PANOS

Downlight system

Customised downlight solutions to meet any requirements.
HUMANERGY BALANCE

Lighting solutions for the balance between the environment, energy and the individual.

PANOS lighting quality

Highly functional and flexible
Basic geometric shapes for a uniform appearance
Brilliant colour rendition
Individuality thanks to attachments

Conferencing: concentrated light in the conferencing area gets the day off to a good start.

Presentation: reduced ambient lighting with PANOS allows adaptation to various activities.

www.zumtobel.com/panos
Break: daylight is sufficient to light the room at break times.

End of the day: accents deep inside the room enhance room lighting by PANOS.

Lighting quality assessed on the basis of five criteria:
A: Visual performance
B: Vista
C: Visual comfort
D: Vitality
E: Empowerment

Energy consumption in kWh per annum and per square metre, based on EN 15193.
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The name PANOS stands for a complete, modular downlight product range that teams exquisite, consistent design with high levels of practical functionality. An extensive selection of models, components and light sources provides unrivalled flexibility for designers and architects, regardless of project size and lighting task. Numerous innovative details save both installation time and expense. Energy-saving technologies and durable, re-usable materials mean that these luminaires use resources economically and won’t eat into your budget. The design of PANOS remains true to the designers’ vision: good lighting paints metaphors and sets the stage for the comedy of life. The accents set by PANOS wherever people go about their daily lives create a wide variety of effects.
The contemporary architectural style is characterised by pared-down reduction to basic geometrical shapes. The emphasis is on proportion, form and materiality, which coalesce into a single entity. This was the starting point for developing the square PANOS Q downlight. Its straight-line design is expressed not only in its external shape but also in its details. The one-piece angular reflector unit continues the consistent square theme. The frameless model of PANOS Q is particularly unobtrusive and blends light and space in a single minimalist unit.
ELI: generous amounts of daylight brighten up the atrium with natural light. PANOS downlights supplement optimal illumination in circulation areas. PANOS blends unobtrusively into the architectural concept and at the same time meets requisite design requirements. LENI: annual energy consumption 10.2 kWh/m²
An important basic idea was the force behind the development of the PANOS downlight product range: to provide a tailor-made downlight in one design format for every application. The members of the PANOS product family make it a uniquely comprehensive product line that blends harmoniously into any architectural setting. An ingenious modular concept with five alternative diameters, from 100 to 250 mm, and two square models measuring 190 and 250 mm, a broad range of reflector optics, a large choice of light sources and attachments all add up to unbeatable scope for creative design. All models can be fitted with a wide variety of accessories, regardless whether they are fixed or swivelling, spot or flood, made of metal or high-quality polycarbonate, recessed or surface mounted. These accessories include reflectors, attachment discs, cover rings, design accessories made of glass, and an abundance of louvre and filter accessories.
The PANOS family is not only perfect for various application areas and lighting tasks, it also boasts excellent economic efficiency. This includes the possibility of integrating it into intelligent building management systems. Fitted with dimmable electronic ballasts (DALI), PANOS can be controlled by intelligent lighting management systems such as LUXMATE. This not only saves energy, it also makes it possible to set rooms center-stage using dynamic lighting programs. Opting for PANOS also means going for safety, a fact which is demonstrated not least by the central or distributed emergency lighting applications which can be integrated.
The right downlight for every application

PANOS LED

Page 22

PANOS LED Pure White
PANOS LED Pure White/BioMotion

PANOS L

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PANOS L

PANOS H

Page 28

PANOS H
PANOS H-WW

PANOS M

Page 34

PANOS M-L
PANOS M-H
PANOS M

PANOS M-V
PANOS M-D
PANOS M-WW (Wallwasher)
**Advantages**

- 1100 lm or 2000 lm projected light, ideal replacement for 1/26 W or 2/26 W fluorescent lamps
- PANOS Pure White: 3000 K ad 4000 K static colour temperature
- PANOS BioMotion:
  - 2700 to 6500 K variable colour temperature, optionally RGB
  - Dynamic colour scenarios
- Efficient lighting thanks to high light output ratios
- Uniform, wide-area lighting
- Compact space requirement thanks to shallow mounting depth of just 100 mm
- Easily meets requirements of EN 12464
- General lighting with perfect glare control
- Various reflectors can be chosen depending on the illumination task
- Non-iridescent HF and HG reflectors thanks to innovative sputtering method
- Service life of up to 50,000 hours at 70% luminous flux reduces maintenance effort and maintenance costs
- IR- and UV-free is gentle on fragile exhibits and surfaces
- Creative design scope thanks to technical lighting and decorative accessories
- Non-iridescent LF and LG reflectors thanks to innovative sputtering method
- Selection of light sources rated from 13–57 W
- Uniform, wide-area lighting
- Light-tight (no stray light when used with perforated ceilings)
- H-WW reflectors in same look – for additional highlighting of vertical surfaces
- Selection of light sources rated from 13–57 W
- Efficient lighting thanks to high light output ratios
- Uniform, wide-area lighting
- Light-tight (no stray light when used with perforated ceilings)

**Application areas**

- Shops
- Museums
- Hotels and wellness areas
- Health and Care
- Foyer and reception areas
- Corridor areas and hallways
- Foyers and reception areas
- Corridor areas and hallways
- Restaurants
- Adjoining rooms
- Shops, stores and malls
- Lounges and cafeterias
- Museums and galleries
- Buildings with high ceilings
- Prestigious areas

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PANOS M:
- Standard flat ring design in PANOS M family
- Creative design scope thanks to technical lighting and decorative accessories
- Meets exacting requirements in terms of fire loads
- Wide range of lamp types allows both pinpoint accent lighting and wide-area general lighting
- PANOS M-L/PANOS M-H:
  - Non-iridescent LG and HG reflectors thanks to innovative sputtering method
  - Efficient lighting thanks to high light output ratios with PANOS M-L (Low)
  - PANOS M High easily meets requirements of EN 12464
- PANOS M-V:
  - Inwardly swivelling luminaire head (35°) allows high degree of flexibility with an uncluttered ceiling look
- PANOS M-D:
  - Maximum glare limitation thanks to dark-light reflector
- PANOS M-WW:
  - Uniform illumination of vertical surfaces such as walls, shelves, paintings
- Uniform, wide-area lighting
  - Light-tight (no stray light when used with perforated ceilings)
The right downlight
for every application

PANOS S
Page 42

PANOS S 100
PANOS S 150
PANOS S 250

PANOS A
Page 48

PANOS A-L
PANOS A-H
PANOS A-M

PANOS Q
Page 52

PANOS Q-L
PANOS Q-HIT
PANOS Q-H
## Advantages

- High degree of flexibility thanks to swivel-in and swivel-out function and rotation through 360°
- Special filters for use in food areas
- Coloured accents are possible by using colour filters
- Reduced construction and installation costs thanks to surface mounting on ceiling (exposed concrete ceilings)
- Uniform standardised look thanks to consistent design
- Impressive versatility thanks to various reflectors for PANOS L and H range
- Compact space requirement thanks to shallow mounting depth of just 100 mm in case of PANOS Q-L
- PANOS Q High meets requirements of EN 12464 without additional attachments
- Uniform, wide-area lighting fitted with one lamp in case of PANOS Q-L
- General lighting with perfect glare control using PANOS Q-H fitted with one or two lamps
- Applications using PANOS Q-HIT have the same look as PANOS Q-L
- Creative design scope and design variety thanks to four different reflector surfaces and various design frames
- Reflectors with smooth and faceted non-iridescent optics thanks to innovative sputtering method
- Abundant design options using decorative attachments
- One-piece reflector unit made of high-quality polycarbonate

## Application areas

- Various reflectors allow use for accent lighting, wall washing or flood lighting
- Lighting in high-ceilinged rooms using PANOS A HIT
- Creative design scope thanks to technical lighting and decorative accessories
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## The entire family at a glance

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| ø 175 mm | ø 200 mm | ø 250 mm | ø 200 mm | ø 250 mm | ø 100 mm | ø 150 mm | ø 200 mm | ø 250 mm |

| Faceted | Smooth | Matt | Painted | Metal specular | Metal matt | Metal specular |

| Smooth (WW) | | | | | | |

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<td><img src="image2.png" alt="PANOS M-WW" /> (Wallwasher)</td>
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**Technical lighting attachment**

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<td>PANOS Q-L/Q-H</td>
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Baar Central Hospital | Baar/CH
Architect: Burckhardt + Partner AG | Zurich/CH
Lighting solution: PANOS Q-LM 190
The latest member of the PANOS family gives an impressive demonstration of what is now possible using innovative LED technology. Its special appearance gives a hint of some of its exceptional features: high energy efficiency and remarkably long maintenance intervals bring cost benefits and ensure environmental sustainability. IR/UV-free light from PANOS LED makes it possible to illuminate even sensitive areas in museums and shops where the best possible protection must be provided for exhibits and merchandise on display. There is a choice of two basic versions depending on the particular application: PANOS Pure White is available in two colour temperatures and lumen packages whereas PANOS BioMotion with RGB light, for example, makes it possible to accurately mimic natural changes in light over the course of the day. The diameter of all the LED models is 150 mm.
PANOS LED
Maximum performance for people and the environment

The high illuminance levels of PANOS LED Pure White achieve the same brightness as compact fluorescent lamps. The powerful 1100 lumen luminaire’s brightness is equivalent to that of a 26 W fluorescent lamp, and the 2000 lm version is equivalent to two 26 W or one 32 W fluorescent lamp. Its high luminous flux demands effective thermal management. The 2000 lm PANOS LED therefore incorporates special cooling. This ensures many years of trouble-free operation. Glare limitation (UGR < 19) makes this downlight suitable for DSE workstations, as is PANOS LED BioMotion.

<table>
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<tr>
<th>PANOS HG 150 LED</th>
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<tr>
<td><strong>Pure White 2000 lm</strong></td>
<td><strong>Pure White 1100 lm</strong></td>
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<td>Luminous flux</td>
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<tr>
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<td>1100 lm</td>
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<td>Colour temperature</td>
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<td>3000 K, 4000 K</td>
<td>3000 K, 4000 K</td>
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<td>Design size</td>
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<tr>
<td>ø 150 mm</td>
<td>ø 150 mm</td>
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<tr>
<td>Reflectors</td>
<td>Reflectors</td>
</tr>
<tr>
<td>Smooth, matt, painted</td>
<td>Smooth, matt, painted</td>
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Inspired by the perfect model provided by mother nature, PANOS BioMotion can be synchronised with the human body clock to ensure a greater sense of well-being and productive capacity. Besides mimicking variations in daylight over the course of the day through its colour temperature spectrum, the luminaire also makes it possible to generate dynamic colour-changing RGB lighting scenarios as required by the EMOTION touch panel. The luminaire can therefore be used to produce refreshing lighting scenes in enclosed spaces in particular. The luminaire uses RGB technology, supplemented by white LEDs, to achieve a colour temperature of 2700 K to 6500 K at a colour rendition index Ra of 80.

**PANOS HG 150 LED BioMotion**

- **Luminous flux**: 1100 lm
- **Colour temperature**: 2700 K to 6500 K
- **Design size**: ø 150 mm
- **Reflectors**: Smooth, matt, painted
- **Optional**: Dynamic colour-changing RGB lighting scenarios
PANOS BioMotion
Dynamically changing colours and variable colour temperatures

PANOS BioMotion, installed in the anteroom to the bank vault in the Hohenhausen Savings Bank, changes the colour temperature and intensity of light over the course of the day in the same way as in nature: from warm white through cool white to warm white light again. In addition, dynamic colour-changing RGB accent lighting sets the strongroom atmospherically centre-stage in the evening. A lighting solution using PANOS BioMotion creates the best possible light for people while also delivering energy-efficient lighting thanks to intelligent control.
High luminous flux levels also produce heat in the case of LED lighting systems. Effective cooling of the circuit board is a crucial factor in achieving a long service life. This is why Zumtobel uses the “SynJet™” active cooling system, which reduces surface temperatures by up to 30 °C, for PANOS LED. A vibrating membrane or diaphragm creates air turbulence and expels warm air from the LED housing through cooling fins. The system generates negligible noise (25 db) – equivalent to the noise of someone 1 m away breathing.
One can almost describe these downlights as classics because PANOS L (Low) and H (High), with a diameter of 175 mm, 200 mm or 250 mm, boast all the requisite features which are important for providing optimum lighting quality at and around the workstation. The light output ratios of the latest models have been significantly improved by a new surface coating. The glare control characteristics of both models meet the requirements of EN 12464. Design and function are reconciled in one impressive unit. This is all the more applicable because the modular design of PANOS with its many possibilities of different combinations gives lighting designers everything they need to create lighting scenarios that are just right for specific applications.
PANOS L and H
The pros in office environments

Mounting depth of just 100 mm
Thanks to the use of a radial louvre, PANOS L is able to provide lighting in conformity with standards for DSE workstations even in situations where space is tight.

Ergonomic working
Meets the most demanding glare limitation requirements without any additional accessories. The HF and HG darklight optics comply with category UGR 16/19 of European standard EN 12464.

Precision detailing
The excellent technical lighting characteristics of PANOS L and H reflector optics would be impossible to achieve if it were not for the exceptional accuracy of their injection-moulded components made of high-grade, heat-resistant polycarbonate that direct the light. Zumtobel uses the sputtering method to coat the reflectors, regardless whether they are faceted, smooth or wallwasher reflectors. Aluminium is sputtered onto the plastic in a high vacuum, and a very thin but extremely hard protective layer is applied over this. Compared to the conventional vapourising or metallising of surfaces with aluminium, sputtering ensures a significantly higher quality of the layer and a remarkable improvement in edge coverage.

HWW reflector
Light is distributed asymmetrically without the need for any additional clip-in/on parts thanks to an ingenious rib structure – this is ideal for high-lighting vertical surfaces.

LG/HG reflector
Even in the smooth version of the highly specular reflector, innovative coating and matching reflector technology provide glare-free task area lighting at the highest level.
Pleasant ambient lighting is provided by the smooth white optic. It also fits in perfectly with the decorative accessories and the IP 54 glass attachments.

The discreet matt aluminium surface of the reflector does not look as though it needs dusting all the time. It looks clean, ensuring PANOS always looks great.

Precision-shaped facets break the light down so that it is more gentle on the eye. This results in brilliant effects at reduced luminance, and an increase in light output.

This unique metallisation process has set a new standard in the market. Other advantages include non-iridescence and simple cleaning using a cleaning cloth (see accessories).

No environmental impact Compared with conventional coating methods (anodising), sputtering is also environmentally benign because it produces no chemical emissions that have an impact on the environment. In addition, all PANOS L and H luminaires are manufactured using halogen-free materials, and are 100% recyclable.
ELI: the uncluttered lines of the lighting work well with the straight-line architectural concept and make it easier to find one’s way around the building. The zonal lighting in public areas also saves energy. Focal lighting points set accents in the room.

LENI: annual energy consumption 13.65 kWh/m²
This accomplished pairing of design and technology naturally also includes the PANOS M (Metal) part of the product range which has grown with the addition of two new members: PANOS M-V and PANOS M-D. The use of heat-resistant metal reflectors considerably extends the range of lamps that can be fitted in PANOS, and hence its range of uses. In 100, 150, 200 and 250 mm ceiling cutouts, PANOS M can be used with a very varied selection of light sources ranging from low voltage and high voltage halogen lamps, compact fluorescent lamps through to high-wattage discharge lamps. PANOS M-WW provides a powerful wallwasher that supplements the varied applications of PANOS M still further. The additional use of specific technical lighting accessories such as IR/UV filters means that PANOS M is also recommended for solving tricky lighting tasks such as those in shops or supermarkets.
PANOS M

PANOS M-D | smooth

PANOS M-V | smooth

PANOS M-L | smooth/matt

PANOS M-H | smooth/matt

PANOS M | smooth/matt

PANOS MWW | wallwasher, smooth
This recessed directional spotlight, with its large swivel range of up to 35°, a 360° rotation range and a sputtered anti-glare reflector, can cope even with the exacting requirements encountered in museums and shops. As a special luminaire for presenting items and merchandise precisely, PANOS M-V stays flush with the ceiling in all its positions, thereby ensuring an uncluttered ceiling look.
In PANOS M-D, a combination of glare-free reflector geometry and highest-grade reflector surfaces reliably prevents directly viewing the light source and protects against reflections. Even when the luminaire is switched on, it retains its dark appearance and the light source remains hidden from view. The result: the room is aglow but the light source remains invisible.
PANOS M and MWW
High-tech lighting tools

Two members of the product range, PANOS M-L (Metal Low) and M-H (Metal High) with either a matt or smooth reflector surface, are fitted with TC lamps rated 18 to 57 W. It is even possible to use TC-TELI amalgam lamps, distinguished by their constantly high luminous flux. A sophisticated ventilation system not only permits recessed mounting in the ceiling without any escape of stray light, it is also compatible with an enclosed IP 54 version. Another innovative highlight of PANOS M-HG/LG are their sputtered metal reflectors. These achieve a non-iridescent darklight effect and make it possible to improve light output still further.

PANOS M-LG  When fitted with 2/42 W lamps, PANOS M-LG achieves an excellent light output ratio in excess of 75%, with a shallow recessed depth of just 100 mm.

PANOS M-HG  The metal reflector of PANOS M-HG minimises direct glare to UGR 16/19 in conformity with EN 12464 without the use of any additional attachment elements.
At first glance, you would not be able to externally distinguish the PANOS M-WW from the PANOS M rotationally symmetrical downlight – PANOS M-WW blends inconspicuously into the ceiling but, as a wallwasher, sets the stage masterfully for walls, pictures, shelves and much more besides. The ceiling look and the interior design remain undisturbed thanks to the uniform design of the front ring. PANOS M-WW is available in two diameter sizes (200 mm and 250 mm). Its ability to accommodate various light sources up to 250 W lends PANOS M-WW even greater flexibility still.

**Flange as a design element**  The inconspicuous 2 mm thick flange made of die-cast aluminium blends harmoniously into the ceiling and also gives PANOS M a uniform appearance right across the range.

**Wide variety of lamps**  PANOS M makes it possible to use a wide variety of different light sources (TC, HIT, HST, QT, TC-TELI) as well as various technical lighting accessories such as IR/UV filters and special foodstuff filters.
ELI: Due to their positioning, PANOS downlights assume two functions at a time: apart from lighting circulation areas, the streaks of light on the wall make for a representative appearance of the foyer. The natural brightening of the ceiling through indirect light creates the impression of an atrium flooded with daylight.

LENI: annual energy consumption 18.29 kWh/m²
In many respects, PANOS S (Swivelling) really sets the trend. The light direction is easily adjustable, both horizontally and vertically. The wide range of up-to-date light sources available leaves nothing to be desired – whether PANOS S is used as a spot or flood. The unique flip-out tab on the surround ensures that PANOS S can be positioned easily in the desired location. This flexible handling is also matched by the wide variety of available design sizes (100 mm, 150 mm, 200 mm up to 250 mm diameters).
PANOS S
More freedom for vertical adjustment

PANOS S 150 | QT12

Matching reflectors for every occasion
Spot and flood reflectors for PANOS models S 100, S 150 and S 200 perfectly set the stage for products and brands. The reflector geometry is precisely matched to every light source to ensure an extremely high light output.

