



**ZUMTOBEL**

## **VIVO**

### **Spotlight System**

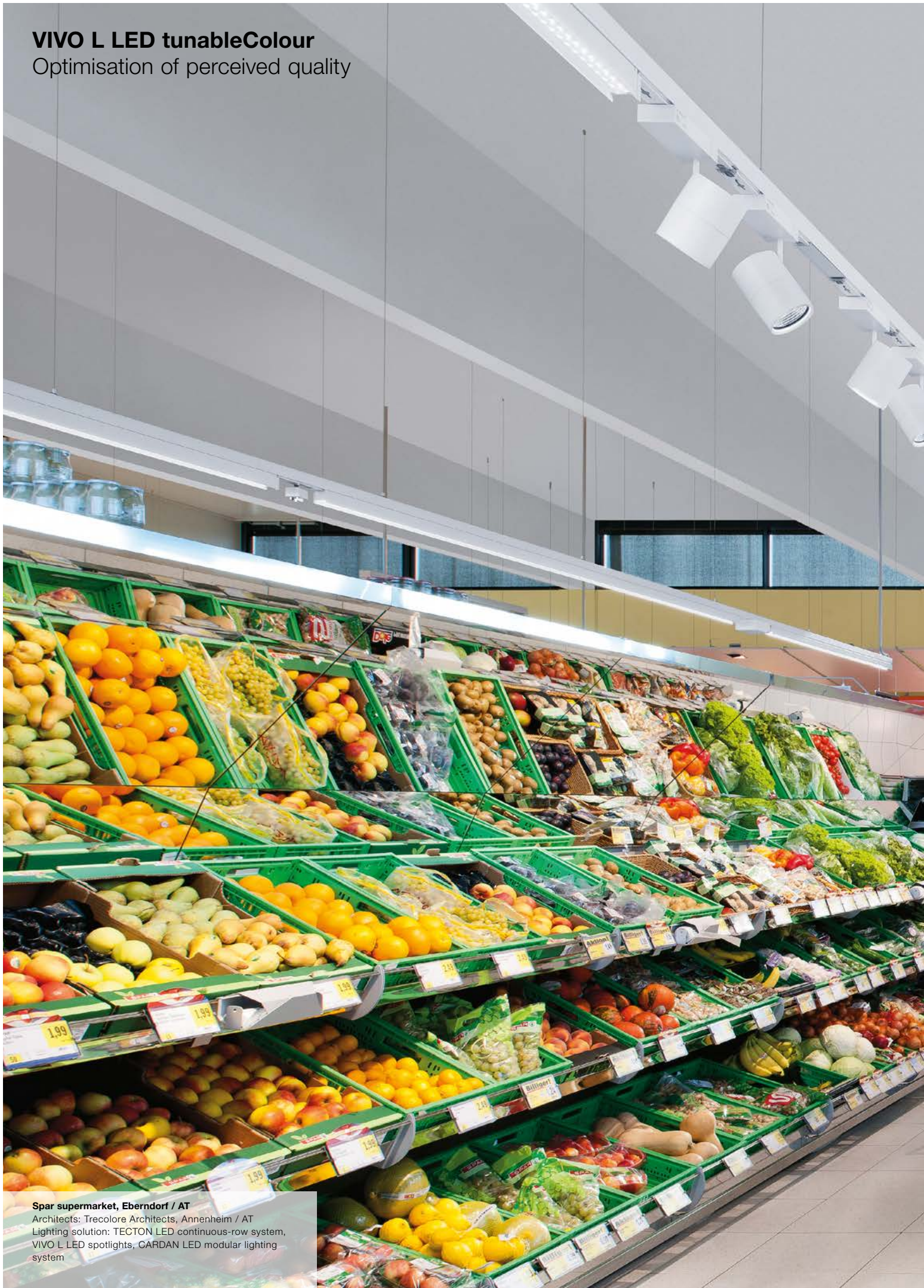
The flexible versatility of light: spotlight system with cutting-edge lamp and LED technology



[linked](#)

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

**VIVO L LED tunableColour**  
Optimisation of perceived quality



**Spar supermarket