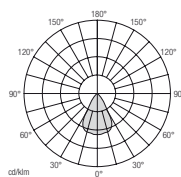
PANOS infinity Q | model: Q190 HG without anti-glare frame

### Symmetrical wide-angle light distribution

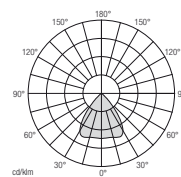
The symmetrical, wide-angle light distribution of PANOS infinity downlights is suitable for all typical downlight applications.



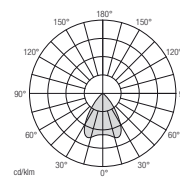
PANOS HF 200 2/26 W



PANOS Fortimo 1800 lm

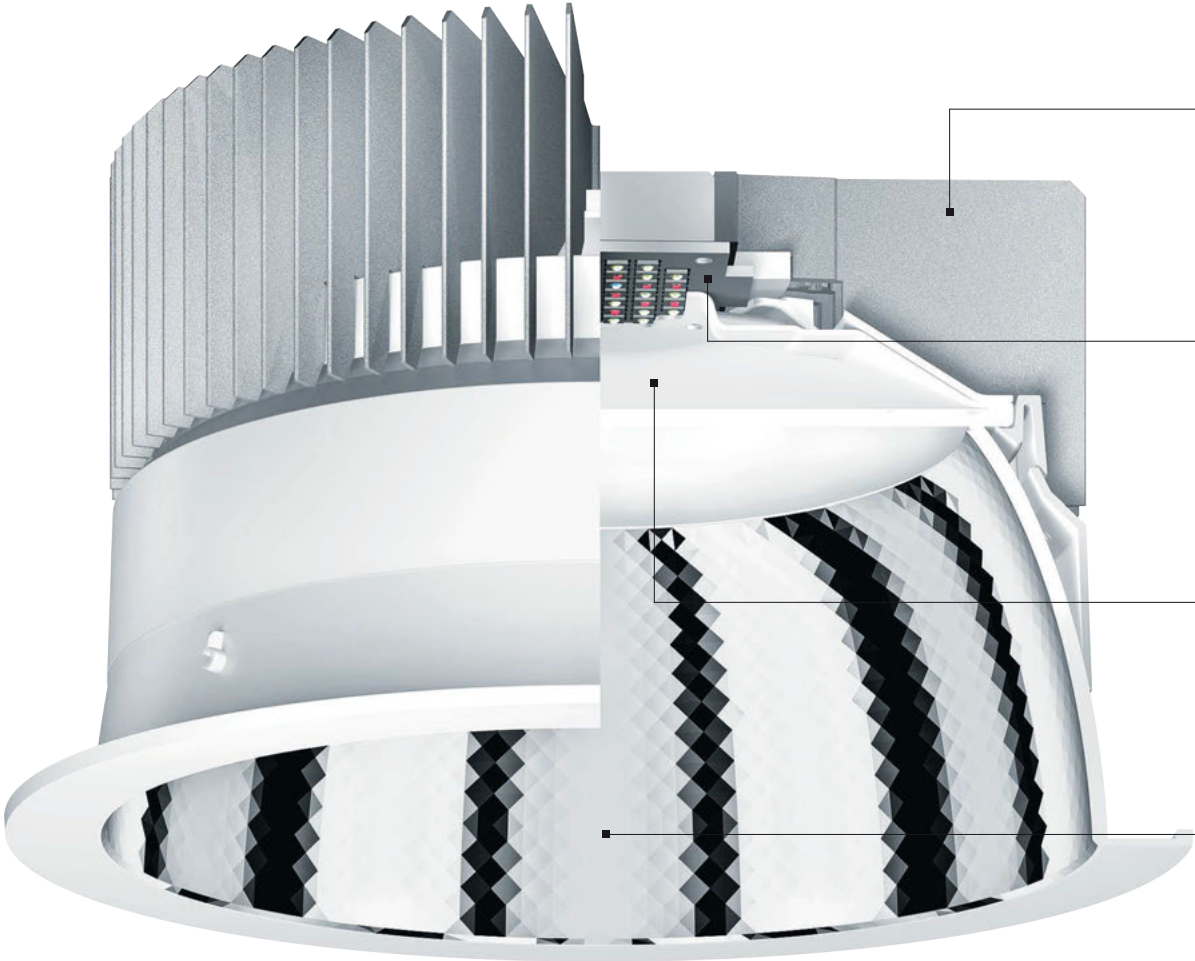


PANOS infinity 2400 lm



PANOS infinity Q 2400 lm

**PANOS infinity**  
Infinity Optical System



PANOS infinity | model: HF 200 with frame

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**1**

**Highly efficient passive cooling system** made of extruded aluminium. At a compact diameter, the slender cooling ribs of the system (patent pending) use an extraordinarily large surface to sustainably cool the LED.

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**2**

**“BEST-IN-CLASS” technologies** In order to meet the big challenge of providing colour temperature stability, Zumtobel makes use of superior board technologies, such as red/white technology for PANOS infinity Stable White or Pi-LED for PANOS infinity Tunable White.

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**3**

**Highly efficient lighting chamber** Highly reflective surfaces in the mixing chamber are perfectly supplemented by a diffuser film featuring an extraordinary degree of emission. This unique concept provides for mixing chamber efficiency levels close to 100 %.

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**4**

**High-quality reflector technology** By providing precision formed reflectors made of high-quality polycarbonate, Zumtobel ensures optimum light distribution. Depending on the model, these are refined using various technologies. One example is the sputtering of reflectors in specular silver finish. The razor-thin aluminium surface provides for extremely high efficiency levels.

#### **Guarantor of lighting quality and efficiency**

The comprehensive know-how in the sphere of lighting applications and luminaire development put Zumtobel in a position to be able to develop an optical system unique in the market. The PANOS infinity Optical System combines high-quality materials and innovative technologies in a downlight featuring extraordinary lighting quality and efficiency.

# PANOS infinity

## Safest technological concept



### Highly efficient passive cooling system

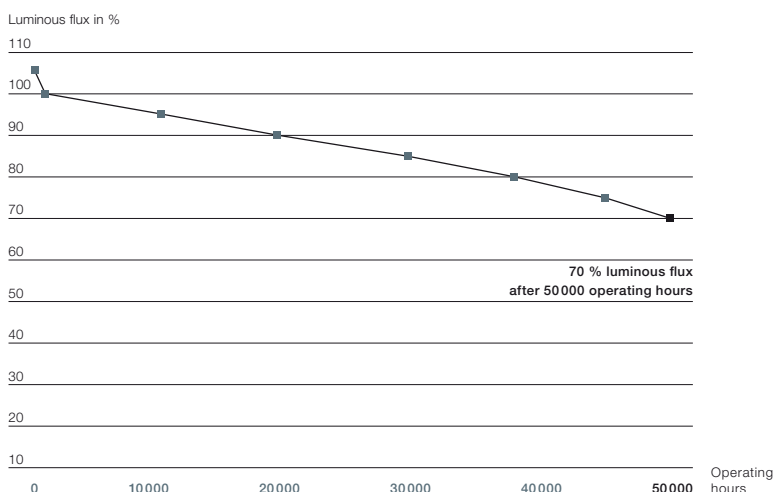
Until recently, active cooling systems were required to reliably cool high LED outputs in extremely confined spaces. PANOS infinity is the first to use a passive cooling system (patent pending) that does not require any additional energy. Material, surface and connection to LEDs are the decisive criteria in this respect. For the cooling ribs of PANOS infinity Zumtobel uses novel aluminium extrusions. In this way it is possible to create an extraordinarily large cooling surface with compact diameters. The LED board and cooling attachment are closely connected to each other, accordingly a long service life is made possible through permanently perfect cooling.



PANOS infinity | infrared heat image model 200

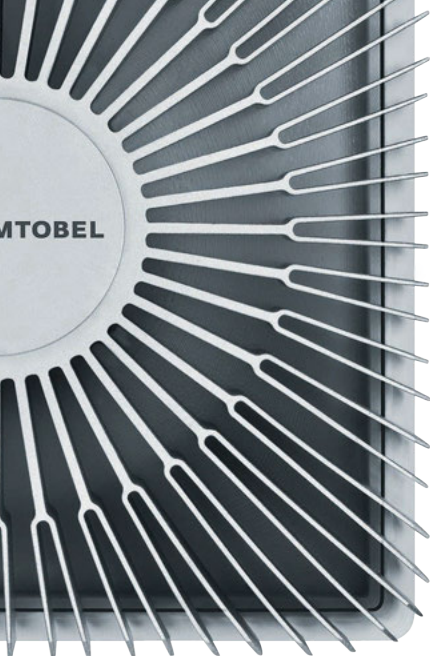
### 50 000 hours at 70 percent luminous flux

The long service life of the entire PANOS infinity LED downlight range is the result of intelligent customising at all levels. Apart from innovative technologies, high-quality materials and careful processing provide a basis for Zumtobel quality with 5-year guarantee.



**Top quality – with a five-year guarantee.**  
As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products subject to registration within 90 days from the invoice date and in accordance with the terms of guarantee at [zumtobel.com/guarantee](http://zumtobel.com/guarantee).



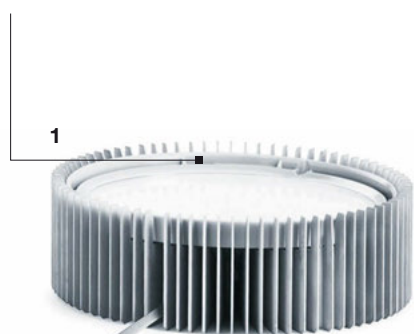


## FUTURE-PROOF

A modular cartridge system ensures the future of PANOS infinity. Without much effort, the LED module can be replaced by a new one. The LED mixing chamber and the cooling system were deliberately combined into a unit, in order to guarantee a thermally ideal connection of the LEDs to the cooling attachment even after replacement, thus maintaining the service life. Mounting ring, control gear and reflector optic remain in place.

**1 | Replaceable LED module** Each new LED module is also fitted with new LED lighting management gear for constant lighting quality. It is connected to the control gear by way of a plug.

Easy installation of reflector in LED module via twist-and-lock mechanism



Connection of lamp management and LED module using an RJ45 plug

Easy installation of reflector via snap-in mechanism



Connection of lamp management and LED module using an RJ45 plug

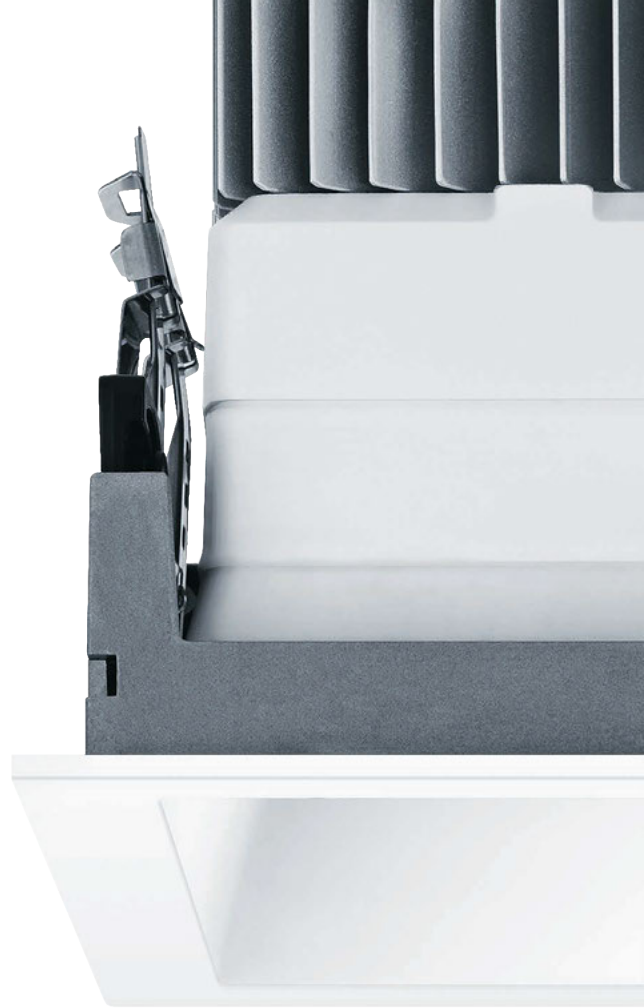
2



**2 | Electronic ballast** The electronic ballast is DALI-dimmable as standard and supplies SELV current for the LED module.

## PANOS infinity

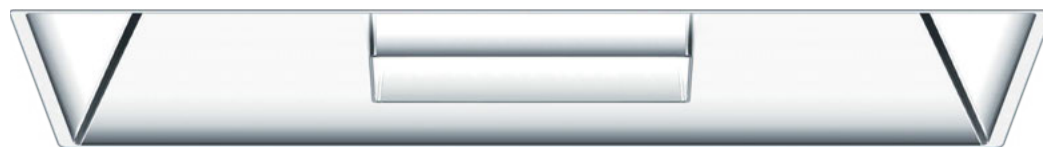
Most comprehensive range



PANOS infinity Q | model: Q190 HL with frame | 1:1 scale

### Most comprehensive range

With lumen packages of > 1000 lm, > 1800 lm and > 2400 lm for Stable White and > 1600 lm for Tunable White, PANOS infinity is an economically efficient alternative for all application areas where downlights fitted with compact fluorescent lamps are used. The wide model range with various reflector surface finishes, frame options, diameters and mounting depths offers an ideal solution for any situation. The familiar mounting functions of the PANOS range, which have proven their worth in many ways, were continued for PANOS infinity and optimised in a few respects. Thus, for instance, slip-proof mounting springs improve reliable fastening to the ceiling.



PANOS infinity Q | model: Q190 LG frameless with anti-glare frame



**Loewe Galerie Haupt, Wildau / DE**  
Lighting solution: DISCUS LED spotlights,  
PANOS infinity LED downlights





LOEWE

Es kann nicht jeder  
der Norm entsprechen

Manchmal muss man selbst  
Normen setzen.

# PANOS infinity

## Product overview

### PANOS infinity

#### Diameter



ø 100 mm



ø 150 mm



ø 200 mm

#### Mounting depths/ surface-mounting heights



from 100 mm  
to 130 mm



Low: 100 mm



High: 140 mm

#### Colour temperatures and luminous flux

Stable White:  
(model E100 only)  
3000 K  
4000 K  
  
960 lm

Stable White:  
3000 K  
4000 K  
  
1000 lm  
1800 lm  
2400 lm

Tunable White:  
2700 to  
6500 K  
  
1600 lm

#### Reflector surface finishes



Facetted\*



Smooth



Matt



Painted

#### Mounting frames



With frame



Frameless

#### Attachment elements



Transparent IP54 cover



Anti-glare ring\*



Decorative ring\*



Decorative cylinder\*



Decorative panel\*

#### Accessories



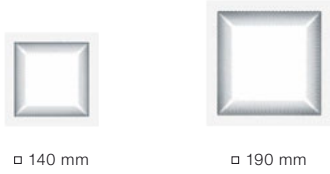
Concrete casting surround

\* Only available for models E150 and E200.

PANOS infinity Q

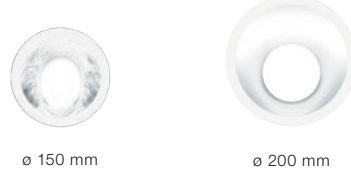
PANOS infinity WW

PANOS infinity A E200



□ 140 mm

□ 190 mm



ø 150 mm

ø 200 mm



ø 235 mm



Low: 100 mm

High: 140 mm



130 mm

142 mm



206 mm

Stable White:  
3000 K  
4000 K  
  
1000 lm  
1800 lm  
2400 lm

Tunable White:  
2700 to  
6500 K  
  
1600 lm

Stable White:  
3000 K  
4000 K  
  
800 lm

Tunable White:  
(model E200 only)  
2700 to  
6500 K  
  
1600 lm

Stable White:  
3000 K  
4000 K  
  
1800 lm  
2400 lm

Tunable White:  
2700 to  
6500 K  
  
1600 lm



Facetted

Smooth

Matt

Painted



Smooth



Facetted

Smooth

Matt

Painted



With frame

Frameless



With frame

Frameless



High: 140 mm with frame



Transparent IP54 cover

Anti-glare ring

Decorative ring

Decorative cylinder

Decorative panel



Transparent IP54 cover



Anti-glare ring

Decorative cylinder

Decorative panel



Concrete casting surround



Concrete casting surround

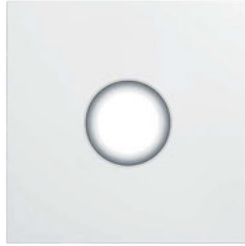
PANOS infinity A Q227

PANOS infinity A E150

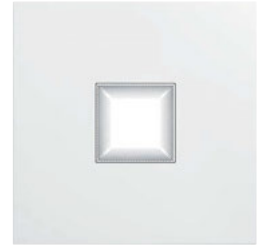
PANOS infinity A Q140



□ 227 mm



□ 400 mm



□ 400 mm



206 mm



122 mm

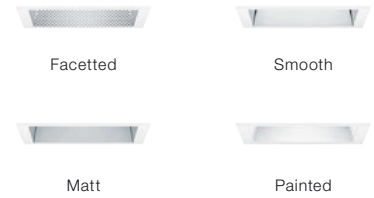


122 mm

Stable White: 3000 K 4000 K	Tunable White: 2700 to 6500 K
1800 lm 2400 lm	1600 lm

Stable White: 3000 K 4000 K	Tunable White: 2700 to 6500 K
1000 lm 1800 lm	1600 lm

Stable White: 3000 K 4000 K	Tunable White: 2700 to 6500 K
1000 lm 1800 lm	1600 lm



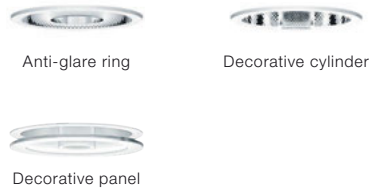
High: 190 mm with frame



Low: 100 mm frameless



Low: 100 mm frameless



## ADVANTAGES

### PANOS infinity

- Recessed diameter same as existing PANOS models (D100, D150, D200)
- Replacing PANOS with conventional lamps by PANOS infinity is possible

### PANOS infinity Q

- Mounting dimensions same as for existing PANOS Q models (Q190)
- Conventional PANOS Q190 can be replaced with PANOS infinity Q190
- Additional design available with side length of 140 mm (Q140)

### PANOS infinity wallwasher

- Recessed diameter same as existing PANOS WW models (D150, D200)
- Conventional PANOS wallwashers can be replaced with PANOS infinity wallwashers

### PANOS infinity surface-mounted

- Round surface-mounted cylinder with a diameter of 235 mm (D235) for E200 High standard luminaires with frame
- Square surface-mounted cylinder with a side length of 227 mm (Q227) for Q190 High standard luminaires with frame
- Flat, square surface-mounted housing with a side length of 400 mm (Q400) for E150 'Low' or Q140 'Low' standard luminaires, frameless

### PANOS infinity and PANOS infinity Q

- 'Low' models for shallow mounting depths in suspended ceiling systems
- Glare control in compliance with EN 12464-1 in all 'High' models (without accessories)
- Anti-glare ring for 'Low' models allows glare control levels of UGR < 19

### PANOS infinity wallwasher

- Asymmetrical reflector providing excellent efficiency and lighting technology, mounting depths: 125 mm and 142 mm

### PANOS infinity surface-mounted

- Round and square surface-mounted cylinders, only 206 mm high
- Flat housing (122 mm) for improved integration into overall architecture

- **Stable White** for stable colour temperatures of 3000 K and 4000 K
- **Tunable White** for dynamic colour temperatures of 2700 K to 6500 K:
  - adjusting colour temperatures to natural course of daylight
  - adjusting colour temperatures to match a variety of surfaces/finishes
  - using the emotional effects of light

- Facetted and highly specular reflectors for sophisticated aesthetic and photometric requirements
- White and matt silver reflectors for a uniform, architecturally sophisticated ceiling look

### PANOS infinity 100

- Low reflectors with UGR < 19
- High reflectors with 45° cut-off angle for perfect darklight effect

### PANOS WALLWASHER 150

- High specular reflector with additional MPO lens for superior lighting quality

- Frames of only 4 mm remain in the background
- Frameless version for utmost architectural requirements

- IP44 as standard, IP54 in closed ceilings with accessories:  
This makes PANOS infinity also suitable for applications requiring a higher protection rating
- Anti-glare ring or frame for UGR < 19 with 'Low' versions
- Decorative accessories enhance interior design and create decorative accents

- Compact casting surround for concrete ceilings







**Museo del Novecento, Milan / IT**

Architects: Italo Rota, Fabio Fornasari, Milan / IT

Lighting solution: PANOS infinity LED downlights, LED spots / special solution, HEDERA LED luminaires, CIELOS modular lighting system, LINARIA light lines, SCUBA moisture-proof luminaires, PERLUCE louvre luminaires, LUXMATE LITENET lighting control system, ARTSIGN and COMSIGN escape sign luminaires





PANOS infinity+  
Model: LG 200 with frame  
2400 lm | 25 W | 1:1 scale



### Unique luminaire efficiency

With its outstanding luminaire efficiency of more than 100 lm/W, the new PANOS infinity+ luminaire takes the lead among all downlights at present available on the market. The most efficient LED downlight range available on the market is at the ready with 8 models for installation in the ceiling, all with a diameter of 200 mm. When it comes to luminous flux, versions with more than 2400 lumens are available, either with 3000 K or with 4000 K. Functional versatility is ensured thanks to two reflectors: smooth and faceted optics are available for recessed depths of 100 mm and 140 mm.