Small tab – big effect
The PANOS S housing is extremely mobile and particularly convenient to use thanks to its integral flip-out tab. Just flip out the tab and move the housing into the required position. The generous surface area of the flip-out tab ensures maximum operating convenience. Then flip it in again, and the tab disappears from sight into the luminaire. The PANOS S housing can be adjusted while the downlight is in use without any problem because the flip-out tab is arranged so that it never heats up. The direction of light can be modified almost without restriction at any time. No need for any tools, installation effort or help from anyone else.
With PANOS S fully swivelled out to 60º, it is possible to illuminate a wall or a shelf from its top edge. The choice of spot or flood reflectors guarantees perfect light distribution.

The separate adjustability of the lighting head and housing is absolutely unique for downlights. This allows you to obtain selective shading of a specific area and also prevents people looking directly into the lamp from the side.

For illuminating different levels of shelving or retail islands in a shop, PANOS S can be swivelled into the ceiling by up to 45º. In this position, the lighting head remains inconspicuous in the ceiling and gives it a very calm appearance.
PANOS encourages impulse buying

ELI: besides pleasant bright ambient lighting, concentrated light from the swivelling PANOS specifically brings merchandise into the foreground. The lighting is supplemented by the room’s emotive cove lighting.

LENI: annual energy consumption 45.07 kWh/m²

Douglas Cosmetics Department | Brunswick/D
Architecture: Shoplifters Köster | Hagen/D
Lighting solution: PANOS S 150 for rear wall lighting, PANOS M 150 for ambient lighting
The downlight range’s field of application is extended significantly by the PANOS A (Surface-mounted) version with a reflector diameter of 200 mm. Development of the surface-mounted downlights was based on PANOS L and H, and they are just what is needed in any situation where suspended ceilings have been rejected on grounds of cost or for aesthetic reasons, but importance is still attached to perfect lighting quality. It is optionally available with TC or HIT lamps. The high version of PANOS A with a metal reflector (MG) for HIT lamps is specially earmarked for lighting rooms with high ceilings.
PANOS A
Decorative and much more besides

The surface-mounted PANOS A is available as a low (L) or high (H) model. Four different reflectors made of high-quality polycarbonate or a metal reflector in the case of PANOS A-MG are available for both models. Like the recessed versions, these luminaires are distinguished by their outstanding technical lighting characteristics which include excellent glare control: the PANOS A HG/HF model, without any technical lighting attachment elements, satisfies the stringent requirements of EN 12464 with a UGR figure of 16/19. Installation on the ceiling is really easy, and lamps and reflectors can be replaced from below without using any tool.
PANOS A 51 PANOS A-MG 200 PANOS A-HM 200

Lamp(s)
HIT-DE, 70 W
Size
ø 230 mm, height 260 mm
Reflector optic
Smooth

PANOS A-M 200

Lamp(s)
TC-TEL/TELI, 18/26 W
Size
ø 230 mm, height 200 mm
Reflector optic
Faceted, smooth, matt, painted

Variety of accessories
Because PANOS L/H and PANOS A share their reflectors, the entire range of technical lighting and decorative accessories available (louvre, IP 54 attachment, decorative rings) can be used.
The logical consequence of straight-line thinking – this sums up the idea behind PANOS Q (Square) in simple terms. PANOS Q is inspired by the contemporary pared-down, geometric stylistic idiom, and both models (190 x 190 mm and 250 x 250 mm) continue this trend consistently. The luminaire can be fitted with HIT lamps as well as compact fluorescent lamps. The one-piece reflector unit offers symmetrical, wide-angle light distribution with a good cut-off angle, thus making PANOS Q especially efficient when used in offices and administrative premises. PANOS Q has, however, also become a firm favourite in shops and other sophisticated environments, not least because of the wide variety of creative design possibilities provided by its decorative and technical lighting attachments.
PANOS Q
A clear choice: exceptional flexibility

**PANOS Q-L 190**
- **Design size**: 190 x 190 mm
- **Mounting depth**: 100 mm
- **Reflector optics**: Faceted, smooth, matt, painted
- **Lamp(s)**: Single-lamp 18/26/32 W TC-TEL/TELI
- **Frames**: Titanium colour, white, chrome Frameless

**PANOS Q-HIT 190**
- **Design size**: 190 x 190 mm
- **Mounting depth**: 150 mm
- **Reflector optics**: Smooth
- **Lamp(s)**: Single-lamp 70 W HIT
- **Frames**: Titanium colour, white, chrome Frameless

**PANOS Q-H 250**
- **Design size**: 250 x 250 mm
- **Mounting depth**: 200 mm
- **Reflector optics**: Faceted, smooth, matt, painted
- **Lamps fitted**: Single-lamp and twin-lamp with 18/26/32/42 W TC-TEL/TELI
- **Frames**: Titanium colour, white, chrome Frameless

**PANOS Q-L 190** This is the smallest commercially available downlight for compact fluorescent lamps. With a mounting depth of just 100 mm and a side length of 190 mm, it fits straightforwardly into almost any ceiling system. The luminaire’s especially high light output ratio (thanks to its optimally matched reflector geometry and shallow overall height) is a decisive advantage.

**PANOS Q-HIT 190** Wherever brilliant colour rendition is important, for example, in showrooms or shops, the benefits of the HIT version are immediately visible. PANOS Q is therefore capable of handling an extremely diverse range of lighting situations while maintaining a consistent appearance.
Panos Q 55
Panos Q-H 250
The larger model in the Panos Q series meets the requirements of the EN 12464 glare control standard without additional attachments. This model is therefore predestined for general lighting of DSE workstations. If required, Panos Q can be upgraded to protection class IP 54 using an optional glass panel. Panos Q-H can be fitted either with one or two lamps. The high luminous flux when fitted with 2 x 42 W offers sufficient output capacity for large surface areas and high ceilings and deserves a special mention.
Persuasive freedom of design for straight-line architecture

Reflectors Four different reflector surfaces, each in two design sizes, meet the most important technical lighting and design requirements in the case of PANOS Q. The reflectors in both sizes are one-piece units moulded from high-grade polycarbonate to ensure optimum strength and light-tightness. The reflector top is made of die-cast aluminium and optimises thermal management. Whichever reflector is chosen, they all feature the same consistent straight-line geometry. The brilliant, precision-cut facets of the diamond optic are absolutely innovative in a square downlight.
Frames PANOS Q models can adapt to any room situation, both in terms of technical lighting performance and design. A selection of various frame designs makes a considerable contribution towards achieving this. Purists in particular will not fail to appreciate the frameless model, which accepts a secondary, minimalist role to the architecture. Light emerges from an apparently floating cube.
Attachment elements  With an attachment fitted, the downlight becomes a special feature of the interior and, although still entirely unobtrusive, can provide a variety of design accents. Especially where the light emitted is to be visible, design attachments create an interesting interplay of light.
PANOS
for a stimulating feel-good factor

ELI: PANOS Q ensures that the pharmacy is uniformly lit. Vertical shelf surfaces are lit by luminaires with asymmetrical light distribution and spotlights which can be used flexibly in order to ensure optimal product recognition.
LENI: annual energy consumption 28.17 kWh/m²

Ross pharmacy | Lage/D
Architect: Bussemas Architects | Lage/D
Lighting solution: PANOS Q-HF 250, PANOS Q-HF 250 with wallwasher attachment, VIVO M spotlight, CARDAN SPIRIT CS-E1 gimbal-mounted luminaire module
Intelligent design details mean that PANOS downlights can be installed and uninstalled entirely without the use of any tools. First install the sturdy die-cast aluminium ring that is fixed in the ceiling by spring mountings. Then simply insert the reflector unit in the case of round versions and lock it by using the bayonet catch. Thanks to its twist and lock mechanism, both the reflector unit and accessories can be installed or removed with a twist of the wrist.

* Instructions apply to all round PANOS models except PANOS A models
Ease of installation and maintenance are equally characteristic of PANOS Q. In this case, locking of the reflector unit is acknowledged by an audible click. Finally, the cover frame is mounted and locked in place with a simple shift movement. The reflector automatically recedes giving the frame space to fit directly against the ceiling. This "shift and lock system" has been specially developed by Zumtobel and is also used for fixing the attachments.

Easy installation – even of the frameless version: the special mounting frame is simply inserted into the cut-out and fixed with screws. Filler or plaster can then be applied up to the black contact edge.
PANOS – balanced lighting solution

ELI
Ergonomic Lighting Indicator:
Lighting quality is assessed on the basis of five criteria.
A visual performance
B Vista
C Visual comfort
D Vitality
E Empowerment

LENI
Lighting Energy Numeric Indicator:
This energy-efficiency indicator quantifies annual energy consumption in kWh per square metre based on EN 15193.

Composing light
Dynamic light which adapts itself to time of day and particular activities. Composed interactively with VIVALDI. This easy-to-use computer program makes every aspect of energy efficiency and lighting quality visible and measurable.

www.zumtobel.com/vivaldi

ELI and LENI – a comparison, taking the lighting solution on pages 2–3 as an example.

Basic conditions:
Room size: 6 x 8 m
Usage time: 9 a.m. to 5 p.m.
5 days a week
Mean illuminance 500 lx

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<th>Accent lighting:</th>
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<td>PANOS</td>
<td>XENO</td>
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<td>RGB cove lighting</td>
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<td>Dynamically controlled</td>
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<th>Accent lighting:</th>
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<td>Static switching</td>
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<th>ELI</th>
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## PANOS in balance

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<th>LAMPS</th>
<th>ELI lighting quality</th>
<th>LENI energy efficiency</th>
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<tr>
<td>Compact fluorescent lamps TC-TEL / TELI</td>
<td>Critical luminance levels, therefore ensure good glare control</td>
<td>High luminous efficiency</td>
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<tr>
<td>High-intensity discharge lamps HIT/HST</td>
<td>Good to very good colour rendition</td>
<td>High to very high luminous efficiency</td>
</tr>
<tr>
<td>LED</td>
<td>High colour constancy throughout entire service life Not dimmable</td>
<td>Relatively short maintenance intervals</td>
</tr>
<tr>
<td></td>
<td>Precise illumination IR- and UV-free light Coloured, changing light Various colour temperatures</td>
<td>Long maintenance intervals</td>
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<td></td>
<td></td>
<td>Luminous efficiency is constantly rising for white light Long service life</td>
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<tr>
<th>LUMINAIRE</th>
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<tbody>
<tr>
<td>Reflectors (Matt, faceted, smooth, painted)</td>
<td>High-quality reflectors for an upmarket appearance, reduced glare and brilliant effects with faceted diamond optic reflector</td>
</tr>
<tr>
<td>Frames (Titanium colour, white, chrome, frame-less)</td>
<td>Decorative frame for a striking look</td>
</tr>
<tr>
<td>Attachments (Cover frame, design frame, IP 54 attachments, design attachments, technical lighting attachments, suspended attachments)</td>
<td>A selection of attachments lend the luminaire an individual note Glare control using technical lighting attachments Consistent, uncluttered look</td>
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<tr>
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<td>Flicker free Noise free No strobe effects Less physically tiring than magnetic ballasts for example More environmentally sustainable</td>
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<tr>
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<td>Flicker free Noise free No strobe effects Less physically tiring than magnetic ballasts for example More environmentally sustainable Dimmable</td>
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<tr>
<td></td>
<td>Higher luminous efficiency Longer service life Automatic switch-off at end of lamp life Increased safety</td>
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<tr>
<td></td>
<td>Higher luminous efficiency Longer service life Automatic switch-off at end of lamp life, increased safety Low standby losses (0.3 to 0.5 W)</td>
</tr>
</tbody>
</table>
# PANOS L system overview

**Distribution characteristics**

- **Wide-angle**

<table>
<thead>
<tr>
<th>Distribution characteristics</th>
<th><strong>Compact fluorescent lamps (TC-TEL, TC-DELI)</strong></th>
<th><strong>IP 54 kit</strong></th>
<th><strong>Decorative elements</strong></th>
<th><strong>Other attachment elements</strong></th>
<th><strong>Accessories</strong></th>
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<tbody>
<tr>
<td></td>
<td>1/13 W</td>
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<tr>
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<td>2/13 W</td>
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<tr>
<td></td>
<td>1/18 W</td>
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<tr>
<td></td>
<td>1/26 W</td>
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<tr>
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<td>2/32 W</td>
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<tr>
<td></td>
<td>1/42 W</td>
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<td>2/42 W with metal head</td>
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<tr>
<td><strong>Compact fluorescent lamps (TC-TEL)</strong></td>
<td>1/18 W</td>
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<td>2/42 W with metal head</td>
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<td>1/57 W with metal head</td>
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<td><strong>Glass elements, clear, frosted centre</strong></td>
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<td><strong>Glass elements, clear, frosted outer ring</strong></td>
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<td><strong>Glass elements, frosted, screw-fastened</strong></td>
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<td><strong>Rings, clear, frosted or blue</strong></td>
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<td><strong>Anti-glare cone</strong></td>
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<td><strong>Radial louvre</strong></td>
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<td><strong>Polygonal louvre</strong></td>
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<td><strong>Information signs</strong></td>
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<td><strong>Concrete casting surround</strong></td>
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<td><strong>Retrofit ring</strong></td>
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<td><strong>Plaster ring</strong></td>
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<td><strong>Panel plates</strong></td>
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<tr>
<td><strong>Planar ring</strong></td>
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</tbody>
</table>
I. Shared properties

- Ideal where ceiling space is limited: recessed depth just 100 mm
- Reflector/covers ring unit made of high-quality, UV-resistant polycarbonate
- Cover ring, white
- Horizontal lamp position
- Complete model comprises luminaire and ballast unit

- 5-pole terminal with plug-in connection
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1.25 mm
- No-tool quick installation of reflector/cover-ring unit by means of bayonet fixing
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- IP 54 possible using accessories
- Models with 1-hour or 3-hour emergency lighting available on request

PANOS LF 175/200/250 with faceted optic

- (...)
- Symmetrical wide-angle beam with high efficiency level
- Facetted reflector; highly-reflective aluminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR 16/19 when fitted with radial louvre attachment (see cover elements)
- With 2/42 W or 1/57 W TC-TELI reflector head made of aluminium

<table>
<thead>
<tr>
<th>PANOS LF 175 with dimmable electr. ballast</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-DL, G24 q-2</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TL, G24 q-2</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DL, G24 q-3</td>
<td>100/175</td>
<td>0.8</td>
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<tr>
<td>1/26 W TC-TL, G24 q-3</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>2/13 W TC-DL, G24 q-1</td>
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<td>0.9</td>
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<table>
<thead>
<tr>
<th>PANOS LF 175 with electronic ballast</th>
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</thead>
<tbody>
<tr>
<td>1/13 W TC-DL, G24 q-1</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-DL, G24 q-2</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TL, G24 q-2</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DL, G24 q-3</td>
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<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TL, G24 q-3</td>
<td>100/175</td>
<td>0.8</td>
</tr>
<tr>
<td>2/13 W TC-DL, G24 q-1</td>
<td>100/175</td>
<td>0.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PANOS LF 200 with dimmable electr. ballast</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-DL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/32 W TC-TL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>2/18 W TC-DL, G24 q-2</td>
<td>100/200</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DL, G24 q-3</td>
<td>100/200</td>
<td>0.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PANOS LF 200 with electronic ballast</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-DL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/32 W TC-TL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>2/18 W TC-DL, G24 q-2</td>
<td>100/200</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DL, G24 q-3</td>
<td>100/200</td>
<td>0.9</td>
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<table>
<thead>
<tr>
<th>PANOS LF 250 with dimmable electr. ballast</th>
<th>Order no.</th>
<th>Order no.</th>
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</thead>
<tbody>
<tr>
<td>1/32 W TC-TL, G24 q-3</td>
<td>100/250</td>
<td>0.9</td>
</tr>
<tr>
<td>1/42 W TC-TL, G24 q-4</td>
<td>100/250</td>
<td>0.9</td>
</tr>
<tr>
<td>1/57 W TC-TL, G24 q-5</td>
<td>100/250</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DL, G24 q-3</td>
<td>100/250</td>
<td>1.0</td>
</tr>
<tr>
<td>2/32 W TC-TL, G24 q-3</td>
<td>100/250</td>
<td>1.0</td>
</tr>
<tr>
<td>2/42 W TC-DL, G24 q-4</td>
<td>100/250</td>
<td>1.0</td>
</tr>
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</table>

**DIMSAVE** dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim2save
PANOS LG 175/200/250 with smooth optic

- Symmetrical wide-angle beam with high efficiency level
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR 16/19 when fitted with radial louvre attachment (see cover elements)

PANOS LG 175 with dimmable electr. ballast
dimmable Dali
dim²save

<table>
<thead>
<tr>
<th>W</th>
<th>TC-DEL</th>
<th>224 q-2</th>
<th>100/175</th>
<th>0.8</th>
<th>62 900 003</th>
<th>62 904 147</th>
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<tbody>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
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<td>1/26 W TC-DEL, G24 q-3</td>
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<td>62 900 017</td>
<td>62 904 148</td>
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PANOS LG 175 with electronic ballast

electronic

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<thead>
<tr>
<th>W</th>
<th>TC-DEL</th>
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PANOS LG 200 with dimmable electr. ballast
dimmable Dali
dim²save

<table>
<thead>
<tr>
<th>W</th>
<th>TC-DEL</th>
<th>224 q-2</th>
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<td>62 900 054</td>
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<td>62 904 152</td>
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PANOS LG 200 with electronic ballast

electronic

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<td>60 810 102</td>
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<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
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PANOS LG 250 with dimmable electr. ballast
dimmable Dali
dim²save

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<th>100/250</th>
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<th>62 900 086</th>
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<tbody>
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<td>62 900 100</td>
<td>62 904 154</td>
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<td>2/26 W TC-DEL, G24 q-3</td>
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<td>1.0</td>
<td>62 900 109</td>
<td>62 904 155</td>
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PANOS LG 250 with electronic ballast

electronic

<table>
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<tr>
<th>W</th>
<th>TC-TEL</th>
<th>224 q-3</th>
<th>100/250</th>
<th>0.9</th>
<th>60 810 106</th>
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</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>100/250</td>
<td>0.9</td>
<td>60 810 110</td>
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</tr>
<tr>
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<td>60 810 114</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
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<td>60 810 118</td>
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14 W or 17 W versions available on request.
PANOS LM 175/200/250 with matt optic

- Matt reflector with smooth aluminium-look finish

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Wattage</th>
<th>Wattage Reduction</th>
<th>Dimmable</th>
<th>Order No.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS LM 175 with dimmable electr. ballast</td>
<td>dimmable Dali</td>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>100/175</td>
<td>0.8</td>
<td>62 900 005</td>
<td>62 904 156</td>
</tr>
<tr>
<td>PANOS LM 175 with electronic ballast</td>
<td>electronic</td>
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<td>100/175</td>
<td>0.8</td>
<td>60 810 056</td>
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</tr>
<tr>
<td>PANOS LM 200 with dimmable electr. ballast</td>
<td>dimmable Dali</td>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
<td>62 900 011</td>
<td></td>
</tr>
<tr>
<td>PANOS LM 200 with electronic ballast</td>
<td>electronic</td>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
<td>60 810 060</td>
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<tr>
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<td>1/18 W TC-TEL, G24 q-2</td>
<td>100/200</td>
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<tr>
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<td>100/250</td>
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<td>100/250</td>
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<tr>
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<td>1/32 W TC-TEL, G24 q-3</td>
<td>100/250</td>
<td>0.9</td>
<td>60 810 112</td>
<td></td>
</tr>
</tbody>
</table>

14 W or 17 W versions available on request.

**DOWNLIGHTS**

dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim²save
PANOS LL 175/200/250 with white optic

- ...]
- White reflector, smooth

<table>
<thead>
<tr>
<th>Model</th>
<th>Wattage</th>
<th>Tubular Code</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>PANOS LL 175 with digitally dimmable elec. ballast</td>
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<td>1/18 W TC-TEL, G24 q-2</td>
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<td>0.8</td>
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<td>1/26 W TC-DEL, G24 q-3</td>
<td>100/175</td>
<td>0.9</td>
</tr>
<tr>
<td>PANOS LL 175 with digitally dimmable elec. ballast</td>
<td>2/13 W TC-DEL, G24 q-1</td>
<td>100/175</td>
<td>0.8</td>
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<td>PANOS LL 200 with digitally dimmable electr. ballast</td>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>PANOS LL 200 with digitally dimmable electr. ballast</td>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>100/200</td>
<td>0.8</td>
</tr>
<tr>
<td>PANOS LL 250 with digitally dimmable electr. ballast</td>
<td>1/32 W TC-DEL, G24 q-3</td>
<td>100/250</td>
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<tr>
<td>PANOS LL 250 with digitally dimmable electr. ballast</td>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>100/250</td>
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<tr>
<td>PANOS LL 250 with electronically controlled ballast</td>
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<td>100/250</td>
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<td>100/250</td>
<td>0.9</td>
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</table>

14 W or 17 W versions available on request.

![Diagram of PANOS LL 175/200/250 with white optic]
### PANOS H system overview

Printed in grey: feasible, but cannot be ordered as standard!

#### Distribution characteristics
- **LED**
  - wide-angle
  - wallwasher

#### LED
- **LED**

#### Compact fluorescent lamps (TC-TEL, TC-DEL)

<table>
<thead>
<tr>
<th>Wattage</th>
<th>1/13 W</th>
<th>1/15 W</th>
<th>1/18 W</th>
<th>1/26 W</th>
<th>1/32 W</th>
<th>1/42 W</th>
<th>1/42 W with metal head</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>1/32 W</td>
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<td>✔</td>
<td>✔</td>
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</tr>
<tr>
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#### Compact fluorescent lamps (TC-TELI)

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<th>1/32 W</th>
<th>1/42 W</th>
<th>1/42 W with metal head</th>
<th>1/57 W with metal head</th>
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<tr>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
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<td>1/42 W with metal head</td>
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<tr>
<td>1/57 W with metal head</td>
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<td>✔</td>
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</tr>
</tbody>
</table>

#### IP 54 kit
- clear glass
- structured glass
- opal glass

#### Decorative elements
- glass elem., clear, frosted centre
- glass elem., clear, frosted outer ring
- glass elem., frosted, screw-fastened
- rings, clear, frosted or blue

#### Other attachment elements
- Anti-glare cone
- Cruciform louvre
- Polygonal louvre
- Information signs

#### Accessories
- Concrete casting surround
- Ceiling reinforcing ring
- Retrofit ring
- Plaster ring
- Panel plates
- Planar ring

---

**PANOS H DOWNLIGHTS**

**Printed in grey: feasible, but cannot be ordered as standard!**

**Distribution characteristics**

<table>
<thead>
<tr>
<th><strong>LED</strong></th>
<th><strong>LED</strong></th>
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<tbody>
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**Compact fluorescent lamps (TC-TEL, TC-DEL)**

<table>
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<th>1/13 W</th>
<th>1/15 W</th>
<th>1/18 W</th>
<th>1/26 W</th>
<th>1/32 W</th>
<th>1/42 W</th>
<th>1/42 W with metal head</th>
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<tr>
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</tr>
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**Compact fluorescent lamps (TC-TELI)**

<table>
<thead>
<tr>
<th>Wattage</th>
<th>1/18 W</th>
<th>1/26 W</th>
<th>1/32 W</th>
<th>1/42 W</th>
<th>1/42 W with metal head</th>
<th>1/57 W with metal head</th>
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</thead>
<tbody>
<tr>
<td>1/18 W</td>
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<td>✔</td>
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<td>1/42 W with metal head</td>
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<tr>
<td>1/57 W with metal head</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**IP 54 kit**

- clear glass
- structured glass
- opal glass

**Decorative elements**

- glass elem., clear, frosted centre
- glass elem., clear, frosted outer ring
- glass elem., frosted, screw-fastened
- rings, clear, frosted or blue

**Other attachment elements**

- Anti-glare cone
- Cruciform louvre
- Polygonal louvre
- Information signs

**Accessories**

- Concrete casting surround
- Ceiling reinforcing ring
- Retrofit ring
- Plaster ring
- Panel plates
- Planar ring
PANOS HG LED/HM LED

- Reflector made of high quality UV-resistant polycarbonate
- Mounting/cover ring, white
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection

PANOS HG 150 LED with smooth optic

- Symmetrical wide-angle beam with optimum photometric performance
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- DSE-workstation compatible: UGR < 19
- 50,000 h service life at 70 % luminous flux

- 1/18 W LED, 1100 lm, warm white
- 1/34 W LED, 2000 lm, neutral white
- 1/38 W LED, 2000 lm, warm white
- 1/18 W LED, 1100 lm, neutral white

PANOS HG 150 LED, BIOMOTION with smooth optic

- Colour-temperature adjustment from 2,700 to 6,500 K by DALI signal
- 10 to 100 % adjustment of illuminance level by DALI signal
- RGB (red/green/blue) dynamic colour lighting possible via DALI signal
- Power consumption: 40 W (48 W at end of operating life)
- 1,100 lm projected light at 4,000 K
- Stabilized colour temperature independent of illuminance
- "Cool" light without UV and IR components
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- DSE-workstation compatible: UGR < 19
- 35,000 h service life at 100 % luminous flux

Please note: can only be controlled in combination with Zumtobel EMOTION Touchpanel.
PANOS HM 150 LED with frosted optic

- Symmetrical wide-angle beam with optimum photometric performance
- Matt reflector with smooth aluminium-look finish
- 50,000 h service life at 70 % luminous flux

---

PANOS HM 150 LED, BIOMOTION with frosted optic

- Colour-temperature adjustment from 2,700 to 6,500 K by DALI signal
- 10 to 100 % adjustment of illuminance level by DALI signal
- RGB (red/green/blue) dynamic colour lighting possible via DALI signal
- Power consumption: 40 W (48 W at end of operating life)
- 1,100 lm projected light at 4,000 K
- Stabilized colour temperature independent of illuminance
- “Cool” light without UV and IR components
- Matt reflector with smooth aluminium-look finish
- 35,000 h service life at 100 % luminous flux
- Please note: can only be controlled in combination with Zumtobel EMOTION Touchpanel

---

PANOS HM 150 LED

<table>
<thead>
<tr>
<th>RD/R0</th>
<th>kg</th>
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<th>Order no.</th>
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<tbody>
<tr>
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<tr>
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<td>142/150</td>
<td>2.3</td>
<td>60 812 347</td>
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<tr>
<td>1/18 W LED, 1100 lm, neutral white</td>
<td>142/150</td>
<td>2.3</td>
<td>60 812 346</td>
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<tr>
<td>1/34 W LED, 2000 lm, neutral white</td>
<td>138/150</td>
<td>2.0</td>
<td>60 812 354</td>
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<td>1/38 W LED, 2000 lm, warm white</td>
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<td>2.0</td>
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PANOS HM 150 LED RGB

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<tr>
<td>1/40 W LED RGB</td>
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</tbody>
</table>
PANOS HL 150 LED with white painted optic

- Symmetrical wide-angle beam with optimum photometric performance
- White reflector, smooth
- 50,000 h service life at 70 % luminous flux

PANOS HL 150 LED

<table>
<thead>
<tr>
<th>RD/R0</th>
<th>kg</th>
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<tbody>
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<tr>
<td>1/38 W LED, 2000 lm, warm white</td>
<td>138/150</td>
<td>2.0</td>
<td>60 812 357</td>
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</table>

PANOS HL 150 LED, BIOMOTION with white painted optic

- Colour-temperature adjustment from 2,700 to 6,500 K by DALI signal
- 10 to 100 % adjustment of illuminance level by DALI signal
- RGB (red/green/blue) dynamic colour lighting possible via DALI signal
- Power consumption: 40 W (48 W at end of operating life)
- 1,100 lm projected light at 4,000 K
- Stabilized colour temperature independent of illuminance
- “Cool” light without UV and IR components
- White reflector, smooth
- 35,000 h service life at 100 % luminous flux
- Please note: can only be controlled in combination with Zumtobel EMOTION Touchpanel

PANOS HL 150 LED RGB

<table>
<thead>
<tr>
<th>RD/R0</th>
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<tr>
<td>dimmable Dali</td>
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<tr>
<td>1/40 W LED RGB</td>
<td>138/150</td>
<td>2.2</td>
</tr>
</tbody>
</table>

PANOS LED
I..J Shared properties PANOS HG/HM/HL

- Reflector/cover ring unit made of high-quality, UV-resistant polycarbonate
- Cover ring, white
- Horizontal lamp position
- Complete model comprises luminaire and ballast unit
- S-pole terminal with plug-in connection

- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector/cover-ring unit by means of bayonet fixing
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- IP 54 possible using accessories
- Models with 1-hour or 3-hour emergency lighting available on request

PANOS HF 175/200/250 with faceted optic

- I..J

- Symmetrical wide-angle beam with optimum photometric performance
- Facetted reflector: highly-reflective alumminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR: 16/19
- With 2/42 W or 1/57 W, TC-TELI reflector head made of aluminium

<table>
<thead>
<tr>
<th>PANOS HF 175 with dimmable electr. ballast</th>
<th>dimmable Dali</th>
<th>dim/save</th>
</tr>
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<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
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<td>0.8</td>
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<td>1/18 W TC-TEL, G24 q-2</td>
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<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
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<td>0.9</td>
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<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
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<table>
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<tr>
<th>PANOS HF 175 with electronic ballast</th>
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<tbody>
<tr>
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<th>dimmable Dali</th>
<th>dim/save</th>
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<tbody>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
<td>0.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PANOS HF 200 with electronic ballast</th>
<th>electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
</tr>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>145/200</td>
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<td>145/200</td>
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<td>145/200</td>
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<td>145/200</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PANOS HF 250 with dimmable electr. ballast</th>
<th>dimmable Dali</th>
<th>dim/save</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
<td>1.0</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>190/250</td>
<td>1.0</td>
</tr>
<tr>
<td>1/57 W TC-TEL, GX24 q-5</td>
<td>190/250</td>
<td>1.0</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>190/250</td>
<td>1.1</td>
</tr>
<tr>
<td>2/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
<td>1.1</td>
</tr>
<tr>
<td>2/42 W TC-TEL, G24 q-4</td>
<td>190/250</td>
<td>1.1</td>
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</table>

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<tbody>
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<tr>
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</tr>
<tr>
<td>1/57 W TC-TEL, GX24 q-5</td>
<td>190/250</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>190/250</td>
</tr>
<tr>
<td>2/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
</tr>
<tr>
<td>2/42 W TC-TEL, G24 q-4</td>
<td>190/250</td>
</tr>
</tbody>
</table>

14 W or 17 W versions available on request.
PANOS HG

PANOS H

- Symmetrical wide-angle beam with optimum photometric performance
- Smooth reflector; highly reflective aluminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR: 16/19

**PANOS HG 175/200/250 with smooth optic**

**TC-DEL**

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>2/13 W TC-DEL, G24 q-1</td>
<td>120/175</td>
<td>0.9</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>120/175</td>
<td>0.9</td>
</tr>
<tr>
<td>2/18 W TC-TEL, G24 q-2</td>
<td>120/175</td>
<td>0.9</td>
</tr>
</tbody>
</table>

**PANOS HG 175 with dimmable electr. ballast**

- dimmable Dali

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>120/175</td>
<td>0.8</td>
</tr>
<tr>
<td>2/13 W TC-DEL, G24 q-1</td>
<td>120/175</td>
<td>0.9</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>120/175</td>
<td>0.9</td>
</tr>
<tr>
<td>2/18 W TC-TEL, G24 q-2</td>
<td>120/175</td>
<td>0.9</td>
</tr>
</tbody>
</table>

**PANOS HG 200 with dimmable electr. ballast**

- dimmable Dali

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>145/200</td>
<td>0.8</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
<td>0.9</td>
</tr>
</tbody>
</table>

**PANOS HG 200 with electronic ballast**

- electronic

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>145/200</td>
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<td>145/200</td>
<td>0.9</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>145/200</td>
<td>0.9</td>
</tr>
</tbody>
</table>

**PANOS HG 250 with dimmable electr. ballast**

- dimmable Dali

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
<td>1.0</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>190/250</td>
<td>1.0</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>190/250</td>
<td>1.1</td>
</tr>
<tr>
<td>2/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
<td>1.1</td>
</tr>
</tbody>
</table>

**PANOS HG 250 with electronic ballast**

- electronic

<table>
<thead>
<tr>
<th>Power</th>
<th>Order no.</th>
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<tbody>
<tr>
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<td>1.1</td>
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<tr>
<td>2/32 W TC-TEL, G24 q-3</td>
<td>190/250</td>
<td>1.1</td>
</tr>
</tbody>
</table>

14 W or 17 W versions available on request.
**PANOS HM 175/200/250 with matt optic**

- Matt reflector with smooth aluminium look finish

---

### PANOS HM 175 with dimmable electr. ballast

<table>
<thead>
<tr>
<th>Model</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>62 900 066</td>
<td></td>
</tr>
<tr>
<td>1/17 W TC-DEL, G24 q-1</td>
<td>62 900 018</td>
<td></td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>62 904 134</td>
<td></td>
</tr>
<tr>
<td>2/13 W TC-DEL, G24 q-1</td>
<td>62 900 042</td>
<td></td>
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</table>

### PANOS HM 175 with electronic ballast

<table>
<thead>
<tr>
<th>Model</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>60 810 189</td>
</tr>
<tr>
<td>1/17 W TC-DEL, G24 q-1</td>
<td>60 810 189</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-2</td>
<td>62 904 133</td>
</tr>
</tbody>
</table>

### PANOS HM 175 with dimmable electr. ballast

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>62 900 066</td>
</tr>
<tr>
<td>1/17 W TC-DEL, G24 q-1</td>
<td>62 900 018</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>62 904 134</td>
</tr>
<tr>
<td>2/13 W TC-DEL, G24 q-1</td>
<td>62 900 042</td>
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### PANOS HM 175 with electronic ballast

<table>
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<tr>
<th>Model</th>
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<tbody>
<tr>
<td>1/13 W TC-DEL, G24 q-1</td>
<td>60 810 189</td>
</tr>
<tr>
<td>1/17 W TC-DEL, G24 q-1</td>
<td>60 810 189</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-2</td>
<td>62 904 133</td>
</tr>
</tbody>
</table>

### PANOS HM 175 with dimmable electr. ballast

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<td>1/13 W TC-DEL, G24 q-1</td>
<td>62 900 066</td>
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<tr>
<td>1/17 W TC-DEL, G24 q-1</td>
<td>62 900 018</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>62 904 134</td>
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<td>2/13 W TC-DEL, G24 q-1</td>
<td>62 900 042</td>
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<td>60 810 189</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-2</td>
<td>62 904 133</td>
</tr>
</tbody>
</table>

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### PANOS HM 200 with dimmable electr. ballast

<table>
<thead>
<tr>
<th>Model</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>62 900 129</td>
</tr>
<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>62 900 082</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>62 900 082</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-4</td>
<td>62 900 084</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>60 810 241</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>60 810 241</td>
</tr>
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</table>

### PANOS HM 200 with electronic ballast

<table>
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<tr>
<th>Model</th>
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<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>60 810 241</td>
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<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>60 810 241</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-4</td>
<td>60 810 244</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>60 810 244</td>
</tr>
</tbody>
</table>

### PANOS HM 200 with dimmable electr. ballast

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<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>62 900 129</td>
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<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>62 900 082</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>62 900 082</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-4</td>
<td>62 900 084</td>
</tr>
<tr>
<td>2/18 W TC-DEL, G24 q-2</td>
<td>60 810 241</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>60 810 241</td>
</tr>
</tbody>
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### PANOS HM 200 with electronic ballast

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<tbody>
<tr>
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<td>60 810 241</td>
</tr>
<tr>
<td>1/26 W TC-DEL, G24 q-3</td>
<td>60 810 241</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-4</td>
<td>60 810 244</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>60 810 244</td>
</tr>
</tbody>
</table>

### PANOS HM 250 with dimmable electr. ballast

<table>
<thead>
<tr>
<th>Model</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>62 900 106</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>62 900 119</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>62 900 119</td>
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</table>

### PANOS HM 250 with electronic ballast

<table>
<thead>
<tr>
<th>Model</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>60 810 264</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>60 810 269</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>60 810 274</td>
</tr>
</tbody>
</table>

14 W or 17 W versions available on request.

---

**dim²save**: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim²save
### PANOS HL 175/200/250 with white painted optic

- White reflector, smooth

### PANOS HL 175 with digitally dimmable electr. ballast

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Lamp Type</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/13 W</td>
<td>TC-DEL, G24 q-1</td>
<td>120/175 0.8 62 900 002</td>
</tr>
<tr>
<td>1/18 W</td>
<td>TC-DEL, G24 q-2</td>
<td>120/175 0.8 62 900 016</td>
</tr>
<tr>
<td>1/18 W</td>
<td>TC-TEL, G24 q-2</td>
<td>120/175 0.8 62 900 024</td>
</tr>
<tr>
<td>2/13 W</td>
<td>TC-DEL, G24 q-1</td>
<td>120/175 0.9 62 900 041</td>
</tr>
<tr>
<td>2/18 W</td>
<td>TC-DEL, G24 q-2</td>
<td>120/175 0.9 62 900 049</td>
</tr>
</tbody>
</table>

### PANOS HL 175 with electronic ballast

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Lamp Type</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/13 W</td>
<td>TC-DEL, G24 q-1</td>
<td>120/175 0.8 60 810 188</td>
</tr>
<tr>
<td>1/18 W</td>
<td>TC-DEL, G24 q-2</td>
<td>120/175 0.8 60 810 193</td>
</tr>
<tr>
<td>1/18 W</td>
<td>TC-TEL, G24 q-2</td>
<td>120/175 0.8 60 810 198</td>
</tr>
<tr>
<td>1/26 W</td>
<td>TC-TEL, G24 q-3</td>
<td>120/175 0.9 60 810 203</td>
</tr>
</tbody>
</table>

### PANOS HL 200 with electronic ballast

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Lamp Type</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/13 W</td>
<td>TC-DEL, G24 q-1</td>
<td>145/200 0.8 62 900 060</td>
</tr>
<tr>
<td>2/18 W</td>
<td>TC-DEL, G24 q-2</td>
<td>145/200 0.9 62 900 090</td>
</tr>
<tr>
<td>1/26 W</td>
<td>TC-DEL, G24 q-3</td>
<td>145/200 0.9 60 810 253</td>
</tr>
</tbody>
</table>

### PANOS HL 200 with digitally dimmable electr. ballast

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Lamp Type</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>1/26 W</td>
<td>TC-DEL, G24 q-3</td>
<td>145/200 0.8 62 900 080</td>
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<td>TC-TEL, G24 q-3</td>
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### PANOS HL 250 with digitally dimmable electr. ballast

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<th>Wattage</th>
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<tbody>
<tr>
<td>1/32 W</td>
<td>TC-TEL, G24 q-3</td>
<td>190/250 1.0 62 900 105</td>
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<td>TC-TEL, G24 q-4</td>
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### PANOS HL 250 with electronic ballast

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<tr>
<td>1/32 W</td>
<td>TC-TEL, G24 q-3</td>
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14 W or 17 W versions available on request.