### The best of the best

The design of PANOS infinity+ is fully matched to the range's overall concept, including an identical lighting chamber. State-of-the-art technology inside provides additional benefits. Integrated Stable White technology makes the luminaire extremely efficient and ensures a particularly high level of lighting quality with a colour rendering index of  $R_a > 90$ . The future-proof technological concept is further enhanced by the downlight's modular structure and unique thermal management.

### PANOS infinity+

**Diameter**  
ø 200 mm

**Recessed depth**  
Low version: 100 mm  
High version: 140 mm

**Colour temperatures**  
3000 K | 4000 K

**Lumen package**  
> 2400 lm

**Reflector surfaces**  
Faceted | smooth

**Mounting frame**  
Model with frame only

**Attachments and accessories**  
see Product range overview  
Page 26

PANOS infinity+  
Model: HG 200 with frame  
> 2400 lm



> 100 lm/W

## PANOS infinity+

Extended portfolio for even higher efficiency

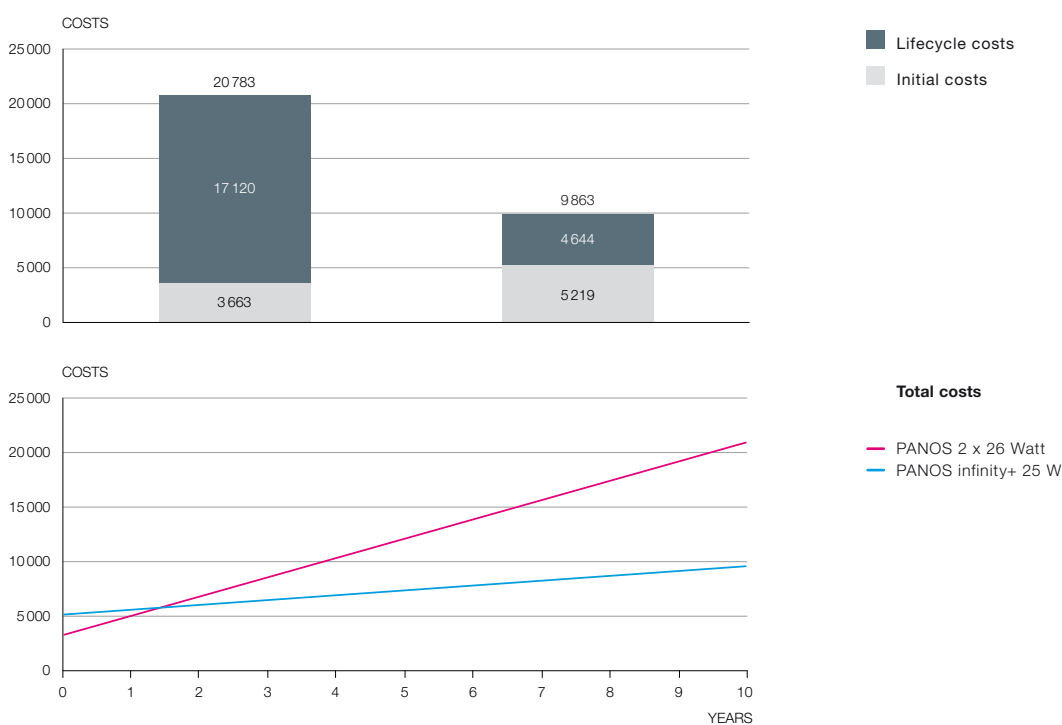


Switchable

### Cost comparison: installation with a service life of 10 years

49 luminaires  
PANOS HF 2/26 W

25 luminaires  
PANOS infinity+  
2400 lm, 25 W



### Design example using ecoCALC

Office with a floor area of 10 x 10 m, required illuminance on the task level (H=0.75 m, distance from the edge: 0.5 m) is 500 lux

Fittings	PANOS HF 2/26 W TC electr. ballast	PANOS infinity+ 2400 lm, 25 W
Number of luminaires	49	25
Maintenance illuminance	500 lx	500 lx
Uniformity	0.72	0.66
Installed load individual lum.	57.5 W	25.0 W
Total installed load	2817.5 W	625.0 W
Specific maintenance factor*	0.58	0.73
Annual energy costs**	1289 €	286 €
Costs of relamping per year***	228 €	0 €

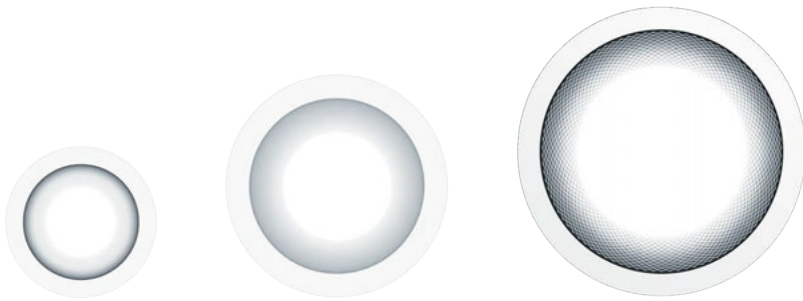
\* 0.58: cleaning of luminaires every 3 years, relamping: every 3 years, room maintenance after 6 years  
0.73: cleaning of luminaires every 2 years, relamping not required (LED), room maintenance after 6 years

\*\* Energy costs: € 0.12 per kWh at 7% increase, operating hours: 11 hours, 250 days a year (acc. to DIN 18599-Part 10)

\*\*\* Costs per relamping: € 7 incl. lamp

## PANOS infinity 100

Maximum efficiency, minimum size



PANOS infinity  
Models: HG 100, HM 150 and HF 200 with frame

Thanks to PANOS infinity's consistently maintained benefits, the small downlights are in no way inferior to the larger counterparts. With a diameter of only 100 mm, the PANOS infinity 100 range achieves a luminous flux of 960 lumens and a system output of only 12 W.

Their luminaire efficiency of up to 80 lumens per watt, superior lighting quality and excellent colour rendering make these recessed luminaires ideal for any general lighting application – quite spectacularly without any frame, or with an exposed luminaire cover ring. In terms of colour temperature, there is a choice of 3000 K or 4000 K. A variety of 'Low' reflectors are available: with a highly specular sputtered finish (glare control: UGR < 19), in matt silver, or painted in white. This variety of surface finishes is also available for the 'High' reflectors, which feature a cut-off angle of 45° making the light source invisible.

### PANOS infinity 100

**Diameter**  
ø 100 mm

**Recessed depth**  
100 mm | 130 mm

**Colour temperatures**  
3000 K | 4000 K

**Lumen package**  
960 lm

**Reflector surface finishes**  
Smooth | Matt | Painted

**Mounting frame**  
With frame | Frameless

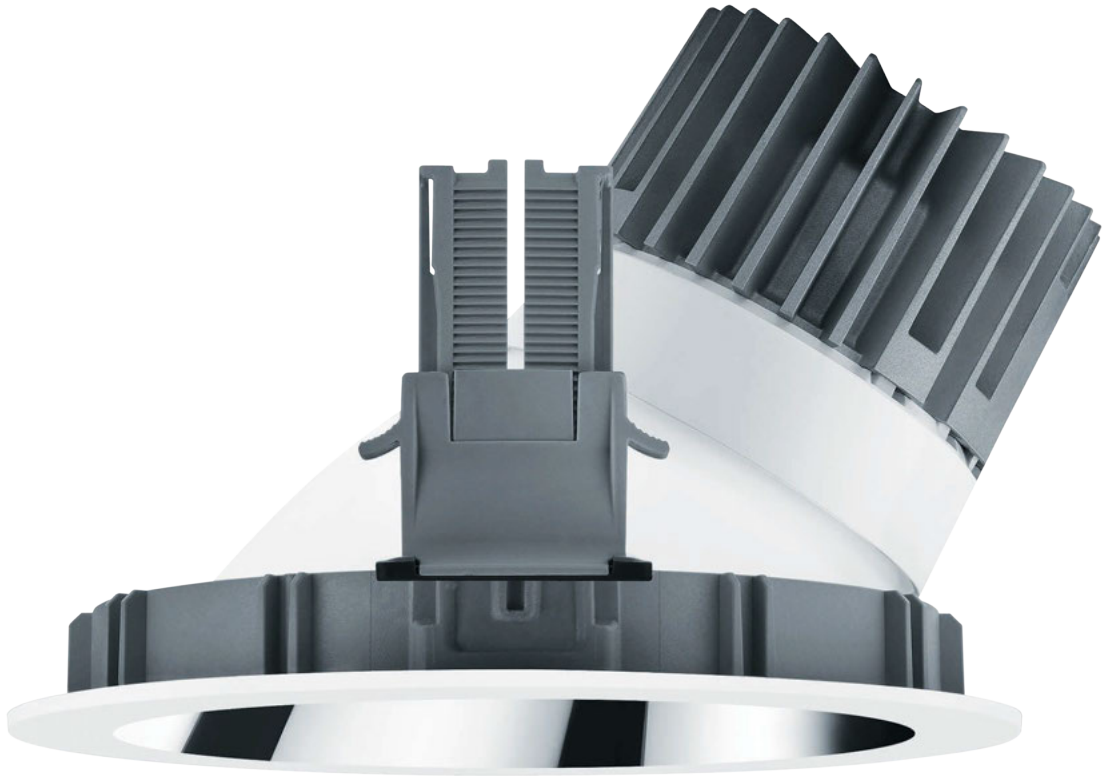
**Attachments and accessories**  
See summary of range on page 26



PANOS infinity  
Model: HG 100 with frame | 1:1 scale

## PANOS infinity wallwasher

Impressive lighting quality with unique energy efficiency



PANOS infinity wallwasher  
Model: HG 150 with frame | 1:1 scale

### Lighting quality meets efficiency

PANOS infinity wallwashers provide very good and uniform illumination, directing the light precisely to where it is actually required dependant on the application. A low system output is sufficient to obtain high vertical illuminance levels. Optical systems with specially designed asymmetrical reflectors achieve excellent luminaire efficiency levels of > 80 lumens per watt. Thus, the luminaire and the lighting concept help to save energy.

Stable White models with luminous flux levels of 800 lumens, more than 1000 lumens or more than 1800 lumens are an economically efficient alternative to wallwashers with conventional compact fluorescent lamps and HIT lamps. Using PANOS infinity Tunable White wallwashers, completely new lighting situations with variable colour temperatures can be implemented. The PANOS infinity wallwasher 150 cannot fail to impress with its superior lighting quality, which is achieved by an asymmetrical highly specular reflector together with an additional built-in domed MPO lens.

### Application

There is more than just one good reason to use PANOS infinity wallwashers. They are the perfect solution for a variety of lighting tasks such as:

- **Room atmosphere:** vertical illuminance levels make a room appear larger, creating a brighter and more pleasant atmosphere.
- **Visual comfort:** vertical illuminance levels facilitate looking around in a room, since the human eye requires less adaptation.
- **Sense of security:** vertical illuminance levels facilitate orientation.
- **Balance:** mounted at some distance from the windows or on the opposite side, vertical illuminance levels provide a well-balanced atmosphere to compensate for the high luminance levels of daylight.
- **Saving energy:** general lighting can be focussed to, and create zones in, those areas where visual tasks have to be performed.
- **Directing attention:** vertical illuminance levels put the focus on vertical visual tasks such as those provided by shelves, retail or exhibition areas.

The recommended levels of vertical illuminance depend on the application area in question: levels of approx. 175 lx are suitable for offices, while in museums the level may vary between 50 and 200 lx, and 200 lx are ideal for shops.



PANOS infinity wallwasher  
Model: HG 150 with frame



PANOS infinity wallwasher  
Model: HG 200 with frame

# PANOS infinity wallwashers

## Design and installation

### Design tips

When designing a lighting solution, the following principles have to be kept in mind:

- In order to illuminate walls uniformly, the distance to the wall should be about one third of the room height or slightly less.
- A shorter distance to the wall also reduces the risk of glare and improves lighting efficiency, but also decreases uniformity.
- To achieve uniform light distribution across the entire surface of the wall, the ratio of minimum and maximum level of illuminance should be at least 1 : 2.5.
- If the spacing between luminaires more or less corresponds to the distance from the wall, horizontal uniformity is achieved.
- In case of high rooms, a reduction of spacing between luminaires is recommended.
- To achieve uniform illumination of a wall by overlapping several light distribution areas, at least three wallwashers are required.



### Lemgo Light Forum application picture

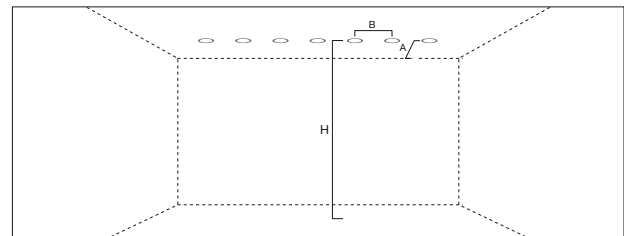
**Room height**  
3.00 m

**Model**  
PANOS infinity wallwasher 18 W

**Distance from luminaires to wall**  
0.90 m

**Spacing between luminaires**  
0.90 m

Model	H	A	B	Em	G <sub>r</sub>
E150   12/13 W	2.50	0.80	0.80	226	0.51
Stable White:	2.70	0.80	0.80	213	0.47
	3.00	0.80	0.80	196	0.43
	4.00	1.00	1.00	122	0.41
	5.00	1.00	1.00	102	0.35
E200   16 W	2.70	0.60	1.00	279	0.44
Stable White:	2.70	0.80	1.00	262	0.59
	3.00	1.00	0.80	248	0.49
	4.00	1.00	1.00	166	0.41
	5.00	1.25	1.00	128	0.36
E200   23 W	2.70	0.60	1.00	491	0.43
Stable White	2.70	0.80	1.00	464	0.58
	3.00	0.80	1.00	398	0.47
	4.00	1.00	1.00	293	0.39
	5.00	1.25	1.00	227	0.38
E200   22 W	2.70	0.60	1.00	284	0.40
Tunable White	2.70	0.80	1.00	264	0.56
	3.00	1.00	1.00	225	0.40
	4.00	1.00	1.00	185	0.39
	5.00	1.00	1.00	143	0.37



H = mounting height in m  
A = distance from luminaire to wall in m  
B = spacing between luminaires in m  
Em = average level of illuminance in lx  
G<sub>r</sub> = uniformity of illuminance





PANOS infinity wallwasher | model: HG 200 with frame | in plasterboard ceiling

### Arrows lead the way

When installing mounting frames or planar rings, the important thing is to align the arrow to the area to be illuminated. Then everything else is quite simple. When inserting the wallwasher, just make sure that the arrow markings on the luminaire and on the mounting frame overlap. Thus, the wallwasher – with frame or frameless – can easily be positioned with high precision. Thanks to the tried and tested twist-and-lock mechanism, installation is extremely easy.



Both mounting ring and luminaire are marked by arrows defining the direction



The planar ring required for the frameless model is also clearly marked with an arrow



Insert luminaire using twist-and-lock mechanism



Twist the luminaire to lock it

## **PANOS infinity surface-mounted**

Surface-mounted instead of recessed



PANOS infinity surface-mounted | Model: E200 HL

### **Traditional and efficient**

Wherever structural conditions require downlights to be surface-mounted, the PANOS infinity surface-mounted housing is the perfect solution: in a traditional design, circular or square, with an overall height of only 206 mm and a diameter of 235 mm, or a side length of 227 mm, the white housing made of die-cast aluminium blends discreetly into any architecture, yet with style.

The housings, which are available as accessories, accommodate all 200 mm PANOS infinity High WH and 190 mm PANOS infinity Q190 High standard luminaires. Installation and connection features of the housing and the luminaire are perfectly matched. The same technical lighting and decorative accessories as the recessed luminaires are available.



PANOS infinity surface-mounted | Model: Q227 HG

**Installation of E200**



Fix upper part of housing



Connect cables



Connect converter using cable kit and click into spring clip



Fix upper part of housing



Connect cables



Connect converter using cable kit and fix by means of fixing bracket



Secure surface-mounted housing via twist-and-lock mechanism



Connect luminaire



Insert luminaire by means of twist-and-lock fastener



Hook in luminaire, then push forward until spring clip snaps in



Connect luminaire

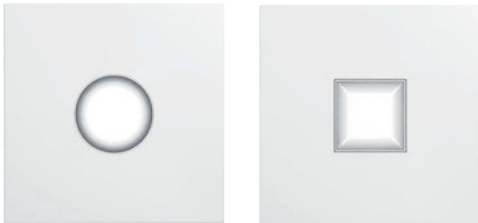


Insert luminaire into housing and fix by exerting firm pressure

**Installation of Q227**

# PANOS infinity surface-mounted

Surface-mounted instead of recessed



PANOS infinity surface mounted | models: E150 and Q140

## Surface-mounted, yet part of the architecture

The flat, square surface-mounted housing adds external volume to the PANOS infinity downlight. Yet, thanks to strictly geometrical shapes and a total height of just 122 mm, the luminaire is still an integral part of the architecture. The frameless PANOS infinity 'Low' E150 and Q140 downlights can effortlessly be inserted into the white surface-mounted housing. The pre-installed planar ring ensures quick and easy installation of the frameless standard luminaires. The square housing accommodates even emergency lighting versions with NA3 separate battery.



PANOS infinity surface mounted | model: Q140 LG

### Installation



Fix upper part of housing and connect cable



Hook in lower part of housing



Connect converter using cable kit and insert into lower part of housing



Snap lower part of housing into place and fasten with screws



Connect luminaire



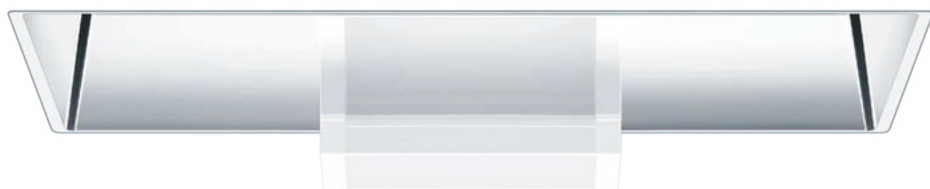
Insert luminaire

## PANOS infinity

### Decorative accessories



PANOS infinity | model: HL 200 frameless with decorative cylinder



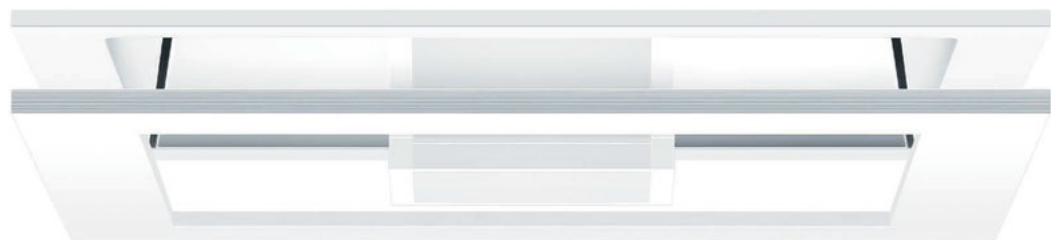
PANOS infinity Q | model: Q190 HG frameless with decorative cube

#### **The continuation of a high quality design concept**

The downlights' visual appeal is enhanced by decorative rings. Thus, high-quality materials are a perfect supplement to sophisticated interior designs. Two decorative rings are available in brushed aluminium, with a natural or anthracite anodised finish, which are installed with a turn of the wrist using the tried-and-tested twist-and-lock mechanism. With the decorative acrylic glass cylinder and the new decorative panel, PANOS infinity is provided with another unique feature in terms of lighting technology. Fitted between the reflector and the LED module, the translucent attachment makes the luminaire appear to float. It is suitable for frameless models as well as for those with a visible ceiling ring. All decorative accessories are fully matched to the overall design of the range and therefore available for both round and square downlights.