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### Söllner CIE DIN Nominal Illuminance (lx)

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<td>750</td>
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<tr>
<td>LG7</td>
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### Angle of light emission

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### Classification

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### PANOS HL 175/200/250

- [Image of PANOS HL 175/200/250 with white painted optic]

- PANOS HL 175/200/250 with white painted optic is available.

- Technical specifications include:
  - Wattage
  - Lamp Type
  - Order number

- Dimensions:
  - Ø 175/200/250

- Technical drawings and diagrams are included in the document.

---

### PANOS HL 175/200/250

- [Image of PANOS HL 175/200/250]

- Technical specifications include:
  - Wattage
  - Lamp Type
  - Order number

- Dimensions:
  - Ø 175/200/250

- Technical drawings and diagrams are included in the document.
**PANOS HWW**

**PANOS HWW 175/200/250 with wallwasher optic**

- Downlight component with additional asymmetric light distribution for wall illumination and picture accentuation
- Wallwasher reflector; highly specular, aluminium finish with partial flattening giving zero iridescence
- Horizontal lamp position
- Cover ring, white
- Reflector/cover ring unit made of high-quality, UV-resistant polycarbonate
- With 2/42 W or 1/57 W, TC-TELI reflector head made of aluminium
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector/cover-ring unit by means of bayonet fixing
- Models with 1-hour or 3-hour emergency lighting available on request

**PANOS HWW 175 with digitally dimmable electr. ballast**

- dimmable Dali
- 1/13 W TC-DEL, G24 q-1
  - 120/175
  - 0.8
  - 62 900 008
- 1/18 W TC-DEL, G24 q-2
  - 120/175
  - 0.8
  - 62 900 019
- 1/18 W TC-TEL, G24 q-3
  - 120/175
  - 0.8
  - 62 900 028
- 2/13 W TC-DEL, G24 q-1
  - 120/175
  - 0.9
  - 62 900 043
- 2/18 W TC-DEL, G24 q-2
  - 120/175
  - 0.9
  - 62 900 052

**PANOS HWW 200 with digitally dimmable electr. ballast**

- dimmable Dali
- 1/26 W TC-DEL, G24 q-3
  - 120/175
  - 0.8
  - 62 900 064
- 1/32 W TC-TEL, G24 q-3
  - 145/200
  - 0.8
  - 62 900 072
- 1/32 W TC-TEL, G24 q-2
  - 145/200
  - 0.8
  - 62 900 079
- 1/26 W TC-DEL, G24 q-3
  - 145/200
  - 0.8
  - 62 900 085
- 1/26 W TC-TEL, G24 q-3
  - 145/200
  - 0.8
  - 62 900 092
- 1/26 W TC-DEL, G24 q-2
  - 145/200
  - 0.9
  - 62 900 099
- 2/18 W TC-DEL, G24 q-2
  - 145/200
  - 0.9
  - 62 900 108
- 2/26 W TC-DEL, G24 q-3
  - 145/200
  - 0.9
  - 62 900 116
- 2/32 W TC-TEL, G24 q-3
  - 145/200
  - 0.9
  - 62 900 125
- 1/26 W TC-DEL, G24 q-3
  - 190/250
  - 1.0
  - 62 900 100
- 1/32 W TC-TEL, G24 q-3
  - 190/250
  - 1.0
  - 62 900 116
- 1/57 W TC-TEL, G24 q-5
  - 190/250
  - 1.0
  - 62 900 118
- 2/26 W TC-DEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 120
- 2/32 W TC-TEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 125

**PANOS HWW 250 with digitally dimmable electr. ballast**

- dimmable Dali
- 1/32 W TC-TEL, G24 q-3
  - 190/250
  - 1.0
  - 62 900 250
- 1/42 W TC-TEL, G24 q-4
  - 190/250
  - 1.0
  - 62 900 265
- 1/32 W TC-TEL, G24 q-5
  - 190/250
  - 1.0
  - 62 900 270
- 1/26 W TC-TEL, G24 q-3
  - 190/250
  - 1.0
  - 62 900 313
- 1/26 W TC-TEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 315
- 1/26 W TC-DEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 316
- 1/32 W TC-TEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 325
- 1/42 W TC-TEL, G24 q-4
  - 190/250
  - 1.1
  - 62 900 330
- 1/42 W TC-TEL, G24 q-4
  - 190/250
  - 1.1
  - 62 900 332
- 1/57 W TC-TEL, G24 q-5
  - 190/250
  - 1.1
  - 62 900 334
- 2/32 W TC-TEL, G24 q-3
  - 190/250
  - 1.1
  - 62 900 336
- 2/42 W TC-TEL, G24 q-4
  - 190/250
  - 1.1
  - 62 900 340
### Overview 1

**PANOS M / MWW**

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<th>Lights</th>
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<th>Pano GT</th>
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</table>

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### Distribution characteristics

- narrow-beam
- wide-angle
- swivelling
- wallwasher

### Compact fluorescent lamps (TC-TELI, TC-TEL, TC-DEL)

- 1/18 W
- 1/26 W

### Metal halide lamps

- HIT-TC-CE PG5 35 W
- HIT-TC-CE GU6.5 35 W
- HIT-TC-CE G8.5 35 W
- HIT-TC-CE G8.5 70 W
- HIT-CE G12 150 W
- HIPAR30 70 W

### Sodium halide lamps

- HST 100 W

### Mercury-vapour lamps

- HME 50 W

### Low-voltage halogen lamps

- QT-LP 12 75 W
- QT-LP 12 100 W
- QR-CBC 50 W
- QR111

### High-voltage halogen lamps

- QT2 100 W

### Halogen incandescent lamps

- QPAR/QR-CB 16 50 W
- QPAR/QR-CB 20 50 W
- QPAR/QR-CB 30 100 W

### IP 54 kits

- clear glass
- structured glass
- opal glass

### Decorative attachments

- Glass ALHENA

### Accessories

- Concrete casting surround
### Overview 2

#### PANOS M / MWW

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</table>
PANOS M

I...J Shared properties PANOS M LG/LM

- Symmetrical wide-angle beam with optimum luminous efficiency achieved specifically at high wattages
- Ideal where ceiling space is limited: recessed depth just 100 mm
- Light-tight luminaire housing in ceiling
- Mounting/cover ring, white
- Horizontal lamp position

- Suitable for use with a sealed panel (e.g. IP 54 covers) for any wattage
- Low fire load
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- Models with 1-hour or 3-hour emergency lighting available on request
- Other dimmable versions available on request

PANOS M LG 200/250 TC-TEL / TC-DEL

- I...J
- Smooth metal reflector; highly reflective aluminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR 16/19 when fitted with radial louvre attachment (see cover elements)

PANOS M LG 200 with dimmable electr. ballast
dimmable Dali
dim²save 2/26 W TC-DEL, G24 q-3
100/200 1.5 62 903 126 62 904 171
PANOS M LG 200 with electronic ballast
electronic 1/18 W TC-DEL, G24 q-2
100/200 1.4 60 810 685
1/18 W TC-TEL/TELI, G24 q-2
100/200 1.4 60 810 686
1/26 W TC-DEL, G24 q-3
100/200 1.4 60 810 691
1/26 W TC-TEL/TELI, G24 q-3
100/200 1.4 60 810 692
1/26 W TC-DEL, G24 q-3
100/200 1.5 60 810 686
1/26 W TC-TEL/TELI, G24 q-3
100/200 1.5 60 810 688
PANOS M LG 250 with dimmable electr. ballast
dimmable Dali
dim²save 2/32 W TC-TEL/TELI, G24 q-3
100/250 1.7 62 903 183 62 904 172
2/42 W TC-TEL/TELI, G24 q-4
100/250 1.7 62 902 828 62 904 173
PANOS M LG 250 with electronic ballast
electronic 1/32 W TC-TEL/TELI, G24 q-3
100/250 1.6 60 810 707
1/32 W TC-TEL/TELI, G24 q-3
100/250 1.7 60 810 707
1/42 W TC-TEL/TELI, G24 q-3
100/250 1.6 60 810 711
1/42 W TC-TEL/TELI, G24 q-3
100/250 1.7 60 810 706
2/26 W TC-DEL, G24 q-3
100/250 1.7 60 810 708
2/26 W TC-DEL, G24 q-3
100/250 1.7 60 810 710
PANOS M LM 200/250 TC-TEL / TC-DEL

- Metal matt reflector, with aluminium-look finish

---

PANOS M LM 200 with dimmable electr. ballast
2/26 W TC-DEL, G24 q-3
100/200 1.5
Order no. 62 903 126
Order no. 62 904 174

dimmable Dali
dimm²save

PANOS M LM 200 with electronic ballast
electronic
1/18 W TC-DEL, G24 q-2
100/200 1.4
Order no. 62 904 174

PANOS M LM 250 with dimmable electr. ballast
dimmable Dali
dimm²save
2/32 W TC-TEL/TELI, G24 q-3
100/250 1.7
Order no. 62 902 828
Order no. 62 904 176

PANOS M LM 250 with electronic ballast
electronic
1/32 W TC-TEL/TELI, G24 q-3
100/250 1.6
Order no. 60 811 043

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Luminances in cd/m² based on 2400 lm

- 45°: 100
- 55°: 110
- 65°: 110
- 75°: 100
- 85°: 90

---

Utilization Factors

- Room Reflectance Room Index
  - Ceiling: 0.75
  - Walls: 1.00
  - Floor: 1.25
  - 1.50
  - 2.00
  - 2.50
  - 3.00
  - 4.00
  - 5.00

---

SHR Nom = 1.50
SHR Max = 1.66
SHR Max TR = 1.90

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ZUMTOBEL

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dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim2save
PANOS M

I. I. Shared properties PANOS M HG/HM

- Symmetrical wide-angle beam with optimum photometric performance and good luminous efficiency specifically at high wattages
- Light-tight luminaire housing in ceiling
- Mounting/cover ring, white
- Horizontal lamp position
- Suitable for use with a sealed panel (e.g. IP 54 covers) for any wattage
- Low fire load
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- Models with 1-hour or 3-hour emergency lighting available on request
- Other dimmable versions available on request

PANOS M LG 200/250 TC-TEL / TC-DEL

- Smooth metal reflector; highly reflective aluminised finish for zero iridescence
- Suitable for use with VDT workstations; UGR: 16/19

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<thead>
<tr>
<th>PANOS M LG 200/250</th>
<th>HD/TR</th>
<th>kg</th>
<th>Order no.</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>150/200</td>
<td>1.6</td>
<td>62 901 263</td>
<td>62 904 165</td>
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<tr>
<td>1/18 W TC-DEL, G24 q-2</td>
<td>150/200</td>
<td>1.5</td>
<td>60 810 671</td>
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<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>150/200</td>
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<td>190/250</td>
<td>1.9</td>
<td>62 901 331</td>
<td>62 904 167</td>
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<tr>
<td>1/32 W TC-TEL/TELI, G24 q-3</td>
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<td>1.8</td>
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<td>1/42 W TC-TEL/TELI, G24 q-4</td>
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**PANOS M 200/250 TC-TEL / TC-DEL**

- Smooth reflector made of highest grade aluminium, highly specular finish, iridescent-free
- Vertical lamp position
- Mounting ring, white
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit by means of bayonet fixing
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- Models with 1-hour or 3-hour emergency lighting available on request

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**PANOS M 150/200/250 TC-TEL**

- Metal matt reflector, with aluminium look finish

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**PANOS M HM 200 with dimmable electr. ballast**

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<tbody>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
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<td>1.6</td>
<td>62 903 936</td>
<td>62 904 168</td>
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**PANOS M HM 200 with electronic ballast**

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<td>1/18 W TC-DEL, G24 q-2</td>
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<td>150/200</td>
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**PANOS M HM 250 with dimmable electr. ballast**

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<td>2/32 W TC-TEL/TELI, G24 q-3</td>
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<td>1.9</td>
<td>62 902 514</td>
<td>62 904 170</td>
</tr>
</tbody>
</table>

**PANOS M HM 250 with electronic ballast**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL/TELI, G24 q-3</td>
<td>190/250</td>
<td>1.8</td>
<td>60 811 003</td>
</tr>
<tr>
<td>1/42 W TC-TEL/TELI, G24 q-4</td>
<td>190/250</td>
<td>1.8</td>
<td>60 811 035</td>
</tr>
<tr>
<td>1/57 W TC-TEL, G24 q-5</td>
<td>190/250</td>
<td>1.8</td>
<td>60 811 037</td>
</tr>
<tr>
<td>2/26 W TC-DEL, G24 q-3</td>
<td>190/250</td>
<td>1.9</td>
<td>60 811 031</td>
</tr>
<tr>
<td>2/26 W TC-TEL/TELI, G24 q-3</td>
<td>190/250</td>
<td>1.9</td>
<td>60 811 032</td>
</tr>
<tr>
<td>2/32 W TC-TEL/TELI, G24 q-3</td>
<td>190/250</td>
<td>1.9</td>
<td>60 811 034</td>
</tr>
<tr>
<td>2/42 W TC-TEL/TELI, G24 q-4</td>
<td>190/250</td>
<td>1.9</td>
<td>60 811 036</td>
</tr>
</tbody>
</table>

---

**PANOS M 150 with electr. ballast**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>215/150</td>
<td>0.8</td>
<td>60 810 467</td>
<td></td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>215/150</td>
<td>0.8</td>
<td>60 810 468</td>
<td>62 904 225</td>
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</tbody>
</table>

**PANOS M 150 with electronic ballast**

<table>
<thead>
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<th>Model</th>
<th>Power</th>
<th>Code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL, G24 q-2</td>
<td>215/150</td>
<td>0.8</td>
<td>60 810 341</td>
</tr>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>215/150</td>
<td>0.8</td>
<td>60 810 343</td>
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</tbody>
</table>

**PANOS M 200 with electr. ballast**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 469</td>
<td></td>
</tr>
<tr>
<td>1/32 W TC-TEL, G24 q-4</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 470</td>
<td>62 904 226</td>
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<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 471</td>
<td>62 904 227</td>
</tr>
</tbody>
</table>

**PANOS M 200 with electronic ballast**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/26 W TC-TEL, G24 q-3</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 354</td>
</tr>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 355</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>260/200</td>
<td>0.9</td>
<td>60 810 358</td>
</tr>
</tbody>
</table>

**PANOS M 250 with electr. ballast**

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>285/250</td>
<td>1.1</td>
<td>60 810 472</td>
<td></td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>285/250</td>
<td>1.1</td>
<td>60 810 473</td>
<td></td>
</tr>
</tbody>
</table>

**PANOS M 250 with electronic ballast**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Code</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 W TC-TEL, G24 q-3</td>
<td>285/250</td>
<td>1.1</td>
<td>60 810 366</td>
</tr>
<tr>
<td>1/42 W TC-TEL, G24 q-4</td>
<td>285/250</td>
<td>1.1</td>
<td>60 810 368</td>
</tr>
</tbody>
</table>

---

**Notes**

- **dimmable ballast** – controlled by momentary-action switch (switchDIM) or DMLITE. For more information see: www.zumtobel.com/dimmable
**PANOS M-V 100 QR-CBC 51 / QT-LP 12 / HIT-TC-CE**

-/shared properties PANOS M 100/150/200/250
- null
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit by means of bayonet fixing

**PANOS M-D 100 QR-CBC 51 / QT-LP 12 / HIT-TC-CE**

-/shared properties PANOS M 100/150/200/250
- null
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit by means of bayonet fixing
PANOS M 100 PAR / QR-CBC 51 / QT12

- L...L
  - Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
  - Vertical lamp position
  - PAR/QR-CBC: smooth anti-glare reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
  - Mounting ring, white
  - PAR16/PAR20 mains voltage: 230 V, connection: 3-pole plug-in terminal
  - QT-LP12/QR-CBC lamp voltage: 12 V, please order transformer separately
  - Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
  - Concrete casting surrounds: QT12 up to 90 W max.

PANOS M 100 HIT-TC-CE

- L...L
  - Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
  - Vertical lamp position
  - With internal protective glass panel
  - Mounting ring, white
  - Connecting cable with 3-pole Wieland plug, please order ballast separately
  - Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
  - HIT-TC-CE G8.5 may only be operated using electronic ballast
  - HIT-TC-CE PGJ5 must only be operated with electronic ballast 60 800 292/507

PANOS M 100 for PAR/LV lamps
1/50 W PAR 16 GU10 / PAR-CB 16 GZ10
1/50 W PAR 20 / PAR-CB 20 E27
1/50 W QR-CBC 51 GU5.3
1/100 W QT-LP 12 GY6.35

PAR / QR-CBC: anti-glare reflector.
Please order transformer separately.

PANOS M 100 for metal halide lamp
1/20 W or 1/35 W HIT-TC-CE PGJ5
1/35 W HIT-TC-CE G8.5

Accessory
Electronic ballast HIT 20 W (for HIT-TC-CE PGJ5)
Electronic ballast HIT 35 W (f. HIT-TC-CE PGJ5)
Lamp HIT-TC-CE 20 W PGJ5 (PHILIPS CDM-Tm)
Lampe HIT-TC-CE 35 W PGJ5 (PHILIPS CDM-Tm)
Blocking filter UVA (HIT-TC-CE G8.5)
**PANOS M-V 150 QR111 / QT12 / HIT-TC-CE**

- 2-part smooth polycarbonate reflector, aluminised finish; patterned head section made of ultra-pure aluminium, anodised in a bright satin finish, silver-look, low iridescence
- QR111 version: smooth polycarbonate anti-glare reflector in silver-look aluminised finish
- Luminaire head can pivot through 360° and tilt internally through 30°
- Tilt angle fixed manually
- Centred luminous flux in all tilt positions
- Vertical lamp position
- HIT-TC-CE version: optimum Darklight characteristic of reflector achieved when glass cover is set back
- Flat ceiling ring, white
- Electrical connection: 2-pole terminal
- HIT-TC-CE: connecting lead with 3-pin Wieland plug; please order electronic ballast separately
- QR111 lampholder: 6.3 flat terminal
- HIT-TC-CE: connecting lead with electrical connection: 2-pole terminal
- Flat ceiling ring, white
- HIT-TC-CE version: optimum Darklight characteristic of reflector achieved when glass cover is set back
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp
- 1/90 W QT-LP: only suitable for use with IR/UVA filters up to 75 W max.
- 1/100 W QR 111: not suitable for use with IR UVA filter or oval outline lens

**PANOS M-D 150 QT12 / HIT-TC-CE**

- Smooth Darklight reflector made of highest-grade aluminium, anodised in a bright satin finish, silver-look, low iridescence, extured head section
- Lamp set back for 45° cut-off
- Vertical lamp position
- HIT-TC-CE version: optimum Darklight characteristic of reflector achieved when glass cover is set back
- Flat ceiling ring, white
- Electrical connection: 2-pole terminal
- HIT-TC-CE: connecting lead with 3-pin Wieland plug; please order electronic ballast separately
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp
- 1/70 W HIT-TC-CE: only suitable for use with IR/UVA filters up to 35 W max.
- 1/90 W QT-LP: not suitable for use with IR/UVA filters

---

**PANOS M-V 150 for metal-halide / low-voltage lamps**

<table>
<thead>
<tr>
<th>RD/R0</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>200/150</td>
<td>0.7</td>
<td>60 812 271</td>
</tr>
<tr>
<td>200/150</td>
<td>0.7</td>
<td>60 812 269</td>
</tr>
<tr>
<td>200/150</td>
<td>0.7</td>
<td>60 812 267</td>
</tr>
</tbody>
</table>

**Accessory**

- Oval-outline lens
- Filter IR/UVA

Please order control gear separately.

---

**PANOS M-D 150 for metal-halide / low voltage lamps**

<table>
<thead>
<tr>
<th>RD/R0</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>230/150</td>
<td>0.6</td>
<td>60 812 282</td>
</tr>
<tr>
<td>230/150</td>
<td>0.6</td>
<td>60 812 280</td>
</tr>
</tbody>
</table>

**Accessory**

- IR/UVA blocking filter with white attachment ring

Please order control gear separately.
PANOS M 150 HIPAR / PAR / QT 32

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Vertical lamp position
- PAR/HIPAR: smooth anti-glare reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free
- Mounting ring, white
- PAR30 / PAR38 / QT32 mains voltage: 230 V, connection: 3-pole plug-in terminal
- HIPAR30 connecting cable with 3-pole Wieland plug; please order ballast separately
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory

PANOS M 150 HIPAR / HME / HST

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Vertical lamp position
- HIT-CE with internal protective glass panel
- Mounting ring, white
- HIT-CE/HST connecting cable with 3-pole Wieland plug; please order ballast separately
- HME connection: 3-pole plug-in terminal; please order ballast separately
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- HIT-CE: models can also take 1/70 W HIT-CE lamp
- HST GX12: Philips SDW-TG lamp
- HST GX12 must only be used with an electronic ballast
PANOS M 200 A65 / QT32 / QT-DE

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Vertical lamp position
- QT-DE: with internal protective glass, horizontal lamp position
- Mounting ring, white
- Mains voltage: 230 V, connection: 3-pole plug-in terminal
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- QT-DE 12: contact pitch 114.2 mm to IEC 597

PANOS M 200 HIT-CE / HIT-DE / HME / HST

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Vertical lamp position
- HIT-CE/HIT-DE with internal protective glass panel
- Mounting ring, white
- Connecting cable with 3-pole Wieland plug, please order ballast separately
- HME connection: 3-pole plug-in terminal; please order ballast separately
- HIT-DE: horizontal lamp position
- Please note: When separately ordered attachment elements are used, the holding ring is included in the supply of the accessory
- HIT-CE: models can also take 1/70 W HIT-DE lamp
- HST GX12 must only be used with an electronic ballast

PANOS M 200 for A65 / halogen lamps

- 1/150 W HIT-DE RX7s
- 1/150 W HIT-CE G12
- 1/100 W HST PG12-1
- 1/100 W HST GX12

PANOS M 200 for metal/mercury/sodium vapour lamps

- 1/250 W QT 32 E27
- 200/200
- 1/80 W HIT-DE RX7s
- 180°
- 1/70 W HIT-DE RX7s
- 60°60°

Accessory

- Blocking filter UVA (HIT-DE)
- Blocking filter UVA (HIT-CE G12)
- Blocking filter UVA (HIT-DE)

For more information, please refer to CIBSE Technical Memorandum No. 5 1980.
**PANOS M 250 QT-DE**

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Horizontal lamp position
- With internal protective glass panel
- Mounting ring, white
- Mains voltage: 230 V, connection: 3-pole plug-in terminal
- QT-DE 12: contact pitch 114.2 mm to IEC 357
- Separate attachments must not be used

**PANOS M 250 HIT-DE**

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- Horizontal lamp position
- With internal protective glass panel
- Mounting ring, white
- Connecting cable with 3-pole Wieland plug, please order ballast separately

---

**PANOS M 250 for halogen lamp**

1/300 W QT-DE 12 R7s  
245/250  1.1  60 810 373

**Accessories**

- Blocking filter IR/UVA  
  - 60 800 132
- Blocking filter UVA  
  - 60 800 130

---

**PANOS M 250 for metal vapour lamp**

1/250 W HIT-DE Fc2  
245/250  1.1  60 810 365

**Accessories**

- Blocking filter IR/UVA  
  - 60 800 132
- Blocking filter UVA  
  - 60 800 130

---
### PANOS MWW 150 wallwasher QT12

- Asymmetrical light distribution
- Mounting ring, white
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm
- No-tool quick installation of reflector unit by means of bayonet fixing

#### PANOS MWW 150 wallwasher for halogen lamps

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 810 497</td>
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</tbody>
</table>

#### PANOS MWW 150 wallwasher for metal halide lamps

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 810 375</td>
</tr>
<tr>
<td>60 810 376</td>
</tr>
</tbody>
</table>

### PANOS MWW 150 wallwasher HIT-TC-CE

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part
- With internal protective glass panel, frosted
- Including electronic ballast
- Mains voltage: 230 V, connection: 3-pole plug-in terminal
- Through-wiring is possible
- Ceiling cut-out: Ø 150 mm

#### PANOS MWW 150 wallwasher for metal halide lamps

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 810 375</td>
</tr>
<tr>
<td>60 810 376</td>
</tr>
</tbody>
</table>

### PANOS MWW 200 wallwasher TC-DEL

- Smooth reflector made of highest grade aluminium, highly specular finish, iridescence-free
- Complete model comprises luminaire and ballast unit
- 5-pole terminal with plug-in connection
- Ceiling cut-out: Ø 200 mm

#### PANOS MWW 200 with electronic ballast, dimmable Dali

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 810 481</td>
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</tbody>
</table>

#### PANOS MWW 200 with electronic ballast

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 810 386</td>
</tr>
</tbody>
</table>
**PANOS MWW 200 wallwasher QT-DE / QT32**

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescent-free, structured upper part
- QT-DE: with internal protective glass panel
- Connecting cable with 3-pole Wieland plug, please order ballast separately
- Ceiling cut-out: Ø 200 mm
- QT-DE 12: contact pitch 114.2 mm to IEC 357

**PANOS MWW 200 wallwasher for halogen lamps**

<table>
<thead>
<tr>
<th>Power</th>
<th>Voltage</th>
<th>Current</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/200 W QT-DE 12 R7s</td>
<td>240/200</td>
<td>0.8</td>
<td>60 810 392</td>
</tr>
<tr>
<td>1/250 W QT 32 E27</td>
<td>240/200</td>
<td>0.8</td>
<td>60 810 393</td>
</tr>
</tbody>
</table>

**PANOS MWW 200 wallwasher HIT-DE / HST**

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescent-free, structured upper part
- HIT-DE: with internal protective glass panel
- Connecting cable with 3-pole Wieland plug, please order ballast separately
- Ceiling cut-out: Ø 200 mm
- HST GX12 must only be used with an electronic ballast
- HST GX12: Philips SDW-TG lamp

**PANOS MWW 200 wallwasher for metal/sodium vapour lamps**

<table>
<thead>
<tr>
<th>Power</th>
<th>Voltage</th>
<th>Current</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/70 W HIT-DE RX7s</td>
<td>240/200</td>
<td>0.8</td>
<td>60 810 388</td>
</tr>
<tr>
<td>1/100 W HST GX12</td>
<td>240/200</td>
<td>0.8</td>
<td>60 810 390</td>
</tr>
<tr>
<td>1/150 W HIT-DE RX7s</td>
<td>240/200</td>
<td>0.8</td>
<td>60 810 389</td>
</tr>
</tbody>
</table>

**Accessory**

- Blocking filter IR/UVA (HIT-DE) 60 800 137
- Blocking filter UVA (HIT-DE) 60 800 133
### PANOS S

**system overview**

<table>
<thead>
<tr>
<th>Distribution characteristics</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>narrow-beam</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>wide-angle</td>
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<td></td>
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<tr>
<td>swiveling</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**LED**

- LED

**Metal halide lamps**

- HIT-TC-CE G8,5 20 W
- HIT-TC-CE G8,5 35 W
- HIT-TC-CE G8,5 70 W
- HIT-CE G12 150 W
- HIT-DE 70 W
- HIT-DE 150 W

**Sodium halide lamps**

- HST 50 W
- HST 100 W

**High-voltage halogen lamps**

- QT-DE12 200 W

**Low-voltage halogen lamps**

- QT-LP 12 75 W
- QT-LP 12 100 W
- QR-CBC 50 W
- QR111 100 W

**Accessories**

- blocking filter
- protective glass
- interference colour filter
- oval outline lens
- honeycomb mesh
**PANOS S 100 LED**

- Tilting housing rotates through 360° and pivots through 40°/60°
- Radiation angle, optionally 15° or 30°
- With built-in PowerLED board unit 3/1 W, 350 mA
- Connecting cable: 0.35 m
- Installed load: approx. 4.5 W
- Protection class I
- Mounting ring, white
- Installation: recessed ring made of die-cast aluminium with spring clips for no-tool recess into ceiling for ceiling thicknesses 1–25 mm

**PANOS S 100 LED recessed directional spotlight**

| Power device 11 W, 350 mA, 220-240 V | 60 010 004 |
| Power device 17 W, 350 mA, 220-240 V | 60 010 005 |

Please order power pack separately.

**Accessory**

| 3/1 W LED 350 mA warm-white (3000 K), flood | 100/100 | 0.3 | 60 811 837 |
| 3/1 W LED 350 mA warm-white (3000 K), spot | 100/100 | 0.3 | 60 811 836 |
| 3/1 W LED 350 mA white (6000 K), flood | 100/100 | 0.3 | 60 811 835 |
| 3/1 W LED 350 mA white (6000 K), spot | 100/100 | 0.3 | 60 811 834 |

**Order no.**

| PANOS S 100 LED recessed directional spotlight | 60 811 837 |
| PANOS S 100 LED recessed directional spotlight | 60 811 836 |
| PANOS S 100 LED recessed directional spotlight | 60 811 835 |
| PANOS S 100 LED recessed directional spotlight | 60 811 834 |
PANOS S 100 recessed directional spotlight QR-CBC 51 / QT12

- Tilting housing rotates through 360° and pivots through 45°/60°
- Structured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
- Rated lamp voltage: 12 V
- Accessories cannot be used with QR-CBC
- QT12: oval-outline lens, glass cover or honeycomb louvre can be used up to 75 W max, filter up to 50 W max.
- Concrete casting surroundings: QT12 up to 90 W max.

PANOS S 150 recessed directional spotlight QT12

- Tilting housing rotates through 360° and pivots through 45°/60°
- Separately adjustable pivoting housing prevents direct view into luminaire
- Structured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
- Rated lamp voltage: 12 V

Please order transformer separately.

PANOS S 100 recessed directional spotlight for LV lamps

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Height (mm)</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100</td>
<td>139</td>
<td>60810402</td>
</tr>
<tr>
<td>Ø 113</td>
<td>139</td>
<td>60810498</td>
</tr>
<tr>
<td>Ø 140</td>
<td>139</td>
<td>60810401</td>
</tr>
</tbody>
</table>

Accessories:
- Honeycomb mesh black: 57 002 750
- Oval-outline lens (recommended for spot reflector): 60 800 555
- Protective glass: 50 526 800
- Blocking filter UVA: 50 526 860
- Colour filter Green: 50 526 850
- Colour filter Red: 50 528 800
- Colour filter Yellow: 50 528 820

Please order transformer separately.

PANOS S 150 recessed directional spotlight for LV lamps

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Height (mm)</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 150</td>
<td>163</td>
<td>60810499</td>
</tr>
<tr>
<td>Ø 156</td>
<td>163</td>
<td>60810406</td>
</tr>
</tbody>
</table>

Accessories:
- Blocking filter Protective glass: 50 526 420
- Blocking filter UVA Blocking filter: 50 526 430
- Colour filter Green: 50 526 800
- Colour filter Yellow: 50 528 820

Please order transformer separately.
PANOS S 150 recessed directional spotlight HIT-TC-CE

- Tilting housing rotates through 360° and pivots through 45°/60°
- Separately adjustable pivoting housing prevents direct view into luminaire
- Flood: textured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free
- Spot: smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver-look, low iridescence, textured head section
- With protective glass
- With electronic ballast
- Mains voltage: 230 V; connection: 3-pole plug-in terminal
- 1/20 W HIT-TC-CE: through-wiring possible

PANOS S 150 recessed directional spotlight for metal halide lamps

<table>
<thead>
<tr>
<th>Red/R03</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/20 W HIT-TC-CE G8,5 flood</td>
<td>156/150</td>
<td>1.1</td>
</tr>
<tr>
<td>1/20 W HIT-TC-CE G8,5 spot</td>
<td>156/150</td>
<td>1.1</td>
</tr>
<tr>
<td>1/35 W HIT-TC-CE G8,5 flood</td>
<td>156/150</td>
<td>1.1</td>
</tr>
<tr>
<td>1/35 W HIT-TC-CE G8,5 spot</td>
<td>156/150</td>
<td>1.1</td>
</tr>
<tr>
<td>1/70 W HIT-TC-CE G8,5 flood</td>
<td>156/150</td>
<td>1.1</td>
</tr>
<tr>
<td>1/70 W HIT-TC-CE G8,5 spot</td>
<td>156/150</td>
<td>1.1</td>
</tr>
</tbody>
</table>

Accessory

- Blocking filter Protective glass S0 526 420
- Blocking filter UVA Blocking filter S0 526 430
- Colour filter Green S0 526 820
- Colour filter Red S0 526 840
- Colour filter Yellow S0 526 820

PANOS S 200 recessed directional spotlight QR111/QT12

- Tilting housing rotates through 360° and pivots through 45°/60°
- Separately adjustable pivoting housing prevents direct view into luminaire
- QT-LP 12: structured reflector made of highest-grade aluminium, anodised in a bright satin finish, low iridescence
- Rated lamp voltage: 12 V

PANOS S 200 recessed directional spotlight for low-voltage halogen lamps

<table>
<thead>
<tr>
<th>Red/R03</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/100 W QR111 053</td>
<td>230/200</td>
<td>1.2</td>
</tr>
<tr>
<td>1/100 W QT-LP 12 GY6.35 flood</td>
<td>230/200</td>
<td>1.2</td>
</tr>
<tr>
<td>1/100 W QT-LP 12 GY6.35 spot</td>
<td>230/200</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Accessory

- Blocking filter for QR111/QT12 U/M/A S0 526 260
- Blocking filter for QR111/QT12 U/M/A Blocking filter S0 526 900

Please order transformer separately.
PANOS S 200 HIT-CE/HST recessed directional spotlight

- Tilting housing rotates through 360° and pivots through 45°/60°
- Separately adjustable pivoting housing prevents direct view into luminaire
- Structured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
- HIT-CE with internal protective glass panel
- Connecting cable with 3-pole Wieland plug, please order ballast separately
- HST GX12: Philips SDW-TG lamp
- HIT models can also take 1/70 W HIT-CE lamp

PANOS S 200 recessed directional spotlight for metal/ sodium vapour lamps

<table>
<thead>
<tr>
<th>Wattage</th>
<th>LOR</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/100 W HST GX12 flood</td>
<td>230/200</td>
<td>1.2</td>
</tr>
<tr>
<td>1/100 W HST GX12 spot</td>
<td>230/200</td>
<td>1.2</td>
</tr>
<tr>
<td>1/150 W HIT-CE G12 flood</td>
<td>240/200</td>
<td>1.2</td>
</tr>
<tr>
<td>1/150 W HIT-CE G12 spot</td>
<td>240/200</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Accessory

- Blocking filter for HIT-CE IR/UVA
- Blocking filter for HIT-CE UVA
- Blocking filter

Please order control gear separately.