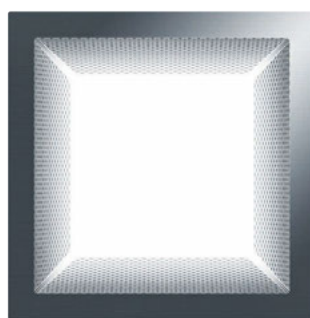
PANOS infinity | model: HM 200 with frame and decorative panel



PANOS infinity Q | model: Q190 HG with frame and decorative panel



Decorative ring, brushed aluminium  
Natural anodised finish



Decorative frame  
Anthracite

# PANOS infinity

## Frameless installation



PANOS infinity | model: HF 200 frameless | flush-mounted in plasterboard ceiling

### Precision at the turn of the wrist

Thanks to a perforated planar ring, it is extremely easy to install the frameless PANOS infinity model flush with the ceiling with high precision. Simply insert the planar ring into the plasterboard ceiling from below and apply plaster in a wide area to integrate the luminaire perfectly into the ceiling.



After applying plaster, connect the luminaire to electrical power supply



Insert luminaire



Mounting position is indicated by marking



Twist the luminaire to lock it

For more information on how to install the downlights, please visit [www.zumtobel.com/panosinfinity](http://www.zumtobel.com/panosinfinity) and refer to the installation instructions.

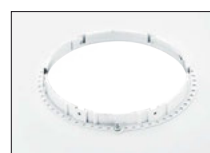




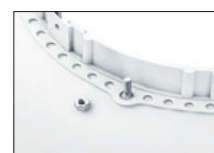
PANOS infinity | model: HF 200 frameless | flush-mounted in Armstrong ceiling element

### A perfect combination

Armstrong ceiling elements and Zumtobel luminaires are perfectly matched to each other, thus meeting a requirement often posed by architects. Sophisticated architectural solutions can now be installed easily and without major effort. Ceiling elements with ceiling cut-out ready to accommodate PANOS infinity are available in a variety of high-quality versions from Armstrong sales partners.



Insert planar ring from above



Align planar ring



Fasten planar ring



Insert ceiling element and fasten luminaire using the twist-and-lock mechanism



# PANOS infinity Q

## Installation of square model



PANOS infinity Q | model: Q190 HG frameless | flush-mounted in plasterboard ceiling

### All-round high precision

Thanks to a perforated mounting frame (planar ring), it is extremely easy to install the frameless PANOS infinity Q model flush with the ceiling with high precision. Simply insert the mounting frame into the plasterboard ceiling from below and apply plaster in a wide area to integrate the luminaire perfectly into the ceiling. As with the models with a visible ceiling ring, the luminaire is simply clicked into place after electrical connection using the easy-click mechanism. Thanks to this fastening system (patent pending), removal of the luminaire is equally easy.



Insert mounting frame and apply plaster flush with the ceiling



Connect luminaire to electrical power supply



Insert luminaire



The luminaire is properly fixed as soon as the easy-click mechanism snaps in

For more information on how to install the downlights, please visit [www.zumtobel.com/panosinfinity](http://www.zumtobel.com/panosinfinity) and refer to the installation instructions.



PANOS infinity Q | model: Q190 HM with frame | in plasterboard ceiling



Insert mounting frame into ceiling



Secure mounting springs



Connect luminaire to electrical power supply



Insert luminaire



The luminaire is properly fixed as soon as the easy-click mechanism snaps in



Removal of luminaire: remove reflector frame



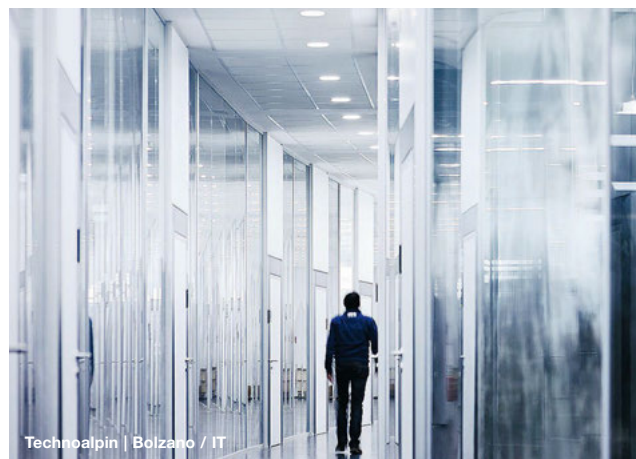
Press luminaire upwards to unlock



Remove luminaire

# PANOS infinity

Examples of application versatility





VHV Hannoversche Lebensversicherung AG, Hanover / DE



Hotel Ramada, Milan / IT



Mirage Shopping Center, Zilina / SK



## PANOS infinity+

|...| Shared properties PANOS infinity+ LOW

- Ideal where ceiling space is limited: recessed depth just 100 mm
- “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
- EN12464 compliant for office applications with UGR < 19 when fitted with anti-glare ring (see attachments)
- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 70 % luminous flux
- Luminaire efficiency >100 lm/W
- Luminaire luminous flux > 2400 lm
- Colour rendering index: Ra > 90
- Installation: die-cast aluminium mounting ring with non-slip spring clips for tool-free recessed-mounting in ceilings of thickness 1–25 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- Flush-fitting ceiling models available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

### PANOS infinity+ E200 LF LED with faceted optic

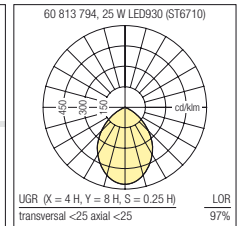
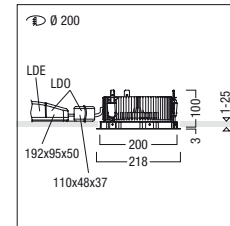


- |...|
- Faceted reflector; highly-reflective aluminised finish for zero iridescence



#### PANOS infinity+ E200 LF LED

	RD/RØ	kg	Order no.
25 W LED930	100/200	1.5	60 813 794
25 W LED940	100/200	1.5	60 813 796



### PANOS infinity+ E200 LG LED with smooth optic

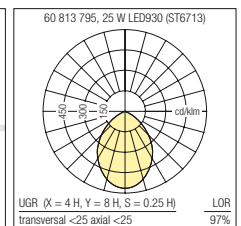
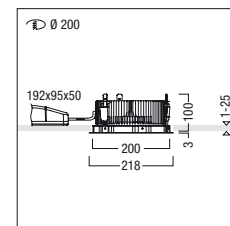


- |...|
- Smooth reflector; highly reflective aluminised finish for zero iridescence



#### PANOS infinity+ E200 LG LED

	RD/RØ	kg	Order no.
25 W LED930	100/200	1.5	60 813 795
25 W LED940	100/200	1.5	60 813 797



|...| Shared properties PANOS infinity+ HIGH

- “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
- EN12464 compliant for office applications with UGR < 19
- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 70 % luminous flux
- Luminaire efficiency >100 lm/W
- Luminaire luminous flux > 2400 lm
- Colour rendering index: Ra > 90
- Installation: die-cast aluminium mounting ring with non-slip spring clips for tool-free recessed-mounting in ceilings of thickness 1–25 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Minimum luminaire recess depth 140 mm
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- Flush-fitting ceiling models available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

**PANOS infinity+ E200 HF LED with faceted optic**



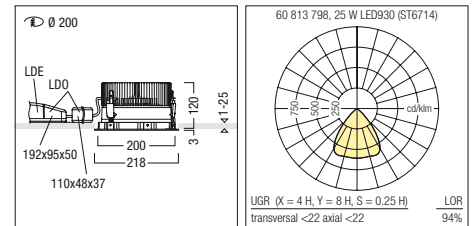
- |...|
- Faceted reflector; highly-reflective aluminised finish for zero iridescence



PANOS infinity+ E200 HF LED

	RD/RØ	kg	Order no.
25 W LED930	140/200	1.6	60 813 798
25 W LED940	140/200	1.6	60 813 800

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



**PANOS infinity+ E200 HG LED with smooth optic**



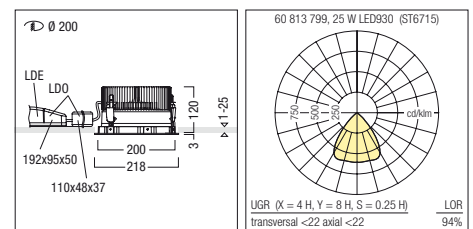
- |...|
- Smooth reflector; highly reflective aluminised finish for zero iridescence



PANOS infinity+ E200 HG LED

	RD/RØ	kg	Order no.
25 W LED930	140/200	1.6	60 813 799
25 W LED940	140/200	1.6	60 813 801

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Installed using PC mounting ring (glass fibre-reinforced) with anti-slip spring clips for tool-free fitting in ceiling recess for ceilings of thickness 1–40 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- Flush-fitting ceiling model: please order seating ring (planar ring) separately (see accessories)
- Can be used with 220 V DC group battery
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

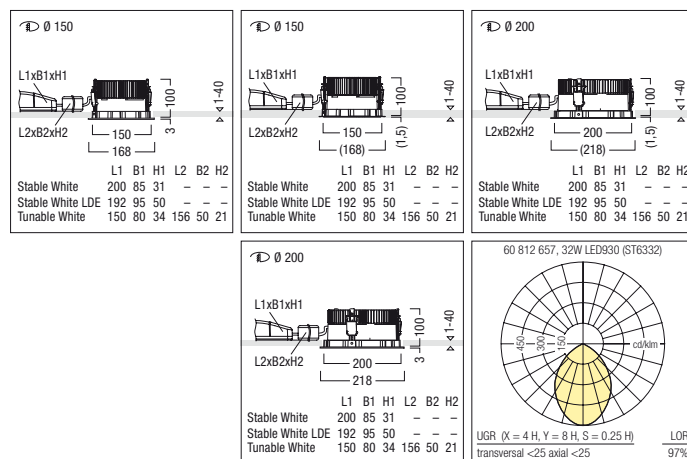
PANOS infinity E150/E200 LF LED with faceted optic



- [...]
- Ideal where ceiling space is limited: recessed depth just 100 mm
- “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
- Facetted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19 when fitted with anti-glare ring (see attachments)
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 80 % luminous flux
- “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
- “Stable White” colour rendering index: Ra > 90
- “Tunable White” colour rendering index: Ra 90
- 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
- “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
- Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 LF LED, white trim</b>			
14 W LED930 dimmable Dali only	100/150	1.3	60 814 754
14 W LED940 dimmable Dali only	100/150	1.3	60 814 756
21 W LED930 dimmable Dali only	100/150	1.3	60 814 770
21 W LED940 dimmable Dali only	100/150	1.3	60 814 772
22 W LED927-65 dimmable Dali	100/150	1.2	60 813 828
<b>PANOS infinity E150 LF LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	100/150	1.2	60 814 762
14 W LED940 dimmable Dali only	100/150	1.2	60 814 764
21 W LED930 dimmable Dali only	100/150	1.2	60 814 778
21 W LED940 dimmable Dali only	100/150	1.2	60 814 780
22 W LED927-65 dimmable Dali	100/150	1.1	60 813 836
<b>PANOS infinity E200 LF LED, white trim</b>			
21 W LED930 dimmable Dali only	100/200	1.6	60 814 786
21 W LED940 dimmable Dali only	100/200	1.6	60 814 788
29 W LED930 dimmable Dali only	100/200	1.6	60 814 802
29 W LED940 dimmable Dali only	100/200	1.6	60 814 804
32 W LED927-65 dimmable Dali	120/200	1.5	60 813 844
<b>PANOS infinity E200 LF LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	100/200	1.5	60 814 794
21 W LED940 dimmable Dali only	100/200	1.5	60 814 796
29 W LED930 dimmable Dali only	100/200	1.5	60 814 810
29 W LED940 dimmable Dali only	100/200	1.5	60 814 812
32 W LED927-65 dimmable Dali	120/200	1.4	60 813 852

See Attachments and Accessories for surface-mount housing for PANOS infinity E150 L.





PANOS infinity E100 LG LED with smooth optic



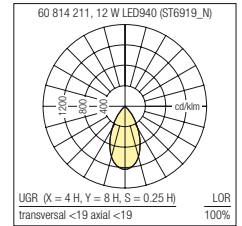
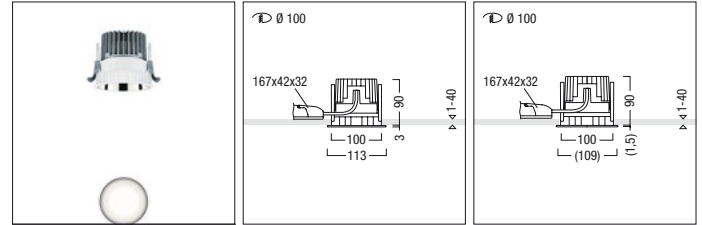
- [...]
  - For use where ceiling space is limited: recess depth just 100 mm or 115 mm (subject to restrictions: see installation instructions for details)
  - “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19
  - 30° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Pre-assembled model comprising luminaire and ballast unit (Dali)
  - 50,000h service life at 80 % luminous flux
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Colour rendering index: Ra > 90
  - Electrical connection: 4-pole terminal

PANOS infinity E100 LG LED, white trim

	RD/RØ	kg	Order no.
12 W LED940	100/100	0.4	60 814 211
13 W LED930	100/100	0.4	60 814 208

PANOS infinity E100 LG LED, flush-fitting in ceiling

	RD/RØ	kg	Order no.
12 W LED940	115/100	0.4	60 814 219
13 W LED930	115/100	0.4	60 814 216



PANOS infinity L

PANOS infinity E150/E200 LG LED with smooth optic

RD/RØ kg Order no.



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19 when fitted with anti-glare ring (see attachments)
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

PANOS infinity E150 LG LED, white trim

14 W LED930 dimmable Dali only	100/150	1.3	60 814 755
14 W LED940 dimmable Dali only	100/150	1.3	60 814 757
21 W LED930 dimmable Dali only	100/150	1.3	60 814 771
21 W LED940 dimmable Dali only	100/150	1.3	60 814 773
22 W LED927-65 dimmable Dali	100/150	1.2	60 813 829

PANOS infinity E150 LG LED, flush in ceiling

14 W LED930 dimmable Dali only	100/150	1.2	60 814 763
14 W LED940 dimmable Dali only	100/150	1.2	60 814 765
21 W LED930 dimmable Dali only	100/150	1.2	60 814 779
21 W LED940 dimmable Dali only	100/150	1.2	60 814 781
22 W LED927-65 dimmable Dali	100/150	1.1	60 813 837

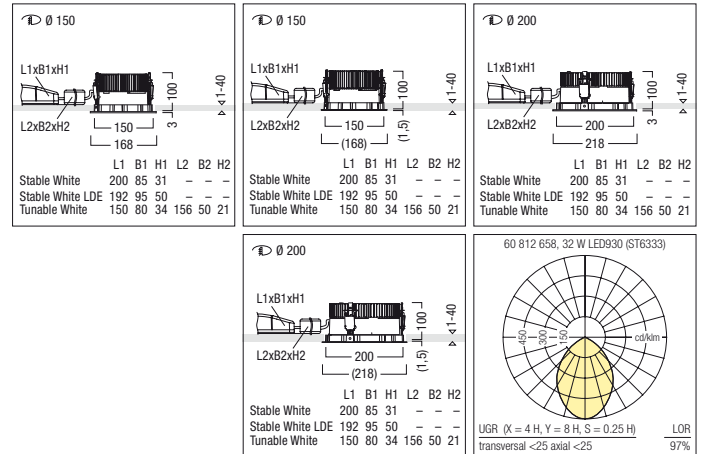
PANOS infinity E200 LG LED, white trim

21 W LED930 dimmable Dali only	100/200	1.6	60 814 787
21 W LED940 dimmable Dali only	100/200	1.6	60 814 789
29 W LED930 dimmable Dali only	100/200	1.6	60 814 803
29 W LED940 dimmable Dali only	100/200	1.6	60 814 805
32 W LED927-65 dimmable Dali	120/200	1.5	60 813 845

PANOS infinity E200 LG LED, flush in ceiling

21 W LED930 dimmable Dali only	100/200	1.5	60 814 795
21 W LED940 dimmable Dali only	100/200	1.5	60 814 797
29 W LED930 dimmable Dali only	100/200	1.5	60 814 811
29 W LED940 dimmable Dali only	100/200	1.5	60 814 813
32 W LED927-65 dimmable Dali	120/200	1.4	60 813 853

See Attachments and Accessories for surface-mount housing for PANOS infinity E150 L.

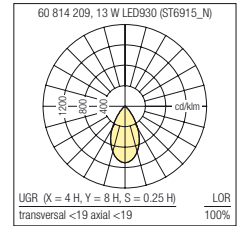
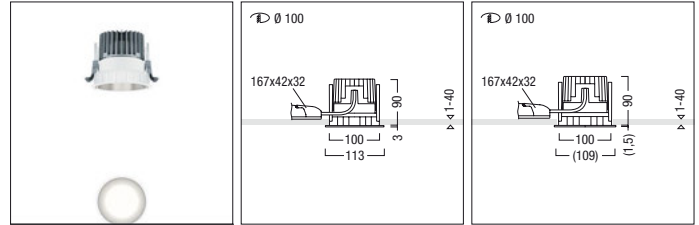


PANOS infinity E100 LM LED with matt optic



- [...]
  - For use where ceiling space is limited: recess depth just 100 mm or 115 mm (subject to restrictions: see installation instructions for details)
  - “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
  - Matt reflector with smooth aluminium-look finish
  - 30° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Pre-assembled model comprising luminaire and ballast unit (Dali)
  - 50,000h service life at 80 % luminous flux
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Colour rendering index: Ra > 90
  - Electrical connection: 4-pole terminal

	RD/RØ	kg	Order no.
<b>PANOS infinity E100 LM LED, white trim</b>			
12 W LED940	100/100	0.4	60 814 212
13 W LED930	100/100	0.4	60 814 209
<b>PANOS infinity E100 LM LED, flush-fitting in ceiling</b>			
12 W LED940	115/100	0.4	60 814 220
13 W LED930	115/100	0.4	60 814 217



PANOS infinity L

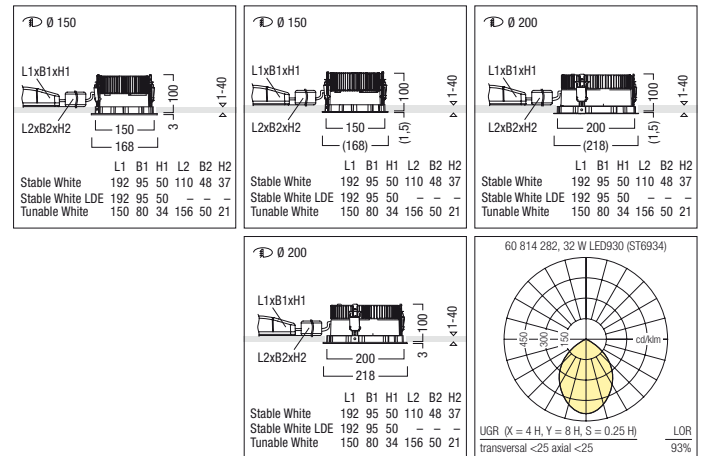
PANOS infinity E150/E200 LM LED with matt optic



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - Matt reflector with smooth aluminium-look finish
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 LM LED, white trim</b>			
<i>dimmmable Dali</i>			
16 W LED930	100/150	1.2	60 814 258
16 W LED940	100/150	1.2	60 814 259
22 W LED927-65	100/150	1.2	60 813 830
23 W LED930	100/150	1.2	60 814 266
23 W LED940	100/150	1.2	60 814 267
<b>PANOS infinity E150 LM LED, flush in ceiling</b>			
<i>dimmmable Dali</i>			
16 W LED930	100/150	1.1	60 814 262
16 W LED940	100/150	1.1	60 814 263
22 W LED927-65	100/150	1.1	60 813 838
23 W LED930	100/150	1.1	60 814 270
23 W LED940	100/150	1.1	60 814 271
<b>PANOS infinity E200 LM LED, white trim</b>			
<i>dimmmable Dali</i>			
23 W LED930	100/200	1.4	60 814 274
23 W LED940	100/200	1.4	60 814 275
32 W LED927-65	120/200	1.4	60 813 846
32 W LED930	100/200	1.4	60 814 282
32 W LED940	100/200	1.4	60 814 283
<b>PANOS infinity E200 LM LED, flush in ceiling</b>			
<i>dimmmable Dali</i>			
23 W LED930	100/200	1.3	60 814 278
23 W LED940	100/200	1.3	60 814 279
32 W LED927-65	120/200	1.3	60 813 854
32 W LED930	100/200	1.3	60 814 286
32 W LED940	100/200	1.3	60 814 287

See Attachments and Accessories for surface-mount housing for PANOS infinity E150 L.