---

PANOS S 250 recessed directional spotlight QT-DE

- Horizontal lamp position
- Rectangular tilting housing can be rotated through 360° and pivoted through 30°/60°
- Structured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
- With protective glass
- Mains voltage: 230 V, connection: 3-pole plug-in terminal
- IP 44 when installed in closed ceilings

PANOS S 250 recessed directional spotlight for halogen lamps

<table>
<thead>
<tr>
<th>Wattage</th>
<th>LOR</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/200 W QT-DE 12 R7s</td>
<td>130/250</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Accessory

- Blocking filter IR/UVA

---

Please order control gear separately.
PANOS S 250 recessed directional spotlight HIT-DE / HST

- Horizontal lamp position
- Rectangular tilting housing can be rotated through 360° and pivoted through 30°/60°
- Structured reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, low iridescence
- With protective glass
- Connecting cable with 3-pole Wieland plug, please order ballast separately
- HST GX12 must only be used with an electronic ballast
- HST GX12: Philips SDW-TG lamp
- IP 44 when installed in closed ceilings

Ord. no.
130/250 1.5 60 819 504
130/250 1.5 60 819 505
130/250 1.5 60 819 423
130/250 1.5 60 819 506

Accessory
Blocking filter IR/UVA 60 800 262

Please order control gear separately
## Distribution characteristics

### Flood

<table>
<thead>
<tr>
<th>Compact fluorescent lamps (TC-TEL, TC-TELI)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1/18 W TC-TEL</strong></td>
</tr>
<tr>
<td><strong>2/18 W TC-TEL</strong></td>
</tr>
<tr>
<td><strong>1/26 W TC-TEL</strong></td>
</tr>
<tr>
<td><strong>2/26 W TC-TEL</strong></td>
</tr>
<tr>
<td><strong>1/18 W TC-TELI</strong></td>
</tr>
<tr>
<td><strong>2/18 W TC-TELI</strong></td>
</tr>
<tr>
<td><strong>1/26 W TC-TELI</strong></td>
</tr>
<tr>
<td><strong>2/26 W TC-TELI</strong></td>
</tr>
</tbody>
</table>

### Metal halide lamps

<table>
<thead>
<tr>
<th><strong>HIT DE 70 W</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>IP 54 kit (luminaire obtains IP20)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear glass</td>
</tr>
<tr>
<td>Structured glass</td>
</tr>
<tr>
<td>Opal glass</td>
</tr>
</tbody>
</table>

### Decorative attachments

| Decorative glass elem., clear, frosted centre | |
| Decorative glass elem., clear, frosted outer ring | |
| Decorative glass elem., frosted, screw-fastened | |
| Decorative rings, clear, frosted or blue | |

### Other attachment elements

| Anti-glare cone | |
| Cruciform louvre | |
| Radial louvre | |

---

**PANOS A system overview**
### PANOS-A LF 200 with faceted optic

- **Shared properties**
  - Horizontal lamp position
  - Consists of back plate and reflector unit
  - Housing made of aluminium, white stove-enamelled
- **Including electronic ballast**
  - 5-pole plug-in connector, wired ready-to-connect
- **No-tool quick installation of reflector/cover-ring unit by means of bayonet fixing**

#### PANOS-A LF 200 with dimmable electronic ballast

<table>
<thead>
<tr>
<th>H/O</th>
<th>kg</th>
<th>Order no. 1</th>
<th>Order no. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>62 902 200</td>
<td>62 904 219</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>62 902 208</td>
<td>62 904 220</td>
</tr>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>60 810 730</td>
<td>60 810 731</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>60 810 732</td>
<td>60 810 733</td>
</tr>
</tbody>
</table>

#### PANOS-A LF 200 with electronic ballast

<table>
<thead>
<tr>
<th>H/O</th>
<th>kg</th>
<th>Order no. 1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>62 902 200</td>
<td>62 904 219</td>
</tr>
<tr>
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<td>0.5</td>
<td>62 902 208</td>
<td>62 904 220</td>
</tr>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>60 810 730</td>
<td>60 810 731</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>60 810 732</td>
<td>60 810 733</td>
</tr>
</tbody>
</table>

### PANOS-A LG 200 with smooth optic

- **Shared properties**
  - Faceted reflector, aluminiumised in a highly specular finish, iridescent-free
  - Wide-angle distribution; with radial louvre (see attachment elements): for use with DSE or UGR: 16/19
  - Reflector/flange made of high-quality UV-resistant polycarbonate
  - Other dimmable versions available on request
- **Including electronic ballast**
  - 5-pole plug-in connector, wired ready-to-connect

#### PANOS-A LG 200 with dimmable electronic ballast

<table>
<thead>
<tr>
<th>H/O</th>
<th>kg</th>
<th>Order no. 1</th>
<th>Order no. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>62 902 200</td>
<td>62 904 219</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>62 902 208</td>
<td>62 904 220</td>
</tr>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>60 810 730</td>
<td>60 810 731</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>60 810 732</td>
<td>60 810 733</td>
</tr>
</tbody>
</table>

#### PANOS-A LG 200 with electronic ballast

<table>
<thead>
<tr>
<th>H/O</th>
<th>kg</th>
<th>Order no. 1</th>
<th>Order no. 2</th>
</tr>
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<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>62 902 200</td>
<td>62 904 219</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>62 902 208</td>
<td>62 904 220</td>
</tr>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>0.5</td>
<td>60 810 730</td>
<td>60 810 731</td>
</tr>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-3</td>
<td>0.5</td>
<td>60 810 732</td>
<td>60 810 733</td>
</tr>
</tbody>
</table>

---

dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim²save
PANOS-A LM 200 with frosted optic

- Matt reflector, aluminium-colour coating
- Reflector/flange made of high-quality UV-resistant polycarbonate
- Other dimmable versions available on request

<table>
<thead>
<tr>
<th>H/D</th>
<th>kg</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-2</td>
<td>160/230</td>
<td>1.5</td>
<td>62 902 106</td>
</tr>
<tr>
<td>2/26 W TC-TEL/TELI, G24 q-3</td>
<td>160/230</td>
<td>1.5</td>
<td>62 902 435</td>
</tr>
</tbody>
</table>

PANOS-A LM 200 with dimmable electr. ballast
dimmable Dali
dim²save

<table>
<thead>
<tr>
<th>H/D</th>
<th>kg</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/18 W TC-TEL/TELI, G24 q-2</td>
<td>160/230</td>
<td>1.5</td>
<td>60 810 743</td>
</tr>
<tr>
<td>2/26 W TC-TEL/TELI, G24 q-3</td>
<td>160/230</td>
<td>1.5</td>
<td>60 810 740</td>
</tr>
</tbody>
</table>

PANOS-A LL 200 with white optic

- White reflector, smooth
- Reflector/flange made of high-quality UV-resistant polycarbonate
- Other dimmable versions available on request

<table>
<thead>
<tr>
<th>H/D</th>
<th>kg</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>160/230</td>
<td>1.5</td>
<td>61 870 738</td>
</tr>
<tr>
<td>1/26 W TC-TEL/TELI, G24 q-3</td>
<td>160/230</td>
<td>1.5</td>
<td>61 870 740</td>
</tr>
</tbody>
</table>

PANOS-A LL 200 with electronic ballast

electronic

<table>
<thead>
<tr>
<th>H/D</th>
<th>kg</th>
<th>Order no.</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/18 W TC-TEL/TELI, G24 q-2</td>
<td>160/230</td>
<td>1.5</td>
<td>60 810 738</td>
</tr>
<tr>
<td>1/26 W TC-TEL/TELI, G24 q-3</td>
<td>160/230</td>
<td>1.5</td>
<td>60 810 740</td>
</tr>
</tbody>
</table>
**PANOS-A HF 200 with faceted optic**

- Faceted reflector, aluminised in a highly specular finish, iridescent-free
- Wide-angle (batwing) light distribution, DSE-compatible resp. UGR: 16/19
- Reflector/flange made of high-quality UV-resistant polycarbonate
- Other dimmable versions available on request

**PANOS-A HG 200 with smooth optic**

- Smooth reflector, aluminised, highly specular finish, iridescent-free
- Wide-angle (batwing) light distribution, DSE-compatible resp. UGR: 16/19
- Reflector/flange made of high-quality UV-resistant polycarbonate
- Other dimmable versions available on request

---

**Order Information**

<table>
<thead>
<tr>
<th>Model Configuration</th>
<th>Power (W)</th>
<th>Input Voltage (V)</th>
<th>Dimming</th>
<th>Order No.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PANOS-A HF 200</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimmable Dali</td>
<td>2/18</td>
<td>200/230</td>
<td>1.5</td>
<td>62 902 206</td>
<td>62 904 213</td>
</tr>
<tr>
<td>Dim²save</td>
<td>2/26</td>
<td>200/230</td>
<td>1.5</td>
<td>62 902 025</td>
<td>62 904 214</td>
</tr>
<tr>
<td><strong>PANOS-A HG 200</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimmable Dali</td>
<td>1/18</td>
<td>200/230</td>
<td>1.5</td>
<td>60 810 712</td>
<td>60 810 714</td>
</tr>
<tr>
<td>Dim²save</td>
<td>1/26</td>
<td>200/230</td>
<td>1.5</td>
<td>60 810 025</td>
<td>60 810 214</td>
</tr>
<tr>
<td>Dim²save</td>
<td>2/18</td>
<td>200/230</td>
<td>1.5</td>
<td>60 810 713</td>
<td>60 810 715</td>
</tr>
<tr>
<td>Dim²save</td>
<td>2/26</td>
<td>200/230</td>
<td>1.5</td>
<td>60 810 715</td>
<td>60 810 715</td>
</tr>
</tbody>
</table>

---

**Technical Details**

- Light output ratio (LOR): 60%, UGR: 0%
- Classification: LiTG A
- Söllner CIE DIN Nominal Illuminance (lx)
  - A: 2000, 1000, 750, 500, 300
  - B: 1, 2000, 1500, 1000, 750, 500, 300
  - C: 2000, 1000, 500, 300
- Angle of light emission
  - 0°, 30°, 60°, 90°, 120°, 150°, 180°
- Utilization Factors according to CIBSE Technical Memorandum No. 5, 1980
  - SHR Nom = 1.25, SHR Max = 1.30, SHR Max TR = 1.36

---

**Dim²save**

- Dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim²save
**PANOS-A**

**PANOS-A HM 200 with frosted optic**

- Matt reflector, aluminium-colour coating.
- Reflector/flange made of high-quality UV-resistant polycarbonate.
- Other dimmable versions available on request.

**PANOS-A HL 200 with white painted optic**

- White reflector, smooth.
- Reflector/flange made of high-quality UV-resistant polycarbonate.
- Other dimmable versions available on request.

**PANOS-A MG 200 with smooth optic**

- Smooth reflector made of highest-grade aluminium, anodised in a bright satin finish, silver colour, iridescence-free, structured upper part.
- With protective glass.

---

**PANOS-A HM 200 with dimmable electr. ballast**

- 1/18 W TC-TEL/TELI, G24 q-2
- 200/230 1.5
- 200/230 1.5
- Order no.: 62 903 220, 62 904 217

**PANOS-A HL 200 with electronic ballast**

- 1/18 W TC-TEL/TELI, G24 q-2
- 200/230 1.5
- 60 810 724

**PANOS-A MG 200 with electronic ballast**

- 1/70 W HIT-DE RX7s
- 264/230 1.9
- 60 810 728

---

**Utilization Factors**

- Light output ratio
- Classification
- Flux Codes
- UTE
- BZ
- LG7
- LiTG
- BLF
- FFR
- DLOR
- LOR
- 0.00 (0:100)
- 89 %
- 52 %
- 1.00
- 89 %
- 0 %
- CIE DIN Nominal Illuminance (lx)
- D 2
- C 2
- B 1
- E 3
- Angle of light emission
- 45°
- 55°
- 65°
- 75°
- 85°
- 90°
- 95°
- Luminances in cd/m² based on 6500 lm
- 1/18 W TC-TEL/TELI, G24 q-2
- 200/230 1.5
- Order no.: 62 903 220, 62 904 217

---

**ZUMTOBEL**

dim/save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DMLITE. For more information see: www.zumtobel.com/dim2save
### Radial louvre
- For improved glare control in recessed luminaires: PANOS L, PANOS M LG, PANOS M LM and surface-mounted luminaires: PANOS-A L
- For workstations with visual display terminals
- High-grade, heat-resistant plastic (polycarbonate), aluminised in a highly specular finish, iridescence-free
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

### Polygonal louvre
- For improved glare control in recessed luminaires: PANOS L, PANOS M LG, PANOS M LM (can also be used with PANOS H, PANOS M HG, PANOS M HM)
- High-grade, heat-resistant plastic (polycarbonate), aluminised in a highly specular finish, iridescence-free
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

### Cruciform louvre
- For improved glare control in recessed luminaires: PANOS L, PANOS M LG, PANOS M LM and surface-mounted luminaires: PANOS-A L; can also be used with PANOS H, PANOS M HG, PANOS M HM, PANOS-A H
- Cover: anodised aluminium
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

### Radial louvre (IP 20) only for
- PANOS L/M LG/M LM, PANOS-A L/-AD L

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.2</td>
<td>60 800 037</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.2</td>
<td>60 800 038</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.3</td>
<td>60 800 039</td>
</tr>
</tbody>
</table>

### Polygonal louvre (IP 20) only for
- PANOS L/M LG/M HG/M LM/M HM

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.3</td>
<td>60 800 042</td>
</tr>
</tbody>
</table>

### Cruciform louvre (IP 20) only for
- PANOS L/H/M LG/M HG/M LM/M HM, PANOS-A/-AD

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.5</td>
<td>60 800 074</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.6</td>
<td>60 800 075</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.6</td>
<td>60 800 076</td>
</tr>
</tbody>
</table>
Anti-glare cone, patterned glass

- For improved glare control in recessed luminaires: PANOS L, PANOS M LG, PANOS M LM and surface-mounted luminaires: PANOS-A L; can also be used with PANOS H, PANOS M HG, PANOS M HM, PANOS-A H
- Anti-glare cone: anodised aluminium
- Internal textured glass disc
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

Anti-glare cone with structured glass (IP 20) only for PANOS L/H/M LG/M HG/M LM/M HM, PANOS-A/-AD

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight (kg)</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.2</td>
<td>60 800 043</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.3</td>
<td>60 800 044</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.4</td>
<td>60 800 045</td>
</tr>
</tbody>
</table>

Please take note of the matrix of combinations at the end of the section.

IP 54 attachment, textured glass

- For attaining protection type IP 54 with PANOS recessed luminaires in closed ceilings
- When used in PANOS-A/-AD, the luminaire attains protection type IP 20
- With structured glass disc in attachment ring, flush with ceiling
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

Structured glass attachment (IP 54) for

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight (kg)</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 150 mm</td>
<td>0.2</td>
<td>60 800 080</td>
</tr>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.2</td>
<td>60 800 031</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.3</td>
<td>60 800 032</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.5</td>
<td>60 800 033</td>
</tr>
</tbody>
</table>

IP 54 attachment, transparent glass

- For attaining protection type IP 54 with PANOS recessed luminaires in closed ceilings
- When used in PANOS-A/-AD, the luminaire attains protection type IP 20
- With clear float glass disc in attachment ring, flush with ceiling
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring/glass panel

Transparent attachment (IP 54) for

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight (kg)</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 100 mm</td>
<td>0.1</td>
<td>60 800 077</td>
</tr>
<tr>
<td>PANOS DA 150 mm</td>
<td>0.2</td>
<td>60 800 079</td>
</tr>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.2</td>
<td>60 800 028</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.3</td>
<td>60 800 029</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.5</td>
<td>60 800 030</td>
</tr>
</tbody>
</table>
**IP 54 attachment, UVA blocking filter**

- For attaining protection type IP 54 with PANOS recessed luminaires in closed ceilings
- With UVA blocking filter in attachment ring, flush with ceiling
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

<table>
<thead>
<tr>
<th>Attachment, UVA blocking filter (IP 54) for</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 150 mm</td>
<td>0.2</td>
<td>60 800 082</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.2</td>
<td>60 800 083</td>
</tr>
</tbody>
</table>

**IP 54 attachment, opal**

- For attaining protection type IP 54 with PANOS recessed luminaires in closed ceilings
- When used in PANOS-A/-AD, the luminaire attains protection type IP 20
- With printed, opal float-glass disc in attachment ring, flush with ceiling
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for attachment ring

<table>
<thead>
<tr>
<th>Opal attachment (IP 54) for</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 150 mm</td>
<td>0.2</td>
<td>60 800 448</td>
</tr>
<tr>
<td>PANOS DA 175 mm</td>
<td>0.2</td>
<td>60 800 449</td>
</tr>
<tr>
<td>PANOS DA 200 mm</td>
<td>0.3</td>
<td>60 800 450</td>
</tr>
<tr>
<td>PANOS DA 250 mm</td>
<td>0.5</td>
<td>60 800 451</td>
</tr>
</tbody>
</table>

**ALHENA decorative glass**

- High-quality one-piece silicate glass unit, acid-frosted; colour: white
- Supply includes holding ring for attachment
- Quick installation using “twist and lock” fixing method
- All accessory parts can be retrofitted without the use of tools

<table>
<thead>
<tr>
<th>Decorative glass (IP 20) for PANOS L/H/M</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 100 mm, height = 31 mm, white glass</td>
<td>0.2</td>
<td>60 800 091</td>
</tr>
<tr>
<td>PANOS DA 150 mm, height = 42 mm, white glass</td>
<td>0.3</td>
<td>60 800 098</td>
</tr>
<tr>
<td>PANOS DA 175 mm, height = 43 mm, white glass</td>
<td>0.4</td>
<td>60 800 120</td>
</tr>
<tr>
<td>PANOS DA 200 mm, height = 43 mm, white glass</td>
<td>0.5</td>
<td>60 800 121</td>
</tr>
<tr>
<td>PANOS DA 250 mm, height = 43 mm, white glass</td>
<td>0.7</td>
<td>60 800 122</td>
</tr>
</tbody>
</table>

---

**Order no.**

- PANOS DA 150 mm: 60 800 082
- PANOS DA 200 mm: 60 800 083
- PANOS DA 150 mm: 60 800 448
- PANOS DA 175 mm: 60 800 449
- PANOS DA 200 mm: 60 800 450
- PANOS DA 250 mm: 60 800 451
- PANOS DA 100 mm: 60 800 091
- PANOS DA 150 mm: 60 800 098
- PANOS DA 175 mm: 60 800 120
- PANOS DA 200 mm: 60 800 121
- PANOS DA 250 mm: 60 800 122
## Decorative panel, transparent, matt inside
- Suspended decorative disc for PANOS luminaires
- Decorative disc with 3-point fixing
- Glass thickness 8 mm
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for decorative attachment

### Decorative disc (IP 20) for

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, clear disc frosted in central area</td>
<td>0.7</td>
<td>60 800 046</td>
</tr>
<tr>
<td>PANOS DA 200 mm, clear disc frosted in central area</td>
<td>1.0</td>
<td>60 800 047</td>
</tr>
<tr>
<td>PANOS DA 250 mm, clear disc frosted in central area</td>
<td>1.3</td>
<td>60 800 048</td>
</tr>
</tbody>
</table>

## Decorative panel, transparent, matt outside
- Suspended decorative disc for PANOS luminaires
- Decorative disc with 3-point fixing
- Glass thickness 8 mm
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for decorative attachment

### Decorative disc (IP 20) for

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, clear disc with frosted ring</td>
<td>0.7</td>
<td>60 800 049</td>
</tr>
<tr>
<td>PANOS DA 200 mm, clear disc with frosted ring</td>
<td>1.0</td>
<td>60 800 050</td>
</tr>
<tr>
<td>PANOS DA 250 mm, clear disc with frosted ring</td>
<td>1.3</td>
<td>60 800 051</td>
</tr>
</tbody>
</table>

## Clear glass element, frosted centre (screw-fastened)
- Suspended decorative disc for PANOS luminaires
- Decorative disc with 4-point metal fixing
- Supply includes holding ring for attachment
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- All accessory parts can be retrofitted without the use of tools

### Decorative disc (IP 20) for

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, clear disc frosted in central area</td>
<td>0.9</td>
<td>60 800 123</td>
</tr>
<tr>
<td>PANOS DA 200 mm, clear disc frosted in central area</td>
<td>1.5</td>
<td>60 800 124</td>
</tr>
<tr>
<td>PANOS DA 250 mm, clear disc frosted in central area</td>
<td>1.9</td>
<td>60 800 125</td>
</tr>
</tbody>
</table>
### Decorative ring transparent

- Suspended decorative ring for PANOS luminaires
- Decorative ring with 3-point fixing
- Glass thickness 8 mm
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for decorative attachment

<table>
<thead>
<tr>
<th>Decorative ring (IP 20)</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, clear ring</td>
<td>0.4</td>
<td>60 800 052</td>
</tr>
<tr>
<td>PANOS DA 200 mm, clear ring</td>
<td>0.5</td>
<td>60 800 053</td>
</tr>
<tr>
<td>PANOS DA 250 mm, clear ring</td>
<td>0.7</td>
<td>60 800 054</td>
</tr>
</tbody>
</table>

### Decorative ring matt

- Suspended decorative ring for PANOS luminaires
- Decorative ring with 3-point fixing
- Glass thickness 8 mm
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for decorative attachment

<table>
<thead>
<tr>
<th>Decorative ring (IP 20)</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, matt ring</td>
<td>0.4</td>
<td>60 800 055</td>
</tr>
<tr>
<td>PANOS DA 200 mm, matt ring</td>
<td>0.5</td>
<td>60 800 056</td>
</tr>
<tr>
<td>PANOS DA 250 mm, matt ring</td>
<td>0.7</td>
<td>60 800 057</td>
</tr>
</tbody>
</table>

### Dekoring blue

- Suspended decorative ring for PANOS luminaires
- Decorative ring with 3-point fixing
- Glass thickness 8 mm
- Attachment ring made of white polycarbonate with "twist-and-lock" fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools
- Special version: other colours possible for decorative attachment

<table>
<thead>
<tr>
<th>Decorative ring (IP 20)</th>
<th>kg</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANOS DA 175 mm, blue ring</td>
<td>0.4</td>
<td>60 800 058</td>
</tr>
<tr>
<td>PANOS DA 200 mm, blue ring</td>
<td>0.5</td>
<td>60 800 059</td>
</tr>
<tr>
<td>PANOS DA 250 mm, blue ring</td>
<td>0.7</td>
<td>60 800 060</td>
</tr>
</tbody>
</table>
### Information sign
- For Ø 200 mm PANOS luminaries
- Slotted plate and cover, white, for hook-in information panels made of silicate glass with matt-sanded symbol, in cover ring
- Attachment ring made of white polycarbonate with “twist-and-lock” fixing mechanism
- Supply includes holding ring for attachment
- All accessory parts can be retrofitted without the use of tools

### Luminaire diffuser (IP 20)
- **PANOS DA 200 mm, information sign, white** 60 800 061
  - Please order silicate glass info sign separately.

### Silicate-glass information signs
- Square silicate glass information panels with symbols

### Silicate glass panels for information signs
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Weight</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gents, square shape</td>
<td>0.7</td>
<td>60 800 066</td>
</tr>
<tr>
<td>I (information), square shape</td>
<td>0.7</td>
<td>60 800 064</td>
</tr>
<tr>
<td>Ladies, square shape</td>
<td>0.7</td>
<td>60 800 065</td>
</tr>
<tr>
<td>Lift, square shape</td>
<td>0.7</td>
<td>60 800 067</td>
</tr>
<tr>
<td>Telephone, square shape</td>
<td>0.7</td>
<td>60 800 063</td>
</tr>
<tr>
<td>Without symbol, square shape</td>
<td>0.3</td>
<td>60 800 068</td>
</tr>
<tr>
<td>Without symbol, trapezoidal shape</td>
<td>1.0</td>
<td>60 800 069</td>
</tr>
</tbody>
</table>

### Casting surround
- For installation of PANOS L/ H/WW/M/S recessed luminaires in concrete ceilings
- 2-piece housing made of plastic, or upper part in galvanised steel for PANOS L
- Entry of cables with blanking plugs
- Housing can be fixed to iron reinforcement using special fixing flaps
- Concrete casting surround (60 800 144 / 60 800 145 / 60 800 146) must not be used with emergency lighting

### Concrete casting surround for PANOS L/H, PANOS M LG/M LM HG/M HM
- **DA = 175 mm, H = 135 mm** 60 800 144
- **DA = 200 mm, H = 135 mm** 60 800 145
- **DA = 250 mm, H = 135 mm** 60 800 146

### Concrete casting surround for PANOS H, PANOS M HG/M HM
- **DA = 200 mm, H = 180 mm** 60 800 147
- **DA = 250 mm, H = 225 mm** 60 800 148

### Concrete casting surround for PANOS S 100 / PANOS M 100
- **DA = 100 mm, H = 170 mm** 60 800 303

### Concrete casting surround for PANOS S 250
- **DA = 250 mm, H = 180 mm** 60 800 302
Ceiling reinforcing ring

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

<table>
<thead>
<tr>
<th>Cut-out</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 mm</td>
<td>60 800 313</td>
</tr>
<tr>
<td>150 mm</td>
<td>60 800 314</td>
</tr>
<tr>
<td>175 mm</td>
<td>60 800 315</td>
</tr>
<tr>
<td>200 mm</td>
<td>60 800 316</td>
</tr>
<tr>
<td>250 mm</td>
<td>60 800 317</td>
</tr>
</tbody>
</table>

Retrofit ring

- For reducing recessed diameters in suspended ceilings
- Colour: White
- Installation: using spring clips, ceilings up to 35 mm thick
- Special designs possible for other cut-outs

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 800 009</td>
</tr>
<tr>
<td>57 000 470</td>
</tr>
<tr>
<td>57 000 480</td>
</tr>
</tbody>
</table>

Plaster ring

- For installation of PANOS recessed luminaires in suspended plaster ceilings
- Material: aluminium
- With perforated strip made of zinc-plated sheet steel for fixing

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 800 018</td>
</tr>
</tbody>
</table>

Panel plates

- For installation of PANOS recessed luminaires in panel ceilings
- Sheet steel, white stove-enamelled
- Installation: using spring clips
- Special designs possible for other cut-outs

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 800 021</td>
</tr>
<tr>
<td>60 800 022</td>
</tr>
</tbody>
</table>

Planar ring

- For flush installation of PANOS L and H recessed luminaires in plasterboard ceilings
- Aluminium, perforated, with plastering edge trim
- Installed using screws/spring clips (not included in scope of supply)
- Decorative attachments with external glass holders cannot be fitted with the planar ring

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 800 062</td>
</tr>
<tr>
<td>60 800 026</td>
</tr>
<tr>
<td>60 800 027</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
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<td>60 800 071</td>
</tr>
<tr>
<td>60 800 072</td>
</tr>
<tr>
<td>60 800 073</td>
</tr>
</tbody>
</table>
### PANOS Q

#### System overview

<table>
<thead>
<tr>
<th></th>
<th>190 LF</th>
<th>190 LG</th>
<th>190 LM</th>
<th>190 LL</th>
<th>250 HF</th>
<th>250 HG</th>
<th>250 HM</th>
<th>250 HL</th>
<th>Q 190</th>
</tr>
</thead>
</table>

#### Distribution characteristics
- **Wide-angle**
- **Cover frame**
  - White
  - Titanium
  - Chrome
  - Frameless

#### Compact fluorescent lamps (TC-TELI)
- **1/18 W**
- **2/18 W**
- **1/26 W**
- **2/26 W**
- **1/32 W**
- **2/32 W**
- **1/42 W**
- **2/42 W**

#### Metal halide lamps
- **HIT-TC-CE G8,5 70 W**
- **HIT-CE G12 70 W**

#### IP 54 kit
- **Clear glass**
- **Structured glass**
- **Opal glass**
- **IR/UVA blocking filter**

#### Decorative elements
- **AKSELLA**
- **ALYA**
- **ATRIA**
- **Decorative glass cube**
- **Decorative frame, frosted**

#### Other attachment elements
- **Retro cover frame**
- **Louvre**
- **Wallwasher attachment**

#### Accessories
- **Ceiling reinforcing ring**
- **Concrete casting surround**
- **Plaster ring**
- **Panel plates**
1. Sharing properties
PANOS Q LF/LG/LM/LL

- Light-tight luminaire housing in ceiling
- Horizontal lamp position
- Cover frame made of die-cast aluminium
- Model without flange flush-mounted in ceiling
- Complete model comprises luminaire and ballast unit
- Dimensions of ballast unit: 278 x 114 x 53 mm
- 5-pole terminal with plug-in connection
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings, ceiling thickness 1–25 mm
- Models with 1-hour or 3-hour emergency lighting available on request

PANOS Q LF 190 with faceted optic

- Faceted reflector unit made of high-quality UV-resistant polycarbonate, highly specular, iridescence-free
- Wide-angle light distribution, with louvre (see Attachment elements) for lighting DSE workstations (UGR < 19)

PANOS Q LF 190 with dimmable electr. ballast, white cover frame
dimmable Dali
dim²save
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 329 62 904 195
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 345 62 904 196
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 361 62 904 197

PANOS Q LF 190 with electronic ballast, white cover frame
electronic
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 073
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 089
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 105

PANOS Q LF 190 with dimmable electr. ballast, titanium-finish cover frame
dimmable Dali
dim²save
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 330 62 904 198
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 346 62 904 199
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 362 62 904 200

PANOS Q LF 190 with electronic ballast, titanium cover frame
electronic
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 074
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 090
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 106

PANOS Q LF 190 with dimmable electr. ballast, without frame
dimmable Dali
dim²save
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 332
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 348
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 364

PANOS Q LF 190 with electronic ballast, flush-fitting
electronic
1/18 W TC-TEL/TELI, G24 q-2 190/190/100 1.5 60 811 076
1/26 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 092
1/32 W TC-TEL/TELI, G24 q-3 190/190/100 1.5 60 811 108

dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim2save
**PANOS Q LG 190 with smooth optic**

- Smooth reflector unit made of high-quality UV-resistant polycarbonate, highly specular, iridescence-free
- Wide-angle light distribution, with louvre (see Attachment elements) for lighting DSE workstations (UGR < 19)

### PANOS Q LG 190 with dimmable electr. ballast, white cover frame
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

### PANOS Q LG 190 with electronic ballast, white cover frame
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

### PANOS Q LG 190 with dimmable electr. ballast, titanium-finish cover frame
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

### PANOS Q LG 190 with electronic ballast, titanium cover frame
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

### PANOS Q LG 190 with dimmable electr. ballast, without frame
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

### PANOS Q LG 190 with electronic ballast, flush-fitting
- 1/18 W TC-TEL/TELI, G24 q-2
- 1/26 W TC-TEL/TELI, G24 q-3
- 1/32 W TC-TEL/TELI, G24 q-3

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**EL/EB/ET**

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**Classification**

- LiTG A 50
- LG7 BZ BZ2
- UTE 0.76 C

**Flux Codes**

- 447
- 720
- 758
- 758
- 758

**Söllner**

**CIE DIN**

- **Nominal Illuminance (lx)**
  - A 2000 1000 750 500 300
  - B 1 2000 1500 1000 750 500 300
  - C 2000 1000 500 300
  - D 2 2000 1000 500 300
  - E 3 2000 1000 500 300

**Luminances in cd/m² based on 2400 lm**

- 1
- 2
- 3
- 4

**Utilization Factors**

- **Room Reflectance**
  - Ceiling
  - Walls
  - Floor

- **Room Index**
  - 0.75
  - 1.00
  - 1.25
  - 1.50
  - 2.00
  - 2.50
  - 3.00
  - 4.00
  - 5.00

- **SHR Nom = 1.50 SHR Max = 1.73 SHR Max TR = 2.17**

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**ZUMTOBEL**
**PANOS Q LM 190 with matt optic**

- Matt reflector unit made of high-quality UV-resistant polycarbonate, painted in aluminium colour

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**PANOS Q LM 190 with dimmable electr. ballast, white cover frame**

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**PANOS Q LM 190 with electronic ballast, white cover frame**

1/18 W TC-TEL/TELI, G24 q-2
1/26 W TC-TEL/TELI, G24 q-3
1/32 W TC-TEL/TELI, G24 q-3

---

**PANOS Q LM 190 with dimmable electr. ballast, titanium-finish cover frame**

1/18 W TC-TEL/TELI, G24 q-2
1/26 W TC-TEL/TELI, G24 q-3
1/32 W TC-TEL/TELI, G24 q-3

**PANOS Q LM 190 with electronic ballast, without frame**

1/18 W TC-TEL/TELI, G24 q-2
1/26 W TC-TEL/TELI, G24 q-3
1/32 W TC-TEL/TELI, G24 q-3

**PANOS Q LM 190 with electronic ballast, flush-fitting**

1/18 W TC-TEL/TELI, G24 q-2
1/26 W TC-TEL/TELI, G24 q-3
1/32 W TC-TEL/TELI, G24 q-3

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dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DMLITE. For more information see: www.zumtobel.com/dim2save
PANOS Q LL 190 with white painted optic

- Smooth reflector unit made of high-quality UV-resistant polycarbonate, painted white

PANOS Q LL 190 with dimmable electronic ballast, white cover frame
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 341
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 337
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 373

PANOS Q LL 190 with electronic ballast, white cover frame
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 085
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 101
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 117

PANOS Q LL 190 with dimmable electronic ballast, titanium-finish cover frame
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 342
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 358
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 374

PANOS Q LL 190 with electronic ballast, titanium cover frame
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 086
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 102
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 118

PANOS Q LL 190 with dimmable electronic ballast, without frame
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 344
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 360
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 376

PANOS Q LL 190 with electronic ballast, flush-fitting
- 1/18 W TC-TEL/TELI G24 q-2 190/190/100 1.5 60 811 088
- 1/26 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 104
- 1/32 W TC-TEL/TELI G24 q-3 190/190/100 1.5 60 811 118

Söllner CIE DIN Nominal Illuminance (lx)
- A 2000 1000 750 500 300
- B 1 2000 1500 1000 750 500 300
- C 2000 1000 500 300
- D 2 2000 1000 500 300
- E 3 2000 1000 500 300

Classification
- LiLG7 BZ BZ3
- UT 0.70 D

Flux Codes
- 370 599 683 700 701
I. Shared properties

- **PANOS Q HF/HG/HM/HL**
- Light-tight luminaire housing in ceiling
- Horizontal lamp position
- Cover frame made of die-cast aluminium
- Model without flange flush-mounted in ceiling
- Complete model comprises luminaire and ballast unit
- Dimensions of ballast unit: 275 x 114 x 53 mm
- 5-pole terminal with plug-in connection
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings with thickness 1–25 mm
- Models with 1-hour or 3-hour emergency lighting available on request

**PANOS Q HF 250 with faceted optic**

- Faceted reflector unit made of high-quality UV-resistant polycarbonate, highly specular, iridescence-free
- Wide-angle light distribution, suitable for lighting DSE workstations (UGR < 19)

**Panos Q HF 250 with dimmable electr. ballast, white cover frame**

- dimmable Dali
- dim²save
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 457
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 473
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 489
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 505
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 521
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 537 62 904 177
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 553 62 904 178
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 569 62 904 179

**Panos Q HF 250 with electronic ballast, white cover frame**

- electronic
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 201
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 217
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 233
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 249
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 265
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 281
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 297
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 313

**Panos Q HF 250 with dimmable electr. ballast, titanium-finish cover frame**

- dimmable Dali
- dim²save
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 485
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 491
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 505
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 521
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 537 62 904 177
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 553 62 904 178
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 559 62 904 179
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 575 62 904 182

**Panos Q HF 250 with electronic ballast, titanium cover frame**

- electronic
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 202
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 218
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 234
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 250
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.0 60 811 266
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 282
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.0 60 811 288
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.0 60 811 314

**Panos Q HF 250 with dimmable electr. ballast, without frame**

- dimmable Dali
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.1 60 811 460
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 476
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 492
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.1 60 811 508
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.1 60 811 524
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 540
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 556
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.1 60 811 572

**Panos Q HF 250 with electronic ballast, flush-fitting**

- electronic
- 1/16 W TC-TEL/TELI G24 q-2, 250/250/200 2.1 60 811 204
- 1/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 220
- 1/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 236
- 1/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.1 60 811 252
- 2/18 W TC-TEL/TELI G24 q-2, 250/250/200 2.1 60 811 268
- 2/26 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 284
- 2/32 W TC-TEL/TELI G24 q-3, 250/250/200 2.1 60 811 300
- 2/42 W TC-TEL/TELI G24 q-4, 250/250/200 2.1 60 811 316

dimm²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMALITE. For more information see: www.zumtobel.com/dimm²save
PANOS Q HG 250 with smooth optic

- Smooth reflector unit made of high-quality UV-resistant polycarbonate, highly specular, iridescence-free
- Wide-angle light distribution, suitable for lighting DSE workstations (UGR < 19)

PANOS Q HG 250 with dimmable electr. ballast, white cover frame
dimmable Dali dim²save
1/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 462
1/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 478
1/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 494
1/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 510
2/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 526
2/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 542 62 904 186
2/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 558 62 904 187
2/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 574 62 904 188

PANOS Q HG 250 with electronic ballast, titanium-finish cover frame
dimmable Dali dim²save
electronic
1/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 462
1/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 478
1/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 494
1/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 510
2/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 526
2/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 542 62 904 186
2/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 558 62 904 187
2/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 574 62 904 188

PANOS Q HG 250 with electronic ballast, titanium cover frame
electronic
1/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 206
1/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 222
1/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 238
1/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 254
2/18 W TC-TEL/TELL G24 q-2 250/250/200 2.0 60 811 270
2/26 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 286
2/32 W TC-TEL/TELL G24 q-3 250/250/200 2.0 60 811 302
2/42 W TC-TEL/TELL G24 q-4 250/250/200 2.0 60 811 318

PANOS Q HG 250 with dimmable electr. ballast, without frame
dimmable Dali
electronic
1/18 W TC-TEL/TELL G24 q-2 250/250/200 2.1 60 811 464
1/26 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 480
1/32 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 496
1/42 W TC-TEL/TELL G24 q-4 250/250/200 2.1 60 811 512
2/18 W TC-TEL/TELL G24 q-2 250/250/200 2.1 60 811 528
2/26 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 544
2/32 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 560
2/42 W TC-TEL/TELL G24 q-4 250/250/200 2.1 60 811 576

PANOS Q HG 250 with electronic ballast, flush-fitting
electronic
1/18 W TC-TEL/TELL G24 q-2 250/250/200 2.1 60 811 208
1/26 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 224
1/32 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 240
1/42 W TC-TEL/TELL G24 q-4 250/250/200 2.1 60 811 256
2/18 W TC-TEL/TELL G24 q-2 250/250/200 2.1 60 811 272
2/26 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 288
2/32 W TC-TEL/TELL G24 q-3 250/250/200 2.1 60 811 304
2/42 W TC-TEL/TELL G24 q-4 250/250/200 2.1 60 811 320
dim²save: dimmable ballast – controlled by momentary-action switch (switchDIM) or DIMLITE. For more information see: www.zumtobel.com/dim²save
PANOS Q HL 250 with white painted optic

- Smooth reflector unit made of high-quality UV-resistant polycarbonate, painted white

**PANOS Q HL 250 with dimmable electr. ballast, white cover frame**

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<td>2/42 W TC-TEL/TELI, G24 q-4</td>
<td>250/250/200</td>
<td>2.0</td>
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**PANOS Q HL 250 with dimmable electr. ballast, titanium-finish cover frame**

**PANOS Q HL 250 with electronic ballast, without frame**

**PANOS Q HL 250 with electronic ballast, flush-fitting**

**PANOS Q HL 250 with electronic ballast, white cover frame**

<table>
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<tr>
<th>FLUX CODES</th>
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<th>DL OR</th>
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**Luminous flux (lm) according to EN 60503**

- 10000 lm at 180°
- 5000 lm at 90°
- 1000 lm at 45°
- 1000 lm at 30°
- 1000 lm at 15°
- 5000 lm at 90°
- 10000 lm at 180°

**Light output ratio**

- 0°: 100%
- 90°: 50%
- 180°: 25%

**Design**

- Söllner
- 183
**PANOS Q LG 190 with smooth optic HIT CE / HIT-TC-CE**

- Smooth reflector unit made of high-quality UV-resistant polycarbonate, highly specular, iridescence-free
- Light-tight luminaire housing in ceiling
- Horizontal lamp position
- Optimum darklight characteristic for reflector achieved when glass cover is set back
- Cover frame made of die-cast aluminium
- Model without flange flush-mounted in ceiling
- Connection: GST 18/3 Wieland plug
- Please order ballast separately
- Installation: mounting frame made of die-cast aluminium with spring clips for no-tool installation in ceilings, ceiling thickness 1–25 mm
- HIT models can also take 1/20 W HIT-TC-CE or 1/35 W HIT-CE/HIT-TC-CE lamp

**PANOS Q LG 190 for metal halide lamp,**
white cover frame

<table>
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<tr>
<td>1/70 W HIT-TC-CE G8,5</td>
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**PANOS Q LG 190 for metal halide lamp,**
titanium cover frame

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**PANOS Q LG 190 for metal halide lamp,**
flush-fitting

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Please order ballasts separately.