PANOS infinity E100 LL LED with painted optic



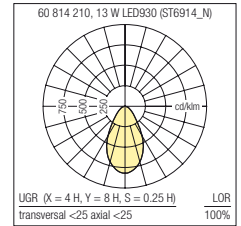
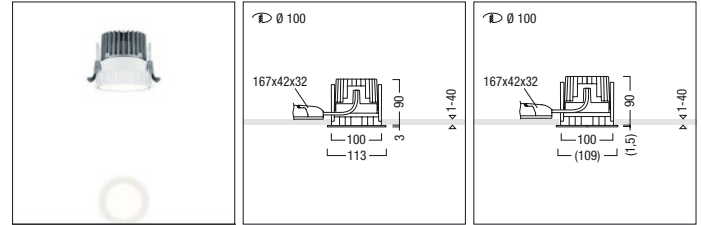
- [...]
  - For use where ceiling space is limited: recess depth just 100 mm or 115 mm (subject to restrictions: see installation instructions for details)
  - “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
  - White reflector, smooth
  - 30° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Pre-assembled model comprising luminaire and ballast unit (Dali)
  - 50,000h service life at 80 % luminous flux
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Colour rendering index: Ra > 90
  - Electrical connection: 4-pole terminal

PANOS infinity E100 LL LED, white trim

	RD/RØ	kg	Order no.
12 W LED940	100/100	0.4	60 814 213
13 W LED930	100/100	0.4	60 814 210

PANOS infinity E100 LL LED, flush-fitting in ceiling

	RD/RØ	kg	Order no.
12 W LED940	115/100	0.4	60 814 221
13 W LED930	115/100	0.4	60 814 218



PANOS infinity L

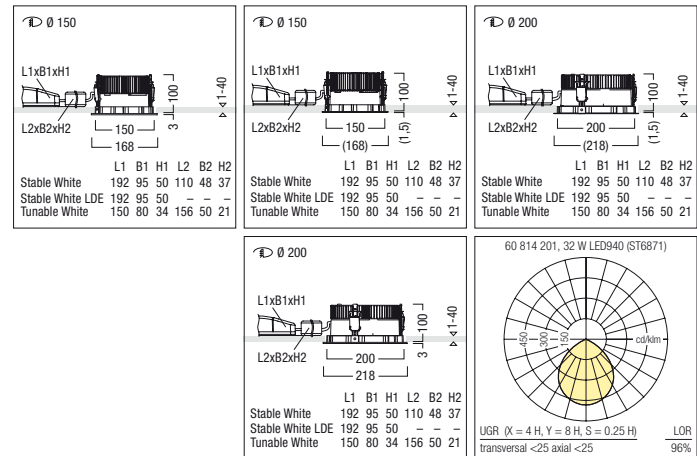
PANOS infinity E150/E200 LL LED with painted optic



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - White reflector, smooth
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 LL LED, white trim</b> <i>dimnable Dali</i>			
16 W LED930	100/150	1.2	60 814 176
16 W LED940	100/150	1.2	60 814 177
22 W LED927-65	100/150	1.2	60 813 831
23 W LED930	100/150	1.2	60 814 184
23 W LED940	100/150	1.2	60 814 185
<b>PANOS infinity E150 LL LED, flush in ceiling</b> <i>dimnable Dali</i>			
16 W LED930	100/150	1.1	60 814 180
16 W LED940	100/150	1.1	60 814 181
22 W LED927-65	100/150	1.1	60 813 839
23 W LED930	100/150	1.1	60 814 188
23 W LED940	100/150	1.1	60 814 189
<b>PANOS infinity E200 LL LED, white trim</b> <i>dimnable Dali</i>			
23 W LED930	100/200	1.4	60 814 192
23 W LED940	100/200	1.4	60 814 193
32 W LED927-65	120/200	1.4	60 813 847
32 W LED930	100/200	1.4	60 814 200
32 W LED940	100/200	1.4	60 814 201
<b>PANOS infinity E200 LL LED, flush in ceiling</b> <i>dimnable Dali</i>			
23 W LED930	100/200	1.3	60 814 196
23 W LED940	100/200	1.3	60 814 197
32 W LED927-65	120/200	1.3	60 813 855
32 W LED930	100/200	1.3	60 814 204
32 W LED940	100/200	1.3	60 814 205

See Attachments and Accessories for surface-mount housing for PANOS infinity E150 L.



[...] Shared properties PANOS infinity HIGH

- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Installed using PC mounting ring (glass fibre-reinforced) with anti-slip spring clips for tool-free fitting in ceiling recess for ceilings of thickness 1–40 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- Flush-fitting ceiling model: please order seating ring (planar ring) separately (see accessories)
- Can be used with 220 V DC group battery
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

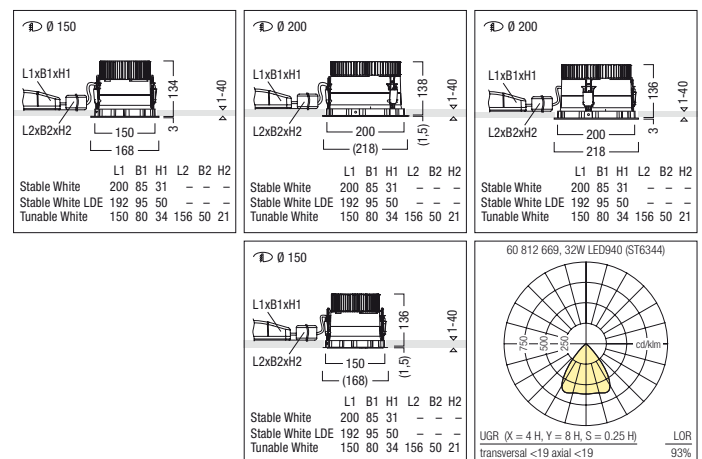
**PANOS infinity E150/E200 HF LED with faceted optic**



- [...]
- “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
- Facetted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 80 % luminous flux
- “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
- “Stable White” colour rendering index: Ra > 90
- “Tunable White” colour rendering index: Ra 90
- 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
- Minimum luminaire recess depth 140 mm
- “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
- Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 HF LED, white trim</b>			
14 W LED930 dimmable Dali only	140/150	1.3	60 814 758
14 W LED940 dimmable Dali only	140/150	1.3	60 814 760
21 W LED930 dimmable Dali only	140/150	1.3	60 814 774
21 W LED940 dimmable Dali only	140/150	1.3	60 814 776
22 W LED927-65 dimmable Dali	140/150	1.2	60 813 832
<b>PANOS infinity E150 HF LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	140/150	1.2	60 814 766
14 W LED940 dimmable Dali only	140/150	1.2	60 814 768
21 W LED930 dimmable Dali only	140/150	1.2	60 814 782
21 W LED940 dimmable Dali only	140/150	1.2	60 814 784
22 W LED927-65 dimmable Dali	140/150	1.1	60 813 840
<b>PANOS infinity E200 HF LED, white trim</b>			
21 W LED930 dimmable Dali only	140/200	1.7	60 814 790
21 W LED940 dimmable Dali only	140/200	1.7	60 814 792
29 W LED930 dimmable Dali only	140/200	1.7	60 814 806
29 W LED940 dimmable Dali only	140/200	1.7	60 814 808
32 W LED927-65 dimmable Dali	160/200	1.6	60 813 848
<b>PANOS infinity E200 HF LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	140/200	1.6	60 814 798
21 W LED940 dimmable Dali only	140/200	1.6	60 814 800
29 W LED930 dimmable Dali only	140/200	1.6	60 814 814
29 W LED940 dimmable Dali only	140/200	1.6	60 814 816
32 W LED927-65 dimmable Dali	160/200	1.5	60 813 856

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



## PANOS infinity H

### PANOS infinity E100 HG LED with smooth optic



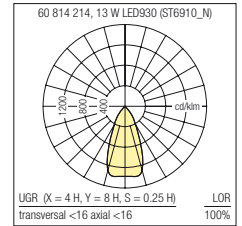
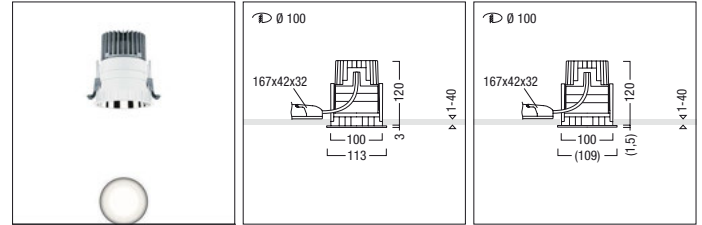
- [...]
  - "Stable White" LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19
  - 45° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Pre-assembled model comprising luminaire and ballast unit (Dali)
  - 50,000h service life at 80 % luminous flux
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Colour rendering index: Ra > 90
  - Electrical connection: 4-pole terminal
  - Minimum luminaire recess depth 130 mm

#### PANOS infinity E100 HG LED, white trim

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.5	60 814 215
13 W LED930	130/100	0.5	60 814 214

#### PANOS infinity E100 HG LED, flush-fitting in ceiling

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.4	60 814 223
13 W LED930	130/100	0.4	60 814 222





PANOS infinity E150/E200 HG LED with smooth optic



- [...]
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - Minimum luminaire recess depth 140 mm
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

PANOS infinity E150 HG LED, white trim

	RD/RØ	kg	Order no.
14 W LED930 dimmable Dali only	140/150	1.3	60 814 759
14 W LED940 dimmable Dali only	140/150	1.3	60 814 761
21 W LED930 dimmable Dali only	140/150	1.3	60 814 775
21 W LED940 dimmable Dali only	140/150	1.3	60 814 777
22 W LED927-65 dimmable Dali	140/150	1.2	60 813 833

PANOS infinity E150 HG LED, flush in ceiling

	RD/RØ	kg	Order no.
14 W LED930 dimmable Dali only	140/150	1.2	60 814 767
14 W LED940 dimmable Dali only	140/150	1.2	60 814 769
21 W LED930 dimmable Dali only	140/150	1.2	60 814 783
21 W LED940 dimmable Dali only	140/150	1.2	60 814 785
22 W LED927-65 dimmable Dali	140/150	1.1	60 813 841

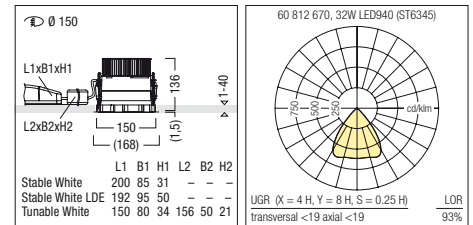
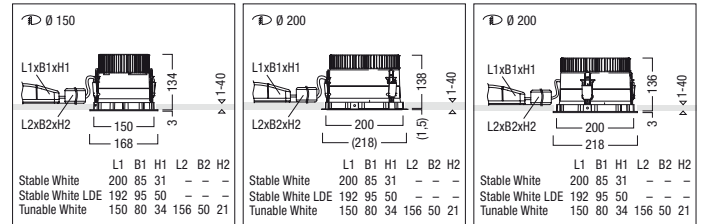
PANOS infinity E200 HG LED, white trim

	RD/RØ	kg	Order no.
21 W LED930 dimmable Dali only	140/200	1.7	60 814 791
21 W LED940 dimmable Dali only	140/200	1.7	60 814 793
29 W LED930 dimmable Dali only	140/200	1.7	60 814 807
29 W LED940 dimmable Dali only	140/200	1.7	60 814 809
32 W LED927-65 dimmable Dali	160/200	1.6	60 813 849

PANOS infinity E200 HG LED, flush in ceiling

	RD/RØ	kg	Order no.
21 W LED930 dimmable Dali only	140/200	1.6	60 814 799
21 W LED940 dimmable Dali only	140/200	1.6	60 814 801
29 W LED930 dimmable Dali only	140/200	1.6	60 814 815
29 W LED940 dimmable Dali only	140/200	1.6	60 814 817
32 W LED927-65 dimmable Dali	160/200	1.5	60 813 857

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



## PANOS infinity H

### PANOS infinity E100 HM LED with matt optic



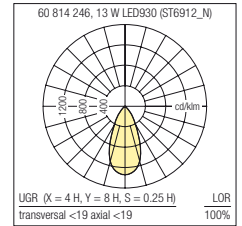
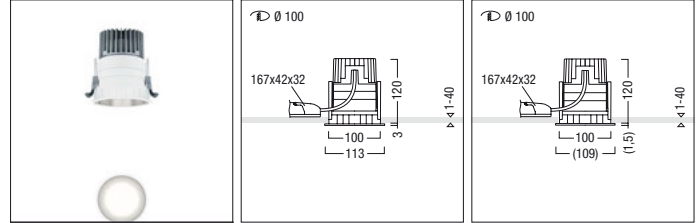
- [...]
  - "Stable White" LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
- Matt reflector with smooth aluminium-look finish
- 45° shielding angle
- High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
- Pre-assembled model comprising luminaire and ballast unit (Dali)
- 50,000h service life at 80 % luminous flux
- Luminaire luminous flux up to 960 lm (dependent on luminaire type)
- Colour rendering index: Ra > 90
- Electrical connection: 4-pole terminal
- Minimum luminaire recess depth 130 mm

#### PANOS infinity E100 HM LED, white trim

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.5	60 814 247
13 W LED930	130/100	0.5	60 814 246

#### PANOS infinity E100 HM LED, flush-fitting in ceiling

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.4	60 814 249
13 W LED930	130/100	0.4	60 814 248



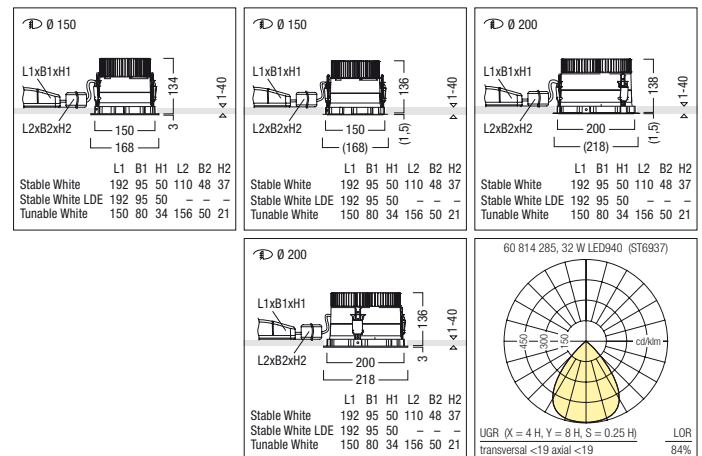
PANOS infinity E150/E200 HM LED with matt optic



- [...]
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - Matt reflector with smooth aluminium-look finish
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - Minimum luminaire recess depth 140 mm
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 HM LED, white trim</b>			
<i>dimnable Dali</i>			
16 W LED930	140/150	1.2	60 814 260
16 W LED940	140/150	1.2	60 814 261
22 W LED927-65	140/150	1.2	60 813 834
23 W LED930	140/150	1.2	60 814 268
23 W LED940	140/150	1.2	60 814 269
<b>PANOS infinity E150 HM LED, flush in ceiling</b>			
<i>dimnable Dali</i>			
16 W LED930	140/150	1.1	60 814 264
16 W LED940	140/150	1.1	60 814 265
22 W LED927-65	140/150	1.1	60 813 842
23 W LED930	140/150	1.1	60 814 272
23 W LED940	140/150	1.1	60 814 273
<b>PANOS infinity E200 HM LED, white trim</b>			
<i>dimnable Dali</i>			
23 W LED930	140/200	1.5	60 814 276
23 W LED940	140/200	1.5	60 814 277
32 W LED927-65	160/200	1.5	60 813 850
32 W LED930	140/200	1.5	60 814 284
32 W LED940	140/200	1.5	60 814 285
<b>PANOS infinity E200 HM LED, flush in ceiling</b>			
<i>dimnable Dali</i>			
23 W LED930	140/200	1.4	60 814 280
23 W LED940	140/200	1.4	60 814 281
32 W LED927-65	160/200	1.4	60 813 858
32 W LED930	140/200	1.4	60 814 288
32 W LED940	140/200	1.4	60 814 289

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



# PANOS infinity H

## PANOS infinity E100 HL LED with painted optic



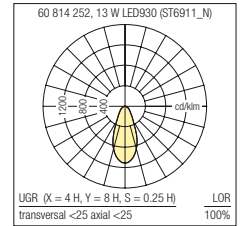
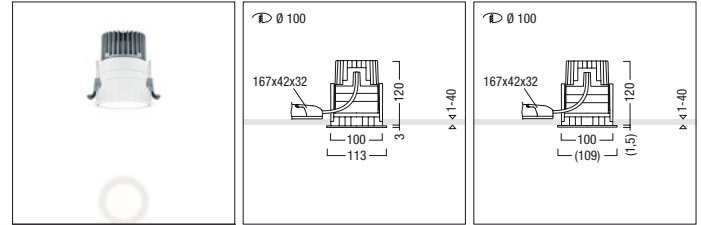
- [...]
  - “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
  - White reflector, smooth
  - 45° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Pre-assembled model comprising luminaire and ballast unit (Dali)
  - 50,000h service life at 80 % luminous flux
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Colour rendering index: Ra > 90
  - Electrical connection: 4-pole terminal
  - Minimum luminaire recess depth 130 mm
  - Models incorporating 3-hour emergency lighting are available on request

### PANOS infinity E100 HL LED, white trim

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.5	60 814 253
13 W LED930	130/100	0.5	60 814 252

### PANOS infinity E100 HL LED, flush-fitting in ceiling

	RD/RØ	kg	Order no.
12 W LED940	130/100	0.4	60 814 255
13 W LED930	130/100	0.4	60 814 254



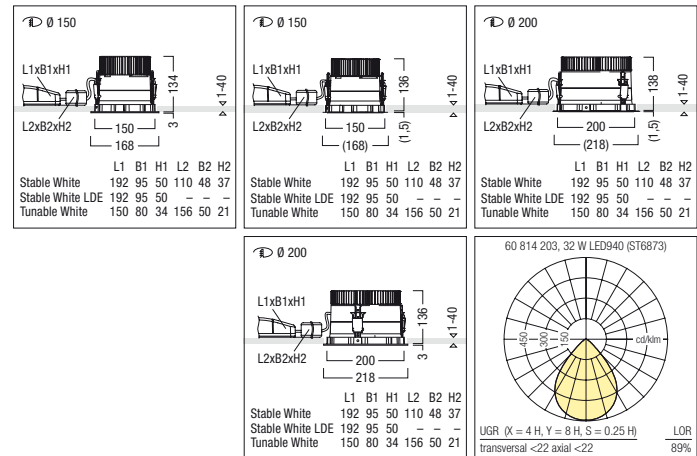
PANOS infinity E150/E200 HL LED with painted optic



- [...]
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - White reflector, smooth
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - Minimum luminaire recess depth 140 mm
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
  - Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 HL LED, white trim</b>			
<i>dimmmable Dali</i>			
16 W LED930	140/150	1.2	60 814 178
16 W LED940	140/150	1.2	60 814 179
22 W LED927-65	140/150	1.2	60 813 835
23 W LED930	140/150	1.2	60 814 186
23 W LED940	140/150	1.2	60 814 187
<b>PANOS infinity E150 HL LED, flush in ceiling</b>			
<i>dimmmable Dali</i>			
16 W LED930	140/150	1.1	60 814 182
16 W LED940	140/150	1.1	60 814 183
22 W LED927-65	140/150	1.1	60 813 843
23 W LED930	140/150	1.1	60 814 190
23 W LED940	140/150	1.1	60 814 191
<b>PANOS infinity E200 HL LED, white trim</b>			
<i>dimmmable Dali</i>			
23 W LED930	140/200	1.5	60 814 194
23 W LED940	140/200	1.5	60 814 195
32 W LED927-65	160/200	1.5	60 813 851
32 W LED930	140/200	1.5	60 814 202
32 W LED940	140/200	1.5	60 814 203
<b>PANOS infinity E200 HL LED, flush in ceiling</b>			
<i>dimmmable Dali</i>			
23 W LED930	140/200	1.4	60 814 198
23 W LED940	140/200	1.4	60 814 199
32 W LED927-65	160/200	1.4	60 813 859
32 W LED930	140/200	1.4	60 814 206
32 W LED940	140/200	1.4	60 814 207

See Attachments and Accessories for surface-mount housing for PANOS infinity E200 H.