---

**PANOS Q LG 190 for metal halide lamp,**
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Please order ballasts separately.

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Please order ballasts separately.
**Cover frame**

- Stylish ceiling design
- Die-cast aluminium cover frame with chrome optic
- Rounded cover frame made of die-cast aluminium, optionally available in titanium, white or chromium optic
- Please note: Not suitable for frameless version

**Retro cover frame for**
- PANOS Q190 mm, titanium 60 800 352
- PANOS Q190 mm, chrome 60 800 353
- PANOS Q190 mm, white 60 800 351
- PANOS Q250 mm, titanium 60 800 391
- PANOS Q250 mm, chrome 60 800 392
- PANOS Q250 mm, white 60 800 390

**Cover frame for**
- PANOS Q190 mm, chrome-look 60 800 610
- PANOS Q250 mm, chrome-look 60 800 611

**Order no.**
- Retro cover frame for
- Cover frame for

---

**Louvre**

- For improved glare control of PANOS Q LF/LG/LM/LL recessed luminaires with compact fluorescent lamps
- Meets requirements of EN 12464 for DSE workstation lighting when fitted with faceted or smooth optic
- Attachments can be retrofitted any time without using tools
- Please note: cannot be used with wallwasher attachment and HIT

**Order no.**
- Louvre for

---

**Wallwasher attachment**

- Additional kicker reflector for use with square PANOS recessed luminaires to provide accenting with uniform illumination
- Uniform wide-beam illumination from downlight component
- Can also be used with IP 54 cover
- Attachments can be retrofitted any time without using tools

**Order no.**
- Attachment, wallwasher for

---

**Support frame for frameless model**

- Accommodates PANOS Q protective glass covers (clear, opal and patterned) in a frameless PANOS Q recessed luminaire so that the covers fit flush with the ceiling.
- The black support frame and protective glass fit flush with the ceiling; the reflector is surrounded by a black shadow line
- Cannot be used with 2/42 W TC-TEL

**Order no.**
- Support frame for
IP 54 attachment, clear

- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- With clear glass panel fitted flush inside cover frame
- Attachments can be retrofitted any time without using tools
- Cannot be used with 2/42 W TC-TEL

Order no.

<table>
<thead>
<tr>
<th>Item Type</th>
<th>PANOS Q190 mm</th>
<th>PANOS Q250 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparent attachment (IP 54) for</td>
<td>60 800 374</td>
<td>60 800 413</td>
</tr>
</tbody>
</table>

For frameless model, please also order the support frame 60 800 510 or 60 800 511.

---

IP 54 attachment, structured glass

- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- With textured glass panel fitted flush inside cover frame
- Attachments can be retrofitted any time without using tools
- Cannot be used with 2/42 W TC-TEL

Order no.

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<tr>
<th>Item Type</th>
<th>PANOS Q190 mm</th>
<th>PANOS Q250 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structured glass attachment (IP 54) for</td>
<td>60 800 375</td>
<td>60 800 414</td>
</tr>
</tbody>
</table>

For frameless model, please also order the support frame 60 800 510 or 60 800 511.

---

IP 54 attachment, opal

- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- With opal glass panel fitted flush inside cover frame
- Attachments can be retrofitted any time without using tools
- Cannot be used with 2/42 W TC-TEL

Order no.

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<th>Item Type</th>
<th>PANOS Q190 mm</th>
<th>PANOS Q250 mm</th>
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<tbody>
<tr>
<td>Opal attachment (IP 54) for</td>
<td>60 800 376</td>
<td>60 800 415</td>
</tr>
</tbody>
</table>

For frameless model, please also order the support frame 60 800 510 or 60 800 511.

---

IP 54 IR/UVA blocking filter

- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- With IR/UVA blocking filter fitted flush inside cover frame
- Attachments can be retrofitted any time without using tools
- Special versions available on request

Order no.

<table>
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<tr>
<th>Item Type</th>
<th>PANOS Q190 mm (HT)</th>
</tr>
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<tbody>
<tr>
<td>Filter</td>
<td>60 800 386</td>
</tr>
</tbody>
</table>

For frameless model, please also order the support frame 60 800 510 or 60 800 511.
ASKELLA decorative attachment

- High-quality acrylic glass unit, transparent
- Continues the theme of clear geometrical lines set by the square luminaire
- The special decorative cover design breaks up the light attractively
- Attachments can be retrofitted any time without using tools
- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- Please note: Not suitable for frameless version
- Cannot be used with 2/42 W TC-TEL, 1/70 W HIT

Attachment, decorative for

| PANOS Q190 mm | 60 800 354 |
| PANOS Q250 mm | 60 800 393 |

ASKELLA decorative attachment, textured design

- High-quality transparent acrylic glass panel with special matt patterned finish
- Continues the theme of clear geometrical lines set by the square luminaire
- The special decorative cover design breaks up the light attractively
- Attachments can be retrofitted any time without using tools
- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- Please note: Not suitable for frameless version
- Cannot be used with 2/42 W TC-TEL or 1/70 W HIT

Attachment, decorative for

| PANOS Q190 mm, textured | 60 800 355 |
| PANOS Q250 mm, textured | 60 800 394 |

ASKELLA decorative frame

- High-quality decorative surround for square PANOS recessed luminaires with cover frame
- This frame design still delivers good levels of efficiency
- Attachments can be retrofitted any time without using tools
- Please note: Not suitable for frameless version
- Cannot be used with 1/70 W HIT

Attachment, decorative for

| PANOS Q190 mm, blue | 60 800 357 |
| PANOS Q190 mm, green | 60 800 359 |
| PANOS Q190 mm, orange | 60 800 358 |
| PANOS Q190 mm, transparent | 60 800 356 |
| PANOS Q250 mm, blue | 60 800 396 |
| PANOS Q250 mm, green | 60 800 398 |
| PANOS Q250 mm, orange | 60 800 397 |
| PANOS Q250 mm, transparent | 60 800 395 |
**ALYA decorative attachment**

- High-quality, square acrylic glass attachment with striking pyramid-shaped design
- Attachments can be retrofitted any time without using tools
- Please order colour filters separately
- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- Please note: Not suitable for frame-less version
- Cannot be used with 2/42 W TC-TEL or 1/70 W HIT

**Attachment, decorative for**
- PANOS Q190 mm, transparent
- PANOS Q250 mm, transparent

**Colour filter for**
- PANOS Q190 mm, blue
- PANOS Q190 mm, orange
- PANOS Q250 mm, blue
- PANOS Q250 mm, orange

Order no. 60 800 360
Order no. 60 800 399
Order no. 60 800 361
Order no. 60 800 362
Order no. 60 800 400
Order no. 60 800 401

**Other colour filters available on request.**

---

**ALYA decorative frame**

- High-quality, acrylic glass decorative surround, with a striking pyramid-shaped design
- Attachments can be retrofitted any time without using tools
- Please note: Not suitable for frame-less version
- Cannot be used with 1/70 W HIT

**Attachment, decorative for**
- PANOS Q190 mm, matt-sanded
- PANOS Q250 mm, matt-sanded

Order no. 60 800 364
Order no. 60 800 403

Colour filter for diffuse light component available on request.

---

**ATRIA decorative attachment**

- High-quality prismatic acrylic glass attachment
- Attachments can be retrofitted any time without using tools
- In order to achieve protection type IP 54 using square PANOS recessed luminaires with cover frame in closed ceilings
- Please note: Not suitable for frame-less version
- Cannot be used with 2/42 W TC-TEL or 1/70 W HIT

**Attachment, decorative for**
- PANOS Q190 mm, transparent
- PANOS Q250 mm, transparent

Order no. 60 800 368
Order no. 60 800 407

---

**ATRIA decorative frame**

- High-quality decorative surround for square PANOS recessed luminaires with cover frame
- Attachments can be retrofitted any time without using tools
- Please note: Not suitable for frame-less version
- Cannot be used with 1/70 W HIT

**Attachment, decorative for**
- PANOS Q190 mm, blue
- PANOS Q190 mm, green
- PANOS Q190 mm, orange
- PANOS Q250 mm, blue
- PANOS Q250 mm, green
- PANOS Q250 mm, orange
- PANOS Q250 mm, transparent

Order no. 60 800 370
Order no. 60 800 372
Order no. 60 800 371
Order no. 60 800 369
Order no. 60 800 409
Order no. 60 800 411
Order no. 60 800 410
Order no. 60 800 408
Decorative glass cube, frosted inside, transparent outside (suspended)

- Suspended decorative attachment for square PANOS downlights with cover frame
- Single-piece glass attachment, frosted centre, clear outside
- Decorative glass panel with 4-point metal fixing
- Attachments can be retrofitted any time without using tools
- Please note: Not suitable for frame-less version

Decorative (suspended) attachment, white cover frame for
PANOS Q190 mm 60 800 377
PANOS Q250 mm 60 800 416

Decorative (suspended) attachment, titanium cover frame for
PANOS Q190 mm 60 800 436
PANOS Q250 mm 60 800 442

Decorative (suspended) attachment, chromium cover frame for
PANOS Q190 mm 60 800 437
PANOS Q250 mm 60 800 443

Order no.

Decorative frame, frosted (suspended)

- Suspended decorative frame for square PANOS recessed luminaires with cover frame
- Single-piece glass frame, frosted
- Decorative frame with 4-point metal fixing
- Attachments can be retrofitted any time without using tools
- Please note: Not suitable for frame-less version

Decorative (suspended) attachment, white cover frame for
PANOS Q190 mm 60 800 378
PANOS Q250 mm 60 800 417

Decorative (suspended) attachment, titanium cover frame for
PANOS Q190 mm 60 800 438
PANOS Q250 mm 60 800 444

Decorative (suspended) attachment, chromium cover frame for
PANOS Q190 mm 60 800 439
PANOS Q250 mm 60 800 445

Order no.

Casting surround

- For installing PANOS Q recessed luminaires in concrete ceilings
- Two-part housing made of plastic or upper part made of galvanised steel
- Entry of cables with blanking plugs
- Housing can be fixed to iron reinforcement using special fixing flaps
- 60 800 463: do not use with emergency light when fitted with 2/42 W lamps

Concrete casting surround for Panos Q with TC lamps
PANOS Q190 mm (also for emergency lighting models) 60 800 462
PANOS Q250 mm (also for emergency lighting models) 60 800 463

Concrete casting surround for PANOS Q with HIT lamp
PANOS Q190 mm 60 800 509
Ceiling reinforcing ring

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

Order no.

Ceiling reinforcing ring for
PANOS Q190 mm 60 800 385
PANOS Q250 mm 60 800 424

Panel plates

- For installation of PANOS recessed luminaires in panel ceilings
- Sheet steel, white stove-enamelled
- Installation: using spring clips
- Special designs possible for other cut-outs and colours

Order no.

Panels plates 285 x 285 mm recessed-mounting plate for panel ceilings, for DA 190 x 190 mm 60 800 384
385 x 385 mm recessed-mounting plate for panel ceilings, for DA 250 x 250 mm 60 800 423

Ballast units HIT / HIT-DE

- Temperature-resistant low-loss ballast
- Low-noise operation
- Mains parallel p.f. corrected
- Mains voltage: 230/250 V
- Electrical connections: primary: 3-pole terminal strip with plug-in connection; secondary: 3-core cable, length 0.5 m, with Wieland plug-in socket

Order no.

Ballast unit
Ballast HIT 35 W 1.9 22 116 458
Ballast HIT / HIT-DE 70 W 1.9 22 116 461
Ballast HIT / HIT-DE 150 W 3.1 22 116 477
Ballast HIT-DE 250 W 4.4 60 800 134

Ballast units (electronic ballast) HIT / HIT-DE

- Flicker-free light
- Colour stable due to constant output
- Lamp service life extended by up to 50 %
- Mains voltage: 220/240 V
- Electrical connections: primary: 3-pole screw-terminals; secondary: 3-pole cable, length 0.5 m, with Wieland plug-in socket

Order no.

Ballast unit
Electronic ballast HIT 20 W (for HIT-TC-CE G8.5) 0.3 60 800 609
Electronic ballast HIT 20 W (for HIT-TC-CE PGJ5) 0.2 60 800 262
Electronic ballast HIT 35 W (for HIT-TC-CE PGJ5) 0.3 60 800 507
Electronic ballast HIT 2/35 W 0.5 86 458 338
Electronic ballast HIT 2/70 W 0.5 86 458 339
EVG HIT 35 W electronic ballast 0.3 86 458 184
EVG HIT / HIT-DE 70 W electronic ballast 0.3 86 458 185
EVG HIT / HIT-DE 150 W electronic ballast 0.4 86 458 186

ZUMTOBEL
### HST Ballast Units

- Housing made of sheet steel
- Mains voltage: 230 V
- With electronic ballast (60 800 135 / 60 800 136); for HST GX12 lamp
- With ballasts and electronic igniters and stabiliser (S7 001 690)
- Parallel p.f. corrected (S7 001 690)
- Electrical connections: primary: 3-pole Wieland plug-in socket; secondary: 3-core cable, length 0.5 m, with Wieland plug-in socket

### Ballast Units (Conventional Ballast) HME

- For high-pressure mercury-vapour lamps
- Housing made of aluminium with 3 cable entries
- Mains voltage: 230/240 V (reversible terminal connections)
- With ballast and electronic igniters and stabiliser
- Parallel p.f. corrected
- Connections: primary 3-pole terminal strip; secondary 3-pole terminal strip
- Can be screw-fastened

### Electronic Safety Transformers

- For 12 V halogen incandescent lamps
- Mains voltage: 230 V / 50–60 Hz
- Output voltage: 11.3 V or 11.5 V / 11.7 V
- Only externally dimmable if a dimmer for electronic transformers is used
- Connections: each connection space covered, with strain relief, primary: 2-pole terminal strip; secondary: 20–105 VA, 6-pole terminal strip
- Connections in case of speedy: primary side: 2-pole terminal strip; secondary side: 4-pole terminal strip
- Max. length of secondary cable 2 m
- Speedy transformer with lamp-saving soft start; suitable for leading-edge or trailing-edge dimming control; DC mode possible

### Safety Transformers 60/105 W

- Mains voltage: 230/250 V, 50–60 Hz
- Output voltage: 11.5 V AC
- For 12 V halogen incandescent lamps
- Reversible temperature switch, operating temperature 120 °C
- Can only be dimmed using dimmer for inductive loads
- Meets EN 60742

### Safety Transformers

- Transformer 105 W
- Transformer 60 W

### Electronic Safety Transformers Speedy

- Transformer 230-240 V / 11.5/11.7 V; 0/50/60 Hz; 50 W
- Transformer 230-240 V / 11.5/11.7 V; 0/50/60 Hz; 70 W
- Transformer 230-240 V / 11.5/11.7 V; 0/50/60 Hz; 105 W

### Accessory

- Electronic safety transformers Transformer ETR 230 V / 11.3 V; 20-105 W
- Electronic safety transformers Transformer ETR 230 V / 11.3 V; 210 W
**Safety transformers 200/300 W**

- Mains voltage: 230/250 V, 50–60 Hz
- Output voltage: 11.5 V AC
- For 12 V halogen incandescent lamps
- Short-circuit and overload protection with pushbutton release
- Can only be dimmed using dimmer for inductive loads
- Meets EN 60742

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<tr>
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<tbody>
<tr>
<td>Transformer 200 W</td>
<td>4.0</td>
<td>S7 001 170</td>
</tr>
<tr>
<td>Transformer 300 W</td>
<td>4.1</td>
<td>S7 001 180</td>
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**Cleaning cloth**

- Special cloth for cleaning reflectors

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<tr>
<td>Special cloth</td>
<td>60 800 118</td>
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Zumtobel is the internationally leading supplier of integral lighting solutions for a wide variety of applications in professional interior lighting:

Industry and Engineering
Offices and Communication
Education and Science
Presentation and Retail
Hotel and Wellness
Art and Culture
Health and Care
Sport and Leisure
Transit Areas and Parking
Orientation and Safety

We provide unique customer benefit by integrating technology, design, emotion and energy efficiency. Under the Humanergy Balance concept, we combine the best possible ergonomic lighting quality for people’s wellbeing with the responsible use of energy resources.

The company’s own sales organisations in twenty countries as well as commercial agencies in fifty other countries form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Corporate goal: We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment.
PANOS

Downlight system

Customised downlight solutions to meet any requirements.