## PANOS infinity WW

|...| Shared properties PANOS infinity WW

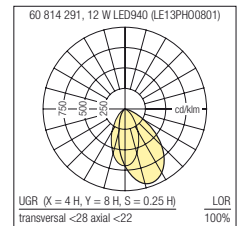
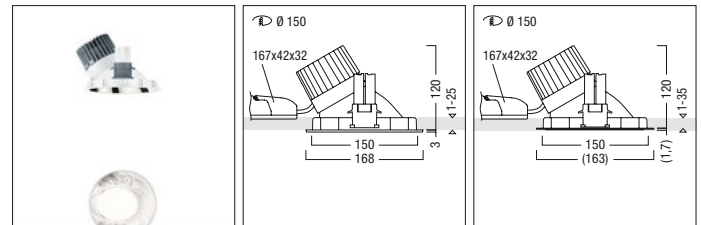
- Asymmetric light distribution with maximum luminaire efficiency and optimised photometric properties
- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Installed using polycarbonate mounting ring (glass fibre-reinforced) with anti-slip spring clips for tool-free fitting in ceiling recess for ceilings of thickness 1–25 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- Flush-fitting ceiling model: please order seating ring (planar ring) separately (see accessories)
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

### PANOS infinity E150 WW LED wallwasher



- |...|
- “Stable White” LED luminaires; stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
- Smooth reflector in aluminized highly specular finish, iridescence-free with additional curved MPO+ (micro-pyramidal) optic
- High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
- Pre-assembled model comprising luminaire and ballast unit (Dali)
- 50,000 h service life at 80 % luminous flux
- Luminaire luminous flux: 800 lm
- Colour rendering index: Ra > 90
- Electrical connection: 4-pole terminal
- Minimum luminaire recess depth 130 mm
- Can be used with 220 V DC group battery

	RD/RØ	kg	Order no.
<b>PANOS infinity E150 WW LED, white trim</b>			
12 W LED940	130/150	0.6	<i>dimnable Dali</i> 60 814 291
13 W LED930	130/150	0.6	60 814 290
<b>PANOS infinity E150 WW LED, flush-fitting in ceiling</b>			
12 W LED940	130/150	0.4	<i>dimnable Dali</i> 60 814 294
13 W LED930	130/150	0.4	60 814 293



PANOS infinity E200 WW LED Wallwasher



- [...]
  - “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Complete model comprises luminaire and ballast unit
  - With controllable ballast (Dali), separate unit
  - Service life: 50,000 h at 80 % luminous flux
  - “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm (depending on luminaire type)
  - “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
  - “Stable White” colour rendering index: Ra > 90
  - “Tunable White” colour rendering index: Ra 90
  - 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
  - “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)

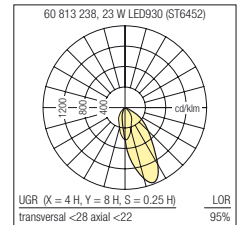
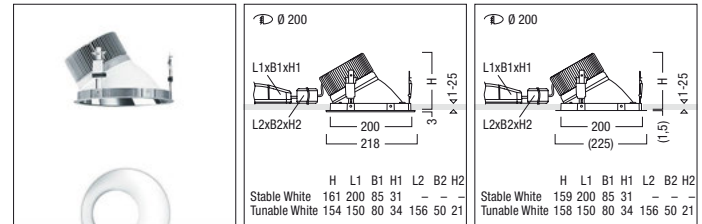
RD/RØ kg Order no.

PANOS infinity E200 WW LED, white trim

14 W LED930 dimmable Dali only	165/200	1.3	60 814 818
14 W LED940 dimmable Dali only	165/200	1.3	60 814 819
21 W LED930 dimmable Dali only	165/200	1.3	60 814 822
21 W LED940 dimmable Dali only	165/200	1.3	60 814 823
22 W LED927-65 dimmable Dali	160/200	1.2	60 813 892

PANOS infinity E200 WW LED, flush in ceiling

14 W LED930 dimmable Dali only	165/200	1.3	60 814 820
14 W LED940 dimmable Dali only	165/200	1.3	60 814 821
21 W LED930 dimmable Dali only	165/200	1.3	60 814 824
21 W LED940 dimmable Dali only	165/200	1.3	60 814 825
22 W LED927-65 dimmable Dali	165/200	1.2	60 813 893



## PANOS evolution L

|...| Shared properties PANOS evolution LOW

- “Stable White” LED luminaires, colour temperature: 3000 K (LED830: warm white) or 4000 K (LED840: neutral white)
- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Complete model comprises luminaire and ballast unit
- 50,000 h service life at 80 % luminous flux
- Colour rendering index: Ra > 80
- Installed using PC mounting ring (glass fibre-reinforced) with anti-slip spring clips for tool-free fitting in ceiling recess for ceilings of thickness 1–40 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- 3-pole plug-in terminal, through-wiring possible
- Mains voltage: 230 V / 50/60 Hz
- Can be used with 220 V DC group battery
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

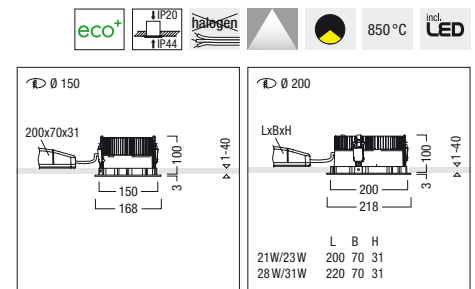
### PANOS evolution E150/E200 LF LED with faceted optic



- |...|
- Ideal where ceiling space is limited: recessed depth just 100 mm
- Faceted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19 when fitted with anti-glare ring (see attachments)
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Models incorporating 3-hour emergency lighting are available on request

	RD/RØ	kg	Order no.
<b>PANOS evolution E150 LF LED, white circular trim</b>			
13 W LED840	100/150	1.2	60 814 630
14 W LED830	100/150	1.2	60 814 626
21 W LED840	100/150	1.2	60 814 646
23 W LED830	100/150	1.2	60 814 642
<b>PANOS evolution E200 LF LED, white circular trim</b>			
21 W LED840	100/200	1.5	60 814 662
23 W LED830	100/200	1.5	60 814 658
28 W LED840	100/200	1.5	60 814 678
31 W LED830	100/200	1.5	60 814 674

For surface-mount housing for the PANOS evolution E150 L, see the attachments and accessories.

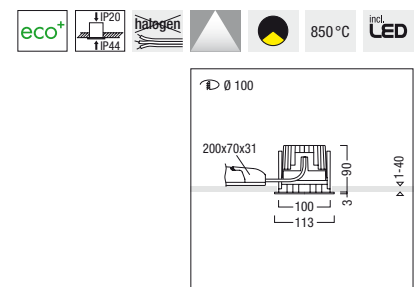


### PANOS evolution E100 LG LED with smooth optic



- |...|
- Designed for use where space is limited in ceiling: recessed depth only 100 mm (subject to restrictions: see installation instructions)
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19
- 30° shielding angle
- High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
- Luminaire luminous flux up to 960 lm (dependent on luminaire type)

	RD/RØ	kg	Order no.
<b>PANOS evolution E100 LG LED, white circular trim</b>			
13 W LED840	100/100	0.5	60 814 617
15 W LED830	100/100	0.5	60 814 614





PANOS evolution E150/E200 LG LED with smooth optic



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19 when fitted with anti-glare ring (see attachments)
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - Models incorporating 3-hour emergency lighting are available on request

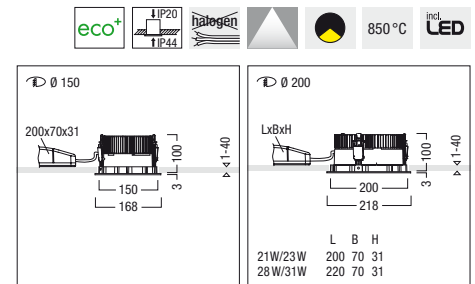
PANOS evolution E150 LG LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	100/150	1.2	60 814 631
14 W LED830	100/150	1.2	60 814 627
21 W LED840	100/150	1.2	60 814 647
23 W LED830	100/150	1.2	60 814 643

PANOS evolution E200 LG LED, white circular trim

21 W LED840	100/200	1.5	60 814 663
23 W LED830	100/200	1.5	60 814 659
28 W LED840	100/200	1.5	60 814 679
31 W LED830	100/200	1.5	60 814 675

For surface-mount housing for the PANOS evolution E150 L, see the attachments and accessories.



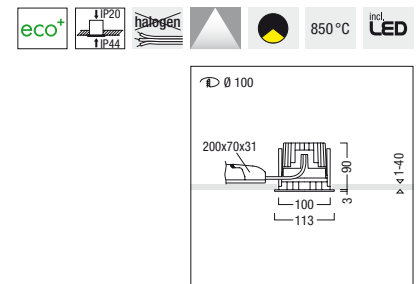
PANOS evolution E100 LM LED with matt optic



- [...]
  - Designed for use where space is limited in ceiling: recessed depth only 100 mm (subject to restrictions: see installation instructions)
  - Matt reflector with smooth aluminium-look finish
  - 30° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)

PANOS evolution E100 LM LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	100/100	0.5	60 814 618
15 W LED830	100/100	0.5	60 814 615



PANOS evolution E150/E200 LM LED with matt optic



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - Matt reflector with smooth aluminium-look finish
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - Models incorporating 3-hour emergency lighting are available on request

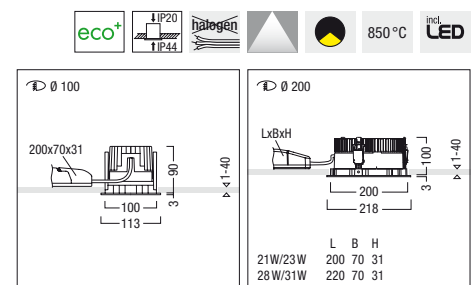
PANOS evolution E150 LM LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	100/150	1.2	60 814 632
14 W LED830	100/150	1.2	60 814 628
21 W LED840	100/150	1.2	60 814 648
23 W LED830	100/150	1.2	60 814 644

PANOS evolution E200 LM LED, white circular trim

21 W LED840	100/200	1.5	60 814 664
23 W LED830	100/200	1.5	60 814 660
28 W LED840	100/200	1.5	60 814 680
31 W LED830	100/200	1.5	60 814 676

For surface-mount housing for the PANOS evolution E150 L, see the attachments and accessories.



## PANOS evolution L

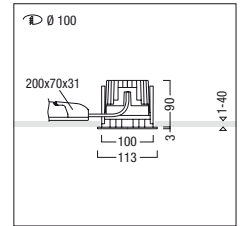
### PANOS evolution E100 LL LED with coated optic



- [...]
  - Designed for use where space is limited in ceiling: recessed depth only 100 mm (subject to restrictions: see installation instructions)
  - White reflector, smooth
  - 30° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)

#### PANOS evolution E100 LL LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	100/100	0.5	60 814 619
15 W LED830	100/100	0.5	60 814 616



### PANOS evolution E150/E200 LL LE with coated optic



- [...]
  - Ideal where ceiling space is limited: recessed depth just 100 mm
  - White reflector, smooth
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - Models incorporating 3-hour emergency lighting are available on request

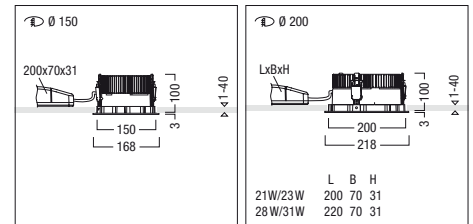
#### PANOS evolution E150 LL LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	100/150	1.2	60 814 633
14 W LED830	100/150	1.2	60 814 629
21 W LED840	100/150	1.2	60 814 649
23 W LED830	100/150	1.2	60 814 645

#### PANOS evolution E200 LL LED, white circular trim

21 W LED840	100/200	1.5	60 814 665
23 W LED830	100/200	1.5	60 814 661
28 W LED840	100/200	1.5	60 814 681
31 W LED830	100/200	1.5	60 814 677

For surface-mount housing for the PANOS evolution E150 L, see the attachments and accessories.



[...] Shared properties PANOS evolution HIGH

- “Stable White” LED luminaires, colour temperature: 3000 K (LED830: warm white) or 4000 K (LED840: neutral white)
- High-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism
- Reflector/trim unit made of high-quality, UV-resistant polycarbonate
- White trim
- Complete model comprises luminaire and ballast unit
- 50,000 h service life at 80 % luminous flux
- Colour rendering index: Ra > 80
- Installed using PC mounting ring (glass fibre-reinforced) with anti-slip spring clips for tool-free fitting in ceiling recess for ceilings of thickness 1–40 mm
- Simple twist-and-lock mechanism for quick tool-free fitting of luminaire unit
- Luminaire pre-wired using halogen-free leads
- 3-pole plug-in terminal, through-wiring possible
- Mains voltage: 230 V / 50/60 Hz
- Can be used with 220 V DC group battery

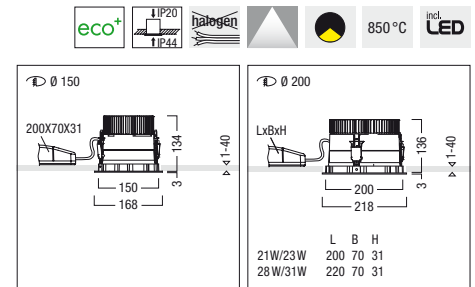
**PANOS evolution E150/E200 HF LED with faceted optic**



- [...]
- Faceted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Minimum luminaire recess depth 140 mm
- Models incorporating 3-hour emergency lighting are available on request
- Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

	RD/RØ	kg	Order no.
<b>PANOS evolution E150 HF LED, white circular trim</b>			
13 W LED840	140/150	1.2	60 814 638
14 W LED830	140/150	1.2	60 814 634
21 W LED840	140/150	1.2	60 814 654
23 W LED830	140/150	1.2	60 814 650
<b>PANOS evolution E200 HF LED, white circular trim</b>			
21 W LED840	140/200	1.6	60 814 670
23 W LED830	140/200	1.6	60 814 666
28 W LED840	140/200	1.6	60 814 686
31 W LED830	140/200	1.6	60 814 682

For surface-mount housing for the PANOS evolution E200 H, see the attachments and accessories.

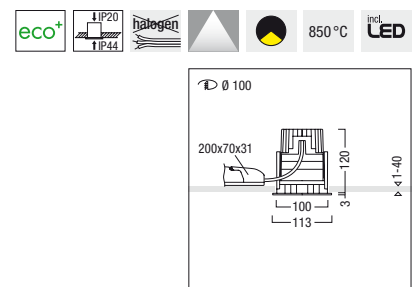


**PANOS evolution E100 HG LED with smooth optic**



- [...]
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19
- 45° shielding angle
- High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
- Luminaire luminous flux up to 960 lm (dependent on luminaire type)
- Minimum luminaire recess depth 130 mm

	RD/RØ	kg	Order no.
<b>PANOS evolution E100 HG LED, white circular trim</b>			
13 W LED840	130/100	0.5	60 814 623
15 W LED830	130/100	0.5	60 814 620



## PANOS evolution H

### PANOS evolution E150/E200 HG LED with smooth optic



- [...]
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Minimum luminaire recess depth 140 mm
- Models incorporating 3-hour emergency lighting are available on request
- Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

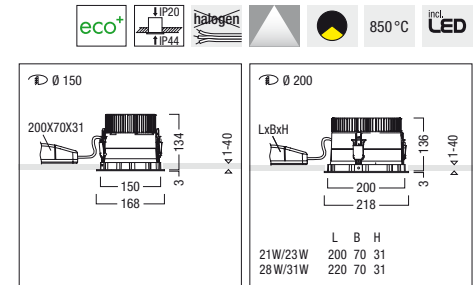
#### PANOS evolution E150 HG LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	140/150	1.2	60 814 639
14 W LED830	140/150	1.2	60 814 635
21 W LED840	140/150	1.2	60 814 655
23 W LED830	140/150	1.2	60 814 651

#### PANOS evolution E200 HG LED, white circular trim

21 W LED840	140/200	1.6	60 814 671
23 W LED830	140/200	1.6	60 814 667
28 W LED840	140/200	1.6	60 814 687
31 W LED830	140/200	1.6	60 814 683

For surface-mount housing for the PANOS evolution E200 H, see the attachments and accessories.



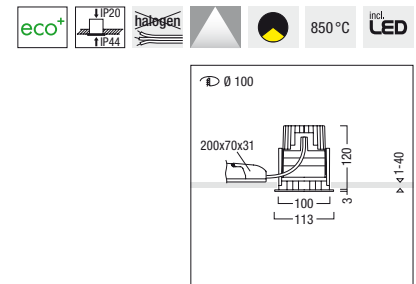
### PANOS evolution E100 HM LED with matt optic



- [...]
- Matt reflector with smooth aluminium-look finish
- 45° shielding angle
- High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
- Luminaire luminous flux up to 960 lm (dependent on luminaire type)
- Minimum luminaire recess depth 130 mm
- Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

#### PANOS evolution E100 HM LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	130/100	0.5	60 814 624
15 W LED830	130/100	0.5	60 814 621



### PANOS evolution E150/E200 HM LED with matt optic



- [...]
- Matt reflector with smooth aluminium-look finish
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Minimum luminaire recess depth 140 mm
- Models incorporating 3-hour emergency lighting are available on request
- Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

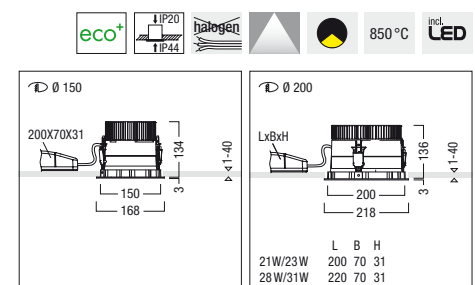
#### PANOS evolution E150 HM LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	140/150	1.2	60 814 640
14 W LED830	140/150	1.2	60 814 636
21 W LED840	140/150	1.2	60 814 656
23 W LED830	140/150	1.2	60 814 652

#### PANOS evolution E200 HM LED, white circular trim

21 W LED840	140/200	1.6	60 814 672
23 W LED830	140/200	1.6	60 814 668
28 W LED840	140/200	1.6	60 814 688
31 W LED830	140/200	1.6	60 814 684

For surface-mount housing for the PANOS evolution E200 H, see the attachments and accessories.



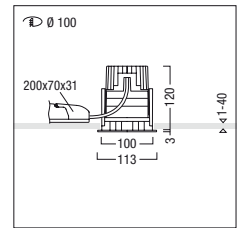
PANOS evolution E100 HL LED with coated optic



- [...]
  - White reflector, smooth
  - 45° shielding angle
  - High-efficiency LED lighting chamber is integrated in optimised, passive thermal management system; made of diecast aluminium
  - Luminaire luminous flux up to 960 lm (dependent on luminaire type)
  - Minimum luminaire recess depth 130 mm
  - Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

PANOS evolution E100 HL LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	130/100	0.5	60 814 625
15 W LED830	130/100	0.5	60 814 622



PANOS evolution E150/E200 HL LED with coated optic



- [...]
  - White reflector, smooth
  - High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
  - Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
  - Minimum luminaire recess depth 140 mm
  - Models incorporating 3-hour emergency lighting are available on request
  - Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency

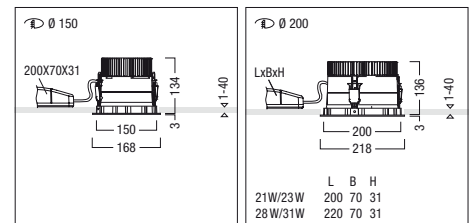
PANOS evolution E150 HL LED, white circular trim

	RD/RØ	kg	Order no.
13 W LED840	140/150	1.2	60 814 641
14 W LED830	140/150	1.2	60 814 637
21 W LED840	140/150	1.2	60 814 657
23 W LED830	140/150	1.2	60 814 653

PANOS evolution E200 HL LED, white circular trim

21 W LED840	140/200	1.6	60 814 673
23 W LED830	140/200	1.6	60 814 669
28 W LED840	140/200	1.6	60 814 689
31 W LED830	140/200	1.6	60 814 685

For surface-mount housing for the PANOS evolution E200 H, see the attachments and accessories.



PANOS infinity / evolution E100 – E200 attachments / accessories

Antiglare ring

Order no.



- For improved glare control with PANOS infinity LF or PANOS infinity LG recessed luminaires
- UGR < 19 for office applications in compliance with EN12464
- Also suitable for use with flush-fitting ceiling luminaires

Anti-glare ring

PANOS infinity / evolution, ID 150 mm	60 800 647
PANOS infinity / evolution, ID 200 mm	60 800 648



IP54 attachment, transparent

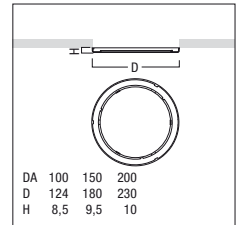
Order no.



- Designed to achieve IP54 degree of protection with PANOS infinity recessed luminaires in closed ceilings
- Please note: not suitable for luminaire models that fit flush in the ceiling

Transparent attachment (IP54)

PANOS infinity / evolution, ID 100 mm	60 800 767
PANOS infinity / evolution, ID 150 mm	60 800 645
PANOS infinity / evolution, ID 200 mm	60 800 646



Decorative glass FLUX

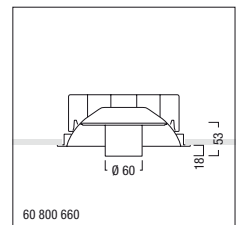
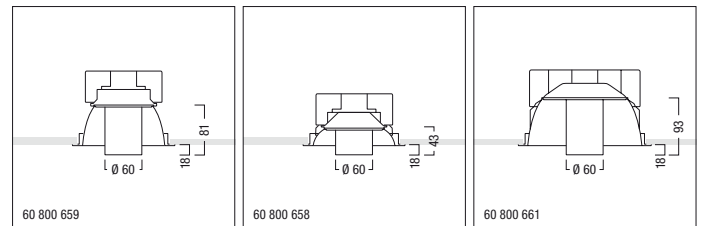
Order no.



- High-quality decorative acrylic glass cylinder, transparent
- Quick to fit using reflector twist-and-lock fastening
- Also suitable for use with flush-fitting ceiling luminaires

Decorative attachment

PANOS infinity / evolution H, ID 150 mm	60 800 659
PANOS infinity / evolution H, ID 200 mm	60 800 661
PANOS infinity / evolution L, ID 100 mm	60 800 770
PANOS infinity / evolution L, ID 150 mm	60 800 658
PANOS infinity / evolution L, ID 200 mm	60 800 660



Decorative ring

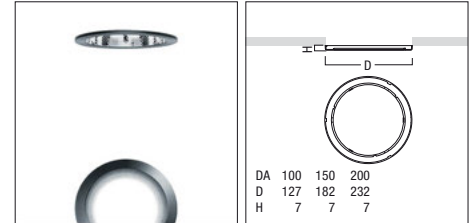
Order no.



- Aluminium decorative attachment ring in choice of finishes: brushed, anthracite or silver-anodised
- Supply includes holding ring for attachment
- Quick installation using “twist and lock” fixing method

Decorative ring

PANOS infinity / evolution, ID 100 mm, in anodized anthracite finish	60 800 769
PANOS infinity / evolution, ID 100 mm, in silver anodized finish	60 800 768
PANOS infinity / evolution, ID 150 mm, anthracite anodised finish	60 800 656
PANOS infinity / evolution, ID 150 mm, silver anodised finish	60 800 630
PANOS infinity / evolution, ID 200 mm, anthracite anodised finish	60 800 657
PANOS infinity / evolution, ID 200 mm, silver anodised finish	60 800 631



Decorative glass attachment, external matt finish

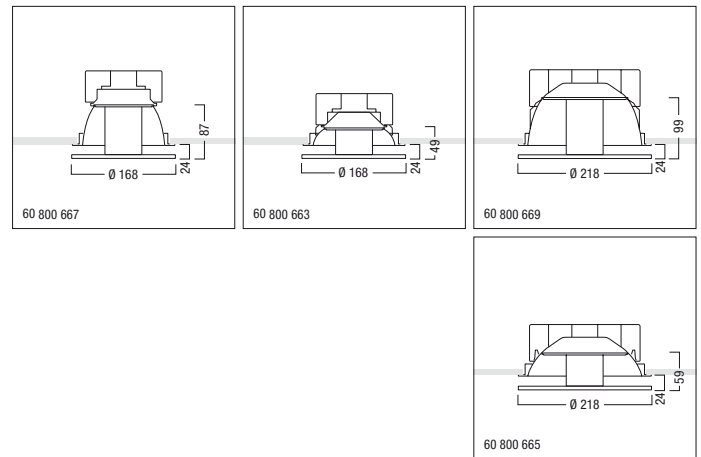
Order no.



- Decorative glass cylinder made of high-quality transparent acrylic glass topped with circular disk and in external matt finish
- Quick to fit using reflector twist-and-lock fastening
- Also suitable for use with flush-fitting ceiling luminaires

Decorative glass attachment

PANOS infinity / evolution H, ID 150 mm, frosted exterior	60 800 667
PANOS infinity / evolution H, ID 200 mm, frosted exterior	60 800 669
PANOS infinity / evolution L, ID 150 mm, frosted exterior	60 800 663
PANOS infinity / evolution L, ID 200 mm, frosted exterior	60 800 665
PANOS infinity / evolution L, ID 100 mm, external matt finish	60 800 771



Planar ring

Order no.

- For flush-fitting PANOS infinity recessed luminaires (flush-fitting ceiling version) in plaster ceilings or Armstrong ceiling elements
- Perforated polycarbonate (glass fibre-reinforced) with edge for installation in plaster ceilings
- Perforated aluminium with plastering edge for Armstrong ceilings

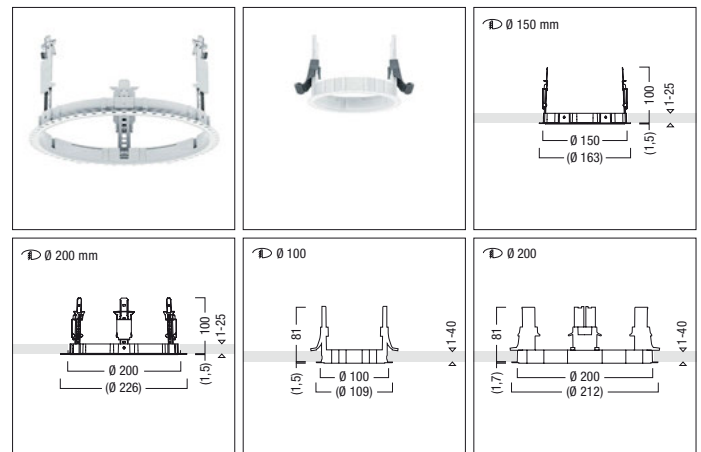
Planar ring (polycarbonate) only for luminaire

PANOS infinity, ID 100 mm	60 800 765
PANOS infinity, ID 150 mm	60 800 774
PANOS infinity, ID 200 mm	60 800 775

Planar ring (aluminium) only for luminaire

PANOS infinity, ID 150 mm	60 800 622
PANOS infinity, ID 200 mm	60 800 623

60 800 622: not suitable for PANOS infinity E150 WW DB (flush-fitted ceiling model).



Surface-mount housing for PANOS infinity E150 L

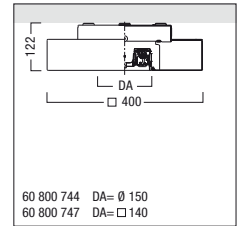


- Low-profile housing for surface-mounting on ceiling for better integration in the architectural surroundings
- Sheet steel 2-piece housing in white powder-coated finish
- Top housing section (including electrical connection) fits to ceiling
- Bottom section of housing for accommodating PANOS infinity E150 LF / LG / LM / LL recessed luminaires (flush-fitted ceiling model); please order luminaire separately
- Bottom section of housing is snap-fitted into top section
- Electrical supply: 5-pin terminal block with plug-in connection; lead included for connecting to ballast unit
- Prepared for looping-through
- Surface-mount housing is also suitable for emergency lighting models (NA3)
- Planar ring for mounting flush-fitted ceiling luminaire is already prefitted in the surface-mount housing
- The PANOS infinity recessed luminaires achieve IP20 degree of protection when used in combination with the surface-mount housing

Surface-mount housing for PANOS infinity E150 LF / LG / LM / LL (flush-fitted ceiling model)

	L/W/H	kg	Order no.
PANOS infinity, ID 150 mm	400/400/122	3.7	60 800 744

Note on illustration: shows surface-mount housing fitted with luminaire.



Surface-mount housing for PANOS infinity / evolution E200 H

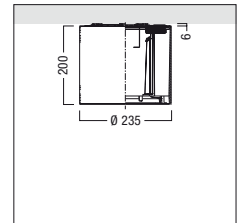


- Cylindrical surface-mount housing in classic design
- Die-cast aluminium 2-piece housing in white painted finish
- Top housing section (including electrical connection) fits to ceiling
- Bottom section of housing for accommodating PANOS infinity E200 HF / HG / HM / HL recessed luminaires (model with white trim); please order luminaire separately
- Bottom section of housing is fixed to top section by twist-and-lock catch
- Electrical supply: 5-pole plug-in terminal with connecting cable to ballast unit
- Prepared for looping-through
- The PANOS infinity / evolution recessed luminaires achieve IP20 degree of protection when used in combination with the surface-mount housing
- Pendant suspension available on request

Surface-mount housing for PANOS infinity E200 HF / HG / HM / HL (white trim model)

	L/W/H	kg	Order no.
PANOS infinity / evolution, ID 200 mm		2.1	60 800 745

Note on illustration: shows surface-mount housing fitted with luminaire.





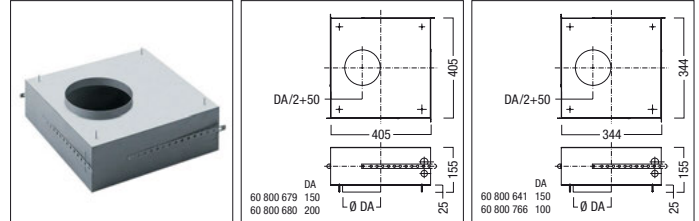
**Casting surround**

- For recess-mounting PANOS infinity recess luminaires in concrete ceilings
- Compact sheet-steel housing
- Stainless-steel housing surround and stabilizing pins
- Housing can be connected to the iron reinforcement and shuttering using special fixing clips
- Can be fitted in exposed concrete ceilings
- Use of concrete casting surround subject to certain restrictions, please see table in installation instructions
- “Tunable White” luminaires only together with concrete casting surround 60 800 679 or 60 800 680

**Concrete casting surround**

Concrete casting surround,	L/W/H	kg	Order no.
ID = 100 mm, H= 155 mm	344/344/155	3.3	60 800 766
Concrete casting surround,			
ID = 150 mm, H= 155 mm	344/344/155	3.3	60 800 641
Concrete casting surround,			
ID = 150 mm, H= 155 mm	344/344/155	3.3	60 800 679
Concrete casting surround,			
ID = 200 mm, H= 155 mm	405/405/155	4.4	60 800 680

60 800 679/680: can also be used for emergency lighting models (NA3).  
 60 800 641: can only be used for standard luminaires E150.

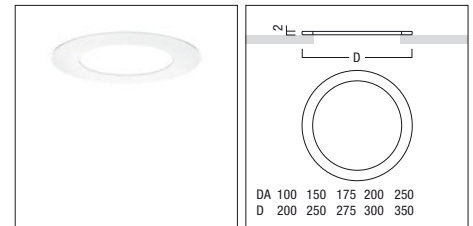


**Ceiling reinforcing ring**

- Mounting kit for thin ceilings or soft ceiling materials
- For increasing or reinforcing supporting area when fixing luminaire
- Material: plastic

**Accessory**

Ceiling reinforcement ring cutout	Order no.
100 mm	60 800 313
150 mm	60 800 314
200 mm	60 800 316



**Retrofit rings**

- For reducing recessed diameters in suspended ceilings
- Material: sheet steel, painted in white
- Installation: using spring clips, ceilings up to 25 mm thick

**Retrofit ring**

Retrofit ring	Order no.
from ID 170 mm to ID 150 mm	60 800 734
from ID 190 mm to ID 150 mm	60 800 735
from ID 220 mm to ID 200 mm	60 800 736
from ID 230 mm to ID 200 mm	60 800 737



## PANOS infinity Q L

[...] Shared properties PANOS infinity Q LOW

- Ideal where ceiling space is limited: recessed depth just 100 mm
- “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
- High-quality reflector unit fastened by catch to modular LED lighting chamber
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim is a single unit made of high-quality, UV-resistant polycarbonate
- White trim, detachable
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 80 % luminous flux
- “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
- “Stable White” colour rendering index: Ra > 90
- “Tunable White” colour rendering index: Ra 90
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings with thickness 1–25 mm
- EASY-CLEAN catch ensures quick installation of luminaire unit without tools
- Luminaire pre-wired using halogen-free leads
- 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
- Flush-fitting ceiling model: please order seating surround (planar surround) separately (see accessories)
- “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

### PANOS infinity Q140/Q190 LF LED with faceted optic



- [...]
- Faceted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19 when used with additional glare-control surround (see attachments)



EL/EB/ET kg Order no.

#### PANOS infinity Q140 LF LED, white trim

14 W LED930 dimmable Dali only	140/140/100	1.4	60 814 826
14 W LED940 dimmable Dali only	140/140/100	1.4	60 814 830
21 W LED930 dimmable Dali only	140/140/100	1.4	60 814 858
21 W LED940 dimmable Dali only	140/140/100	1.4	60 814 862
22 W LED927-65 dimmable Dali	140/140/100	1.3	60 813 860

#### PANOS infinity Q140 LF LED, flush in ceiling

14 W LED930 dimmable Dali only	140/140/100	1.1	60 814 842
14 W LED940 dimmable Dali only	140/140/100	1.1	60 814 846
21 W LED930 dimmable Dali only	140/140/100	1.1	60 814 874
21 W LED940 dimmable Dali only	140/140/100	1.1	60 814 878
22 W LED927-65 dimmable Dali	140/140/100	1.0	60 813 868

#### PANOS infinity Q190 LF LED, white trim

21 W LED930 dimmable Dali only	190/190/100	1.6	60 814 890
21 W LED940 dimmable Dali only	190/190/100	1.6	60 814 894
29 W LED930 dimmable Dali only	190/190/100	1.6	60 814 922
29 W LED940 dimmable Dali only	190/190/100	1.6	60 814 926
32 W LED927-65 dimmable Dali	190/190/120	1.5	60 813 876

#### PANOS infinity Q190 LF LED, flush in ceiling

21 W LED930 dimmable Dali only	190/190/100	1.3	60 814 906
21 W LED940 dimmable Dali only	190/190/100	1.3	60 814 910
29 W LED930 dimmable Dali only	190/190/100	1.3	60 814 938
29 W LED940 dimmable Dali only	190/190/100	1.3	60 814 942
32 W LED927-65 dimmable Dali	190/190/120	1.2	60 813 884

See Attachments and Accessories for surface-mount housing for PANOS infinity Q140 L.



□ 190	□ 190	□ 140																																																															
<p>L1xB1xH1 L2xB2xH2 □ 190 □ 210 4 p &lt; 1-25</p> <table border="1"> <thead> <tr> <th></th> <th>L1</th> <th>B1</th> <th>H1</th> <th>L2</th> <th>B2</th> <th>H2</th> </tr> </thead> <tbody> <tr> <td>Stable White</td> <td>200</td> <td>85</td> <td>31</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tunable White</td> <td>150</td> <td>80</td> <td>34</td> <td>156</td> <td>50</td> <td>21</td> </tr> </tbody> </table>		L1	B1	H1	L2	B2	H2	Stable White	200	85	31	-	-	-	Tunable White	150	80	34	156	50	21	<p>L1xB1xH1 L2xB2xH2 □ 190 □ 208 (2) 100 p &lt; 1-25</p> <table border="1"> <thead> <tr> <th></th> <th>L1</th> <th>B1</th> <th>H1</th> <th>L2</th> <th>B2</th> <th>H2</th> </tr> </thead> <tbody> <tr> <td>Stable White</td> <td>200</td> <td>85</td> <td>31</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tunable White</td> <td>150</td> <td>80</td> <td>34</td> <td>156</td> <td>50</td> <td>21</td> </tr> </tbody> </table>		L1	B1	H1	L2	B2	H2	Stable White	200	85	31	-	-	-	Tunable White	150	80	34	156	50	21	<p>L1xB1xH1 L2xB2xH2 □ 140 □ 158 (2) 100 p &lt; 1-25</p> <table border="1"> <thead> <tr> <th></th> <th>L1</th> <th>B1</th> <th>H1</th> <th>L2</th> <th>B2</th> <th>H2</th> </tr> </thead> <tbody> <tr> <td>Stable White</td> <td>200</td> <td>85</td> <td>31</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Tunable White</td> <td>150</td> <td>80</td> <td>34</td> <td>156</td> <td>50</td> <td>21</td> </tr> </tbody> </table>		L1	B1	H1	L2	B2	H2	Stable White	200	85	31	-	-	-	Tunable White	150	80	34	156	50	21
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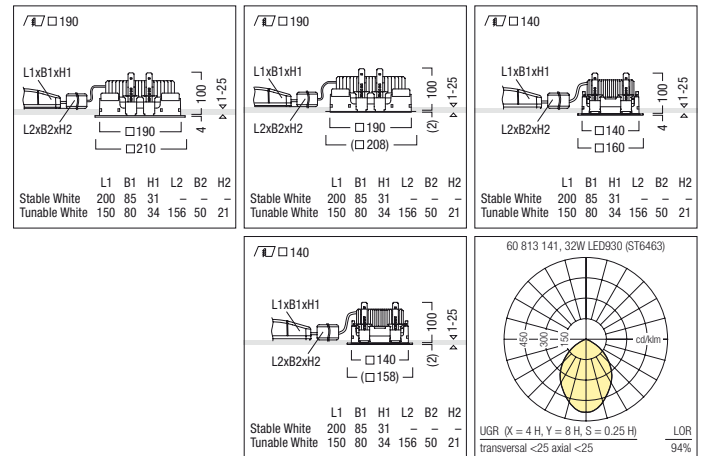
PANOS infinity Q140/Q190 LG LED with smooth optic



- [...]
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19 when used with additional glare-control surround (see attachments)

	EL/EB/ET	kg	Order no.
<b>PANOS infinity Q140 LG LED, white trim</b>			
14 W LED930 dimmable Dali only	140/140/100	1.4	60 814 827
14 W LED940 dimmable Dali only	140/140/100	1.4	60 814 831
21 W LED930 dimmable Dali only	140/140/100	1.4	60 814 859
21 W LED940 dimmable Dali only	140/140/100	1.4	60 814 863
22 W LED927-65 dimmable Dali	140/140/100	1.3	60 813 861
<b>PANOS infinity Q140 LG LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	140/140/100	1.1	60 814 843
14 W LED940 dimmable Dali only	140/140/100	1.1	60 814 847
21 W LED930 dimmable Dali only	140/140/100	1.1	60 814 875
21 W LED940 dimmable Dali only	140/140/100	1.1	60 814 879
22 W LED927-65 dimmable Dali	140/140/100	1.0	60 813 869
<b>PANOS infinity Q190 LG LED, white trim</b>			
21 W LED930 dimmable Dali only	190/190/100	1.6	60 814 891
21 W LED940 dimmable Dali only	190/190/100	1.6	60 814 895
29 W LED930 dimmable Dali only	190/190/100	1.6	60 814 923
29 W LED940 dimmable Dali only	190/190/100	1.6	60 814 927
32 W LED927-65 dimmable Dali	190/190/120	1.5	60 813 877
<b>PANOS infinity Q190 LG LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	190/190/100	1.3	60 814 907
21 W LED940 dimmable Dali only	190/190/100	1.3	60 814 911
29 W LED930 dimmable Dali only	190/190/100	1.3	60 814 939
29 W LED940 dimmable Dali only	190/190/100	1.3	60 814 943
32 W LED927-65 dimmable Dali	190/190/120	1.2	60 813 885

See Attachments and Accessories for surface-mount housing for PANOS infinity Q140 L.



PANOS infinity Q L

PANOS infinity Q140/Q190 LM LED with matt optic



- [...]
  - Matt reflector with smooth aluminium-look finish



EL/EB/ET kg Order no.

PANOS infinity Q140 LM LED, white trim

14 W LED930 dimmable Dali only	140/140/100	1.4	60 814 828
14 W LED940 dimmable Dali only	140/140/100	1.4	60 814 832
21 W LED930 dimmable Dali only	140/140/100	1.4	60 814 860
21 W LED940 dimmable Dali only	140/140/100	1.4	60 814 864
22 W LED927-65 dimmable Dali	140/140/100	1.3	60 813 862

PANOS infinity Q140 LM LED, flush in ceiling

14 W LED930 dimmable Dali only	140/140/100	1.1	60 814 844
14 W LED940 dimmable Dali only	140/140/100	1.1	60 814 848
21 W LED930 dimmable Dali only	140/140/100	1.1	60 814 876
21 W LED940 dimmable Dali only	140/140/100	1.1	60 814 880
22 W LED927-65 dimmable Dali	140/140/100	1.0	60 813 870

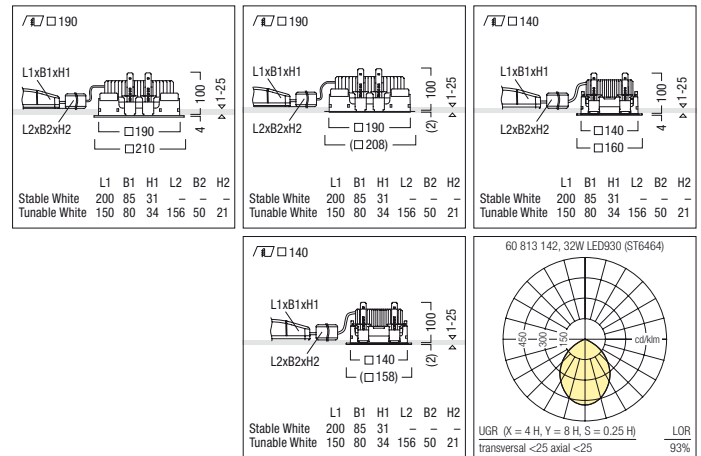
PANOS infinity Q190 LM LED, white trim

21 W LED930 dimmable Dali only	190/190/100	1.6	60 814 892
21 W LED940 dimmable Dali only	190/190/100	1.6	60 814 896
29 W LED930 dimmable Dali only	190/190/100	1.6	60 814 924
29 W LED940 dimmable Dali only	190/190/100	1.6	60 814 928
32 W LED927-65 dimmable Dali	190/190/120	1.5	60 813 878

PANOS infinity Q190 LM LED, flush in ceiling

21 W LED930 dimmable Dali only	190/190/100	1.3	60 814 908
21 W LED940 dimmable Dali only	190/190/100	1.3	60 814 912
29 W LED930 dimmable Dali only	190/190/100	1.3	60 814 940
29 W LED940 dimmable Dali only	190/190/100	1.3	60 814 944
32 W LED927-65 dimmable Dali	190/190/120	1.2	60 813 886

See Attachments and Accessories for surface-mount housing for PANOS infinity Q140 L.



PANOS infinity Q140/Q190 LL LED with painted optic

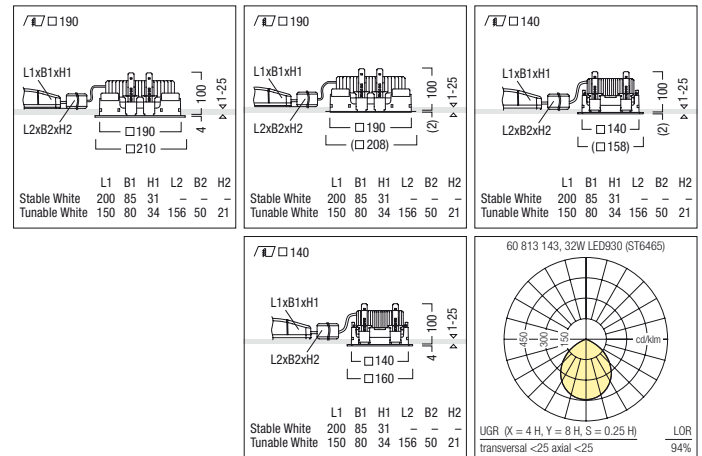


- [...] |
- White reflector, smooth



	EL/EB/ET	kg	Order no.
<b>PANOS infinity Q140 LL LED, white trim</b>			
14 W LED930 dimmable Dali only	140/140/100	1.4	60 814 829
14 W LED940 dimmable Dali only	140/140/100	1.4	60 814 833
21 W LED930 dimmable Dali only	140/140/100	1.4	60 814 861
21 W LED940 dimmable Dali only	140/140/100	1.4	60 814 865
22 W LED927-65 dimmable Dali	140/140/100	1.3	60 813 863
<b>PANOS infinity Q140 LL LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	140/140/100	1.1	60 814 845
14 W LED940 dimmable Dali only	140/140/100	1.1	60 814 849
21 W LED930 dimmable Dali only	140/140/100	1.1	60 814 877
21 W LED940 dimmable Dali only	140/140/100	1.1	60 814 881
22 W LED927-65 dimmable Dali	140/140/100	1.0	60 813 871
<b>PANOS infinity Q190 LL LED, white trim</b>			
21 W LED930 dimmable Dali only	190/190/100	1.6	60 814 893
21 W LED940 dimmable Dali only	190/190/100	1.6	60 814 897
29 W LED930 dimmable Dali only	190/190/100	1.6	60 814 925
29 W LED940 dimmable Dali only	190/190/100	1.6	60 814 929
32 W LED927-65 dimmable Dali	190/190/120	1.5	60 813 879
<b>PANOS infinity Q190 LL LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	190/190/100	1.3	60 814 909
21 W LED940 dimmable Dali only	190/190/100	1.3	60 814 913
29 W LED930 dimmable Dali only	190/190/100	1.3	60 814 941
29 W LED940 dimmable Dali only	190/190/100	1.3	60 814 945
32 W LED927-65 dimmable Dali	190/190/120	1.2	60 813 887

See Attachments and Accessories for surface-mount housing for PANOS infinity Q140 L.



## PANOS infinity Q H

[...] Shared properties PANOS infinity Q HIGH

- “Stable White” LED luminaires, stabilised colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white) and “Tunable White”, dynamic colour-temperature variation: 2700–6500 K (LED927–65)
- High-quality reflector unit fastened by catch to modular LED lighting chamber
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim is a single unit made of high-quality, UV-resistant polycarbonate
- White trim, detachable
- Complete model comprises luminaire and ballast unit
- With controllable ballast (Dali), separate unit
- Service life: 50,000 h at 80 % luminous flux
- “Stable White” luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- “Tunable White” luminaire luminous flux: > 900 lm and > 1400 lm at 2700 K (depending on luminaire type)
- “Stable White” colour rendering index: Ra > 90
- “Tunable White” colour rendering index: Ra 90
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings with thickness 1–25 mm
- EASY-CLEAN catch ensures quick installation of luminaire unit without tools
- Luminaire pre-wired using halogen-free leads
- 5-pole terminal with plug-in connection; loop-in/loop-out only possible for “Stable White”
- Minimum luminaire recess depth 140 mm
- Flush-fitting ceiling model: please order seating surround (planar surround) separately (see accessories)
- “Tunable White” model can only be controlled via EMOTION, CIRCLE TUNE or LITENET (DT8 2010)
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

### PANOS infinity Q140/Q190 HF LED with faceted optic



- [...]
- Faceted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19



EL/EB/ET kg Order no.

#### PANOS infinity Q140 HF LED, white trim

14 W LED930 dimmable Dali only	140/140/140	1.5	60 814 834
14 W LED940 dimmable Dali only	140/140/140	1.5	60 814 838
21 W LED930 dimmable Dali only	140/140/140	1.5	60 814 866
21 W LED940 dimmable Dali only	140/140/140	1.5	60 814 870
22 W LED927-65 dimmable Dali	140/140/140	1.4	60 813 864

#### PANOS infinity Q140 HF LED, flush in ceiling

14 W LED930 dimmable Dali only	140/140/140	1.2	60 814 850
14 W LED940 dimmable Dali only	140/140/140	1.2	60 814 854
21 W LED930 dimmable Dali only	140/140/140	1.2	60 814 882
21 W LED940 dimmable Dali only	140/140/140	1.2	60 814 886
22 W LED927-65 dimmable Dali	140/140/140	1.1	60 813 872

#### PANOS infinity Q190 HF LED, white trim

21 W LED930 dimmable Dali only	190/190/140	1.8	60 814 898
21 W LED940 dimmable Dali only	190/190/140	1.8	60 814 902
29 W LED930 dimmable Dali only	190/190/140	1.8	60 814 930
29 W LED940 dimmable Dali only	190/190/140	1.8	60 814 934
32 W LED927-65 dimmable Dali	190/190/160	1.7	60 813 880

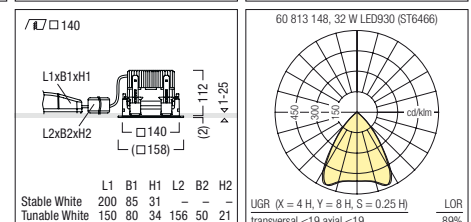
#### PANOS infinity Q190 HF LED, flush in ceiling

21 W LED930 dimmable Dali only	190/190/140	1.5	60 814 914
21 W LED940 dimmable Dali only	190/190/140	1.5	60 814 918
29 W LED930 dimmable Dali only	190/190/140	1.5	60 814 946
29 W LED940 dimmable Dali only	190/190/140	1.5	60 814 950
32 W LED927-65 dimmable Dali	190/190/160	1.4	60 813 888

For surface-mount housing for the PANOS infinity Q190 H, see the attachments and accessories.



□ 190	□ 190	□ 140																																																															
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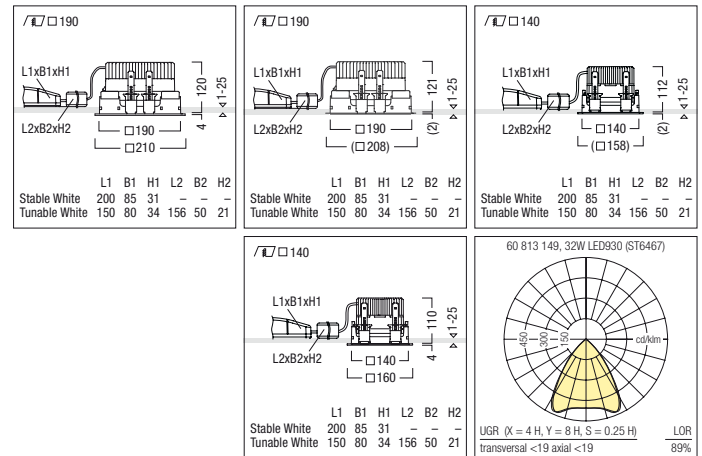
PANOS infinity Q140/Q190 HG LED with smooth optic



- [...]
  - Smooth reflector; highly reflective aluminised finish for zero iridescence
  - EN12464 compliant for office applications with UGR < 19

	EL/EB/ET	kg	Order no.
<b>PANOS infinity Q140 HG LED, white trim</b>			
14 W LED930 dimmable Dali only	140/140/140	1.5	60 814 835
14 W LED940 dimmable Dali only	140/140/140	1.5	60 814 839
21 W LED930 dimmable Dali only	140/140/140	1.5	60 814 867
21 W LED940 dimmable Dali only	140/140/140	1.5	60 814 871
22 W LED927-65 dimmable Dali	140/140/140	1.4	60 813 865
<b>PANOS infinity Q140 HG LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	140/140/140	1.2	60 814 851
14 W LED940 dimmable Dali only	140/140/140	1.2	60 814 855
21 W LED930 dimmable Dali only	140/140/140	1.2	60 814 883
21 W LED940 dimmable Dali only	140/140/140	1.2	60 814 887
22 W LED927-65 dimmable Dali	140/140/140	1.1	60 813 873
<b>PANOS infinity Q190 HG LED, white trim</b>			
21 W LED930 dimmable Dali only	190/190/140	1.8	60 814 899
21 W LED940 dimmable Dali only	190/190/140	1.8	60 814 903
29 W LED930 dimmable Dali only	190/190/140	1.8	60 814 931
29 W LED940 dimmable Dali only	190/190/140	1.8	60 814 935
32 W LED927-65 dimmable Dali	190/190/160	1.7	60 813 881
<b>PANOS infinity Q190 HG LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	190/190/140	1.5	60 814 915
21 W LED940 dimmable Dali only	190/190/140	1.5	60 814 919
29 W LED930 dimmable Dali only	190/190/140	1.5	60 814 947
29 W LED940 dimmable Dali only	190/190/140	1.5	60 814 951
32 W LED927-65 dimmable Dali	190/190/160	1.4	60 813 889

For surface-mount housing for the PANOS infinity Q190 H, see the attachments and accessories.



# PANOS infinity Q H

## PANOS infinity Q140/Q190 HM LED with matt optic



- [...]
  - Matt reflector with smooth aluminium-look finish

EL/EB/ET      kg      Order no.

### PANOS infinity Q140 HM LED, white trim

14 W LED930 dimmable Dali only	140/140/140	1.5	60 814 836
14 W LED940 dimmable Dali only	140/140/140	1.5	60 814 840
21 W LED930 dimmable Dali only	140/140/140	1.5	60 814 868
21 W LED940 dimmable Dali only	140/140/140	1.5	60 814 872
22 W LED927-65 dimmable Dali	140/140/140	1.4	60 813 866

### PANOS infinity Q140 HM LED, flush in ceiling

14 W LED930 dimmable Dali only	140/140/140	1.2	60 814 852
14 W LED940 dimmable Dali only	140/140/140	1.2	60 814 856
21 W LED930 dimmable Dali only	140/140/140	1.2	60 814 884
21 W LED940 dimmable Dali only	140/140/140	1.2	60 814 888
22 W LED927-65 dimmable Dali	140/140/140	1.1	60 813 874

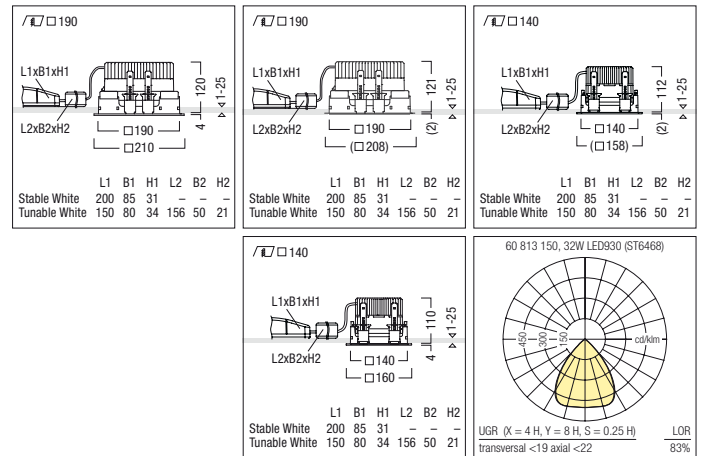
### PANOS infinity Q190 HM LED, white trim

21 W LED930 dimmable Dali only	190/190/140	1.8	60 814 900
21 W LED940 dimmable Dali only	190/190/140	1.8	60 814 904
29 W LED930 dimmable Dali only	190/190/140	1.8	60 814 932
29 W LED940 dimmable Dali only	190/190/140	1.8	60 814 936
32 W LED927-65 dimmable Dali	190/190/160	1.7	60 813 882

### PANOS infinity Q190 HM LED, flush in ceiling

21 W LED930 dimmable Dali only	190/190/140	1.5	60 814 916
21 W LED940 dimmable Dali only	190/190/140	1.5	60 814 920
29 W LED930 dimmable Dali only	190/190/140	1.5	60 814 948
29 W LED940 dimmable Dali only	190/190/140	1.5	60 814 952
32 W LED927-65 dimmable Dali	190/190/160	1.4	60 813 890

For surface-mount housing for the PANOS infinity Q190 H, see the attachments and accessories.





PANOS infinity Q140/Q190 HL LED with painted optic

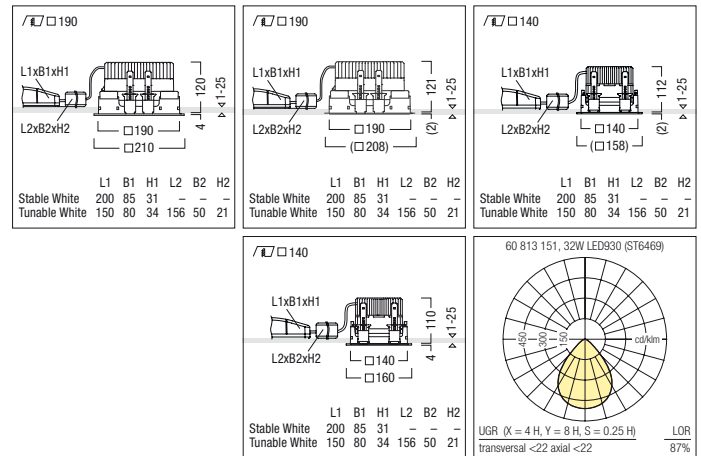


- [...] |
- White reflector, smooth



	EL/EB/ET	kg	Order no.
<b>PANOS infinity Q140 HL LED, white trim</b>			
14 W LED930 dimmable Dali only	140/140/140	1.5	60 814 837
14 W LED940 dimmable Dali only	140/140/140	1.5	60 814 841
21 W LED930 dimmable Dali only	140/140/140	1.5	60 814 869
21 W LED940 dimmable Dali only	140/140/140	1.5	60 814 873
22 W LED927-65 dimmable Dali	140/140/140	1.4	60 813 867
<b>PANOS infinity Q140 HL LED, flush in ceiling</b>			
14 W LED930 dimmable Dali only	140/140/140	1.2	60 814 853
14 W LED940 dimmable Dali only	140/140/140	1.2	60 814 857
21 W LED930 dimmable Dali only	140/140/140	1.2	60 814 885
21 W LED940 dimmable Dali only	140/140/140	1.2	60 814 889
22 W LED927-65 dimmable Dali	140/140/140	1.1	60 813 875
<b>PANOS infinity Q190 HL LED, white trim</b>			
21 W LED930 dimmable Dali only	190/190/140	1.8	60 814 901
21 W LED940 dimmable Dali only	190/190/140	1.8	60 814 905
29 W LED930 dimmable Dali only	190/190/140	1.8	60 814 933
29 W LED940 dimmable Dali only	190/190/140	1.8	60 814 937
32 W LED927-65 dimmable Dali	190/190/160	1.7	60 813 883
<b>PANOS infinity Q190 HL LED, flush in ceiling</b>			
21 W LED930 dimmable Dali only	190/190/140	1.5	60 814 917
21 W LED940 dimmable Dali only	190/190/140	1.5	60 814 921
29 W LED930 dimmable Dali only	190/190/140	1.5	60 814 949
29 W LED940 dimmable Dali only	190/190/140	1.5	60 814 953
32 W LED927-65 dimmable Dali	190/190/160	1.4	60 813 891

For surface-mount housing for the PANOS infinity Q190 H, see the attachments and accessories.



## PANOS evolution Q L

[...] Shared properties PANOS evolution Q LOW

- Ideal where ceiling space is limited: recessed depth just 100 mm
- “Stable White” LED luminaires, colour temperature: 3000 K (LED830: warm white) or 4000 K (LED840: neutral white)
- High-quality reflector unit fastened by catch to modular LED lighting chamber
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim is a single unit made of high-quality, UV-resistant polycarbonate
- White trim, detachable
- Complete model comprises luminaire and ballast unit
- 50,000 h service life at 80 % luminous flux
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Colour rendering index: Ra > 80
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings with thickness 1–25 mm
- EASY-CLEAN catch ensures quick installation of luminaire unit without tools
- Luminaire pre-wired using halogen-free leads
- 3-pole plug-in terminal, through-wiring possible
- Mains voltage: 230 V / 50/60 Hz
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

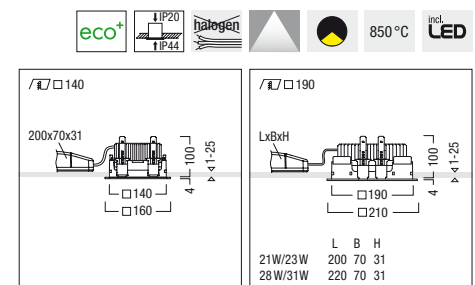
### PANOS evolution Q140/Q190 LF LED with faceted optic



- [...]
- Facetted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19 when used with additional glare-control surround (see attachments)

	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 LF LED, white trim</b>			
13 W LED840	100/140	1.4	60 814 694
14 W LED830	100/140	1.4	60 814 690
21 W LED840	100/140	1.4	60 814 710
23 W LED830	100/140	1.4	60 814 706
<b>PANOS evolution Q190 LF LED, white trim</b>			
21 W LED840	100/190	1.6	60 814 726
23 W LED830	100/190	1.6	60 814 722
28 W LED840	100/190	1.6	60 814 742
31 W LED830	100/190	1.6	60 814 738

For surface-mount housing for the PANOS evolution Q140 L, see the attachments and accessories.



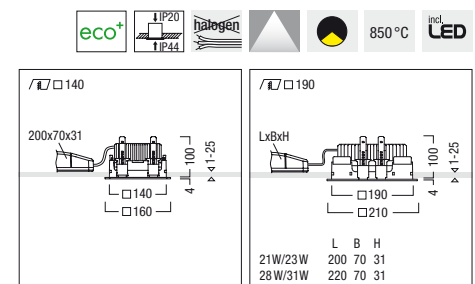
### PANOS evolution Q140/Q190 LG LED with smooth optic



- [...]
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19 when used with additional glare-control surround (see attachments)

	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 LG LED, white trim</b>			
13 W LED840	100/140	1.4	60 814 695
14 W LED830	100/140	1.4	60 814 691
21 W LED840	100/140	1.4	60 814 711
23 W LED830	100/140	1.4	60 814 707
<b>PANOS evolution Q190 LG LED, white trim</b>			
21 W LED840	100/190	1.6	60 814 727
23 W LED830	100/190	1.6	60 814 723
28 W LED840	100/190	1.6	60 814 743
31 W LED830	100/190	1.6	60 814 739

For surface-mount housing for the PANOS evolution Q140 L, see the attachments and accessories.



PANOS evolution Q140/Q190 LM LED with matt optic



- [...]
  - Matt reflector with smooth aluminium-look finish



	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 LM LED, white trim</b>			
13 W LED840	100/140	1.4	60 814 696
14 W LED830	100/140	1.4	60 814 692
21 W LED840	100/140	1.4	60 814 712
23 W LED830	100/140	1.4	60 814 708
<b>PANOS evolution Q190 LM LED, white trim</b>			
21 W LED840	100/190	1.6	60 814 728
23 W LED830	100/190	1.6	60 814 724
28 W LED840	100/190	1.6	60 814 744
31 W LED830	100/190	1.6	60 814 740

For surface-mount housing for the PANOS evolution Q140 L, see the attachments and accessories.

□ 140

□ 190

	L	B	H
21W/23W	200	70	31
28W/31W	220	70	31

PANOS evolution Q140/Q190 LL LED with coated optic



- [...]
  - White reflector, smooth



	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 LL LED, white trim</b>			
13 W LED840	100/140	1.4	60 814 697
14 W LED830	100/140	1.4	60 814 693
21 W LED840	100/140	1.4	60 814 713
23 W LED830	100/140	1.4	60 814 709
<b>PANOS evolution Q190 LL LED, white trim</b>			
21 W LED840	100/190	1.6	60 814 729
23 W LED830	100/190	1.6	60 814 725
28 W LED840	100/190	1.6	60 814 745
31 W LED830	100/190	1.6	60 814 741

For surface-mount housing for the PANOS evolution Q140 L, see the attachments and accessories.

□ 140

□ 190

	L	B	H
21W/23W	200	70	31
28W/31W	220	70	31

## PANOS evolution Q H

|...| Shared properties PANOS evolution Q HIGH

- “Stable White” LED luminaires, colour temperature: 3000 K (LED830: warm white) or 4000 K (LED840: neutral white)
- High-quality reflector unit fastened by catch to modular LED lighting chamber
- High-efficiency LED lighting chamber integrated in the optimised, passive thermal management system made of extruded aluminium section
- Reflector/trim is a single unit made of high-quality, UV-resistant polycarbonate
- White trim, detachable
- Complete model comprises luminaire and ballast unit
- 50,000h service life at 80 % luminous flux
- Luminaire luminous flux: > 1000 lm, > 1800 lm, > 2400 lm (depending on luminaire type)
- Colour rendering index: Ra > 80
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings with thickness 1–25 mm
- EASY-CLEAN catch ensures quick installation of luminaire unit without tools
- Luminaire pre-wired using halogen-free leads
- 3-pole plug-in terminal, through-wiring possible
- Minimum luminaire recess depth 140 mm
- Mains voltage: 230 V / 50/60 Hz
- Can be used with 220 V DC group battery
- Models incorporating 3-hour emergency lighting are available on request
- **Please go to the main product name in the ONLINE catalog to find the latest power consumption figures based on continuous improvements in efficiency**

### PANOS evolution Q140/Q190 HF LED with faceted optic

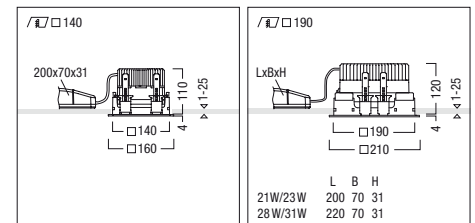


- |...|
- Facetted reflector; highly-reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19



	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 HF LED, white trim</b>			
13 W LED840	140/140	1.5	60 814 702
14 W LED830	140/140	1.5	60 814 698
21 W LED840	140/140	1.5	60 814 718
23 W LED830	140/140	1.5	60 814 714
<b>PANOS evolution Q190 HF LED, white trim</b>			
21 W LED840	140/190	1.8	60 814 734
23 W LED830	140/190	1.8	60 814 730
28 W LED840	140/190	1.8	60 814 750
31 W LED830	140/190	1.8	60 814 746

For surface-mount housing for the PANOS evolution Q190 H, see the attachments and accessories.



### PANOS evolution Q140/Q190 HG LED with smooth optic

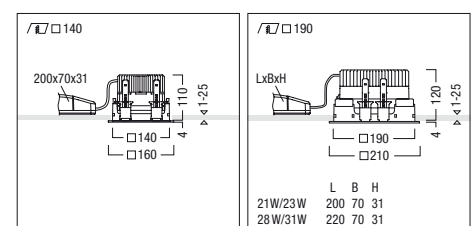


- |...|
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- EN12464 compliant for office applications with UGR < 19



	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 HG LED, white trim</b>			
13 W LED840	140/140	1.5	60 814 703
14 W LED830	140/140	1.5	60 814 699
21 W LED840	140/140	1.5	60 814 719
23 W LED830	140/140	1.5	60 814 715
<b>PANOS evolution Q190 HG LED, white trim</b>			
21 W LED840	140/190	1.8	60 814 735
23 W LED830	140/190	1.8	60 814 731
28 W LED840	140/190	1.8	60 814 751
31 W LED830	140/190	1.8	60 814 747

For surface-mount housing for the PANOS evolution Q190 H, see the attachments and accessories.



PANOS evolution Q140/Q190 HM LED with matt optic



- [...]
  - Matt reflector with smooth aluminium-look finish

	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 HM LED, white trim</b>			
13 W LED840	140/140	1.5	60 814 704
14 W LED830	140/140	1.5	60 814 700
21 W LED840	140/140	1.5	60 814 720
23 W LED830	140/140	1.5	60 814 716
<b>PANOS evolution Q190 HM LED, white trim</b>			
21 W LED840	140/190	1.8	60 814 736
23 W LED830	140/190	1.8	60 814 732
28 W LED840	140/190	1.8	60 814 752
31 W LED830	140/190	1.8	60 814 748

For surface-mount housing for the PANOS evolution Q190 H, see the attachments and accessories.

□ 140

□ 190

L	B	H
21W/23W	200	70 31
28W/31W	220	70 31

PANOS evolution Q140/Q190 HL LED with coated optic



- [...]
  - White reflector, smooth

	RD/RØ	kg	Order no.
<b>PANOS evolution Q140 HL LED, white trim</b>			
13 W LED840	140/140	1.5	60 814 705
14 W LED830	140/140	1.5	60 814 701
21 W LED840	140/140	1.5	60 814 721
23 W LED830	140/140	1.5	60 814 717
<b>PANOS evolution Q190 HL LED, white trim</b>			
21 W LED840	140/190	1.8	60 814 737
23 W LED830	140/190	1.8	60 814 733
28 W LED840	140/190	1.8	60 814 753
31 W LED830	140/190	1.8	60 814 749

For surface-mount housing for the PANOS evolution Q190 H, see the attachments and accessories.

□ 140

□ 190

L	B	H
21W/23W	200	70 31
28W/31W	220	70 31

## PANOS infinity / evolution Q140 – Q190 attachments / accessories

### Glare reduction surround

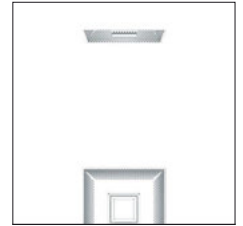
Order no.



- Designed to cut glare from PANOS infinity / evolution Q LF or PANOS infinity / evolution Q LG recessed luminaires
- UGR < 19 for office applications in compliance with EN12464
- Also suitable for use with flush-fitting ceiling luminaires

#### Anti-glare surround

PANOS infinity / evolution Q 140 mm	60 800 694
PANOS infinity / evolution Q 190 mm	60 800 695



### IP54 attachment, transparent

Order no.



- Used to achieve IP54 degree of protection with PANOS infinity / evolution Q recessed luminaires in closed ceilings
- Please note: not suitable for luminaire models that fit flush in the ceiling

#### Transparent attachment (IP54)

PANOS infinity / evolution Q 140 mm	60 800 692
PANOS infinity / evolution Q 190 mm	60 800 693



### Decorative glass attachment, FLUX

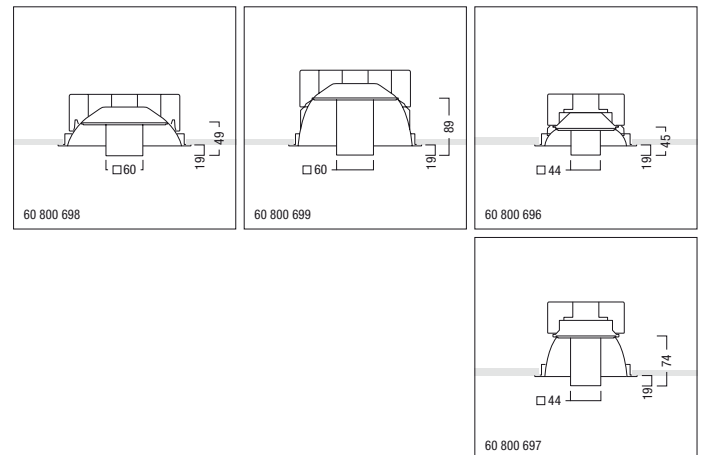
Order no.



- High-quality decorative acrylic glass cube, transparent
- Reflector unit clips quickly in place
- Also suitable for use with flush-fitting ceiling luminaires

#### Decorative attachment

PANOS infinity / evolution Q H 140 mm	60 800 697
PANOS infinity / evolution Q H 190 mm	60 800 699
PANOS infinity / evolution Q L 140 mm	60 800 696
PANOS infinity / evolution Q L 190 mm	60 800 698



**Decorative surround**

Order no.



- Decorative surround in anthracite or silver-look finish
- Decorative attachment surround made of high-quality, UV-resistant polycarbonate in aluminium-look finish
- No-tool installation
- Please note: not suitable for luminaire models that fit flush in the ceiling

**Decorative surround**

PANOS infinity / evolution Q 140 mm, anthracite	60 800 689
PANOS infinity / evolution Q 140 mm, silver	60 800 688
PANOS infinity / evolution Q 190 mm, anthracite	60 800 691
PANOS infinity / evolution Q 190 mm, silver	60 800 690



**Decorative glass attachment, matt exterior**

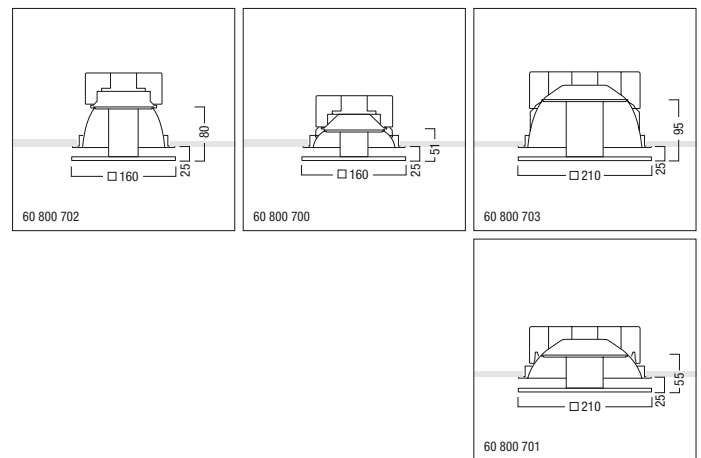
Order no.



- Decorative glass cylinder made of high-quality transparent acrylic glass topped with circular disk and in external matt finish
- Reflector unit clips quickly in place
- Also suitable for use with flush-fitting ceiling luminaires

**Decorative glass attachment**

PANOS infinity / evolution Q H 140 mm, frosted exterior	60 800 702
PANOS infinity / evolution Q H 190 mm, frosted exterior	60 800 703
PANOS infinity / evolution Q L 140 mm, frosted exterior	60 800 700
PANOS infinity / evolution Q L 190 mm, frosted exterior	60 800 701



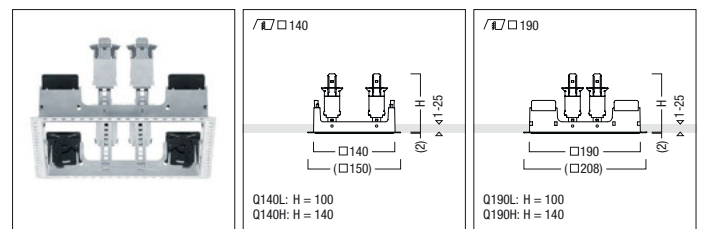
**Flat surround**

Order no.

- For recessed flush-fitting installation of PANOS infinity Q recessed luminaires (flush-fitting model) in plaster ceilings
- Aluminium, perforated, with plastering edge trim

**Flat surround for luminaire only**

PANOS infinity Q 140 mm	60 800 684
PANOS infinity Q 190 mm	60 800 685



PANOS infinity / evolution Q140 – Q190 attachments / accessories

Surface-mount housing for PANOS infinity Q140 L

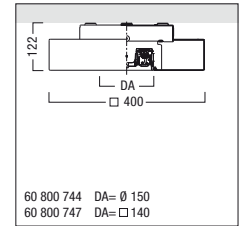


- Low-profile housing for surface-mounting on ceiling for better integration in the architectural surroundings
- Sheet steel 2-piece housing in white powder-coated finish
- Top housing section (including electrical connection) fits to ceiling
- Bottom section of housing for accommodating PANOS infinity Q140 LF / LG / LM / LL recessed luminaire (flush-fitted ceiling model); please order luminaire separately
- Bottom section of housing is snap-fitted into top section
- Electrical supply: 5-pin terminal block with plug-in connection; lead included for connecting to ballast unit
- Prepared for looping-through
- Surface-mount housing is also suitable for emergency lighting models (NA3)
- Planar surround for mounting flush-fitted ceiling luminaire is already prefitted in the surface-mount housing
- The PANOS infinity recessed luminaires achieve IP20 degree of protection when used in combination with the surface-mount housing

Surface-mount housing for PANOS infinity Q140 LF / LG / LM / LL (flush-fitted ceiling model)

	L/W/H	kg	Order no.
PANOS infinity Q 140 mm	400/400/122	3.8	60 800 747

Note on illustration: shows surface-mount housing fitted with luminaire.



Surface-mount housing for PANOS infinity / evolution Q190 H

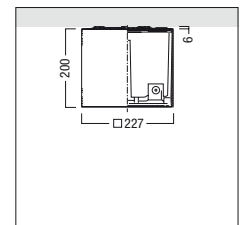


- Square surface-mount housing in classical design
- Die-cast aluminium 2-piece housing in white painted finish
- Top housing section (including electrical connection) fits to ceiling
- Lower housing section designed to take PANOS infinity Q190 HF / HG / HM / HL recessed luminaires (model with white circular trim); please order luminaire separately
- Lower housing section fitted to top section using spring clip
- Electrical supply: 5-pole plug-in terminal with connecting cable to ballast unit
- Prepared for looping-through
- The PANOS infinity / evolution recessed luminaires achieve IP20 degree of protection when used in combination with the surface-mount housing
- Pendant suspension available on request

Surface-mount housing for PANOS infinity Q190 HF / HG / HM / HL (model with white trim)

	L/W/H	kg	Order no.
PANOS infinity / evolution Q 190 mm	227/227/206	2.8	60 800 746

Note on diagram: shows surface-mount housing fitted with luminaire.





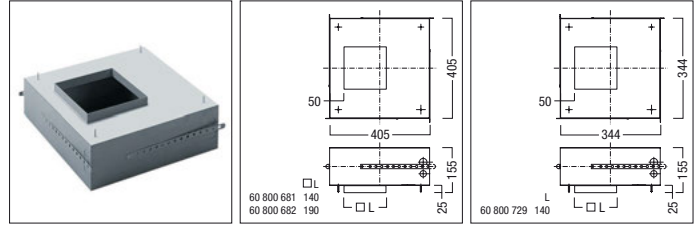
**Concrete casting surround**

- For installing PANOS infinity / evolution Q recessed luminaires in plaster ceilings
- Compact sheet-steel housing
- Stainless-steel housing surround and stabilizing pins
- Housing can be connected to the iron reinforcement and shuttering using special fixing clips
- Can be fitted in exposed concrete ceilings
- Use of concrete casting surround subject to certain restrictions, please see table in installation instructions
- “Tunable White” luminaires only together with concrete casting surround 60 800 681 or 60 800 682

**Concrete casting surround**

	L/W/H	kg	Order no.
PANOS infinity / evolution Q 140 mm	405/405/155	4.4	60 800 681
PANOS infinity / evolution Q 140 mm	405/405/155	4.4	60 800 729
PANOS infinity / evolution Q 190 mm	405/405/155	4.4	60 800 682

60 800 681/682: can also be used for emergency lighting models (NA3).  
 60 800 729: can only be used for standard luminaires Q140.

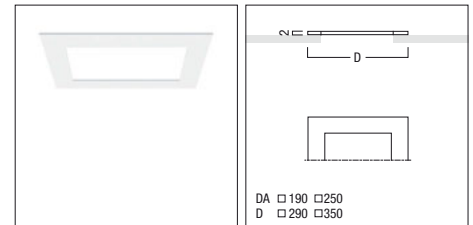


**Ceiling reinforcement surround**

- Mounting kit for thin ceilings or soft ceiling materials
- For increasing or reinforcing supporting area when fixing luminaire
- Material: plastic

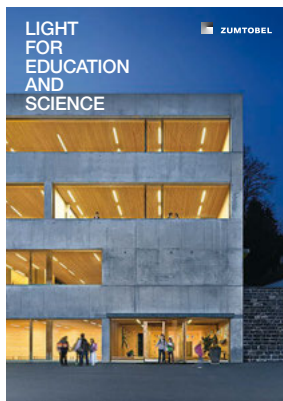
**Ceiling reinforcement surround**

	Order no.
PANOS Q140 mm	60 800 683
PANOS Q190 mm	60 800 385





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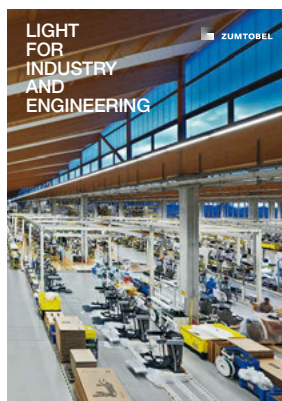
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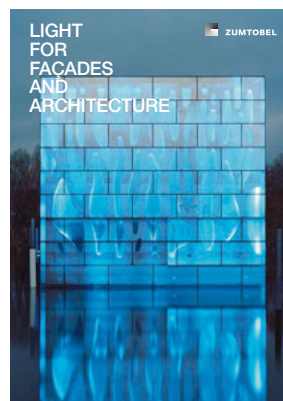
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Technical data was correct at time of going to press.

We reserve the right to make technical changes without notice. Please contact your local sales office for further information. For the sake of the environment: Luxo Light is chlorine-free paper from sustainably managed forests and certified sources.





Tracks and spots



Modular lighting systems



Downlights



Recessed luminaires



Surface-mounted and pendant luminaires



Free-standing and wall-mounted luminaires



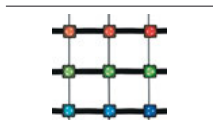
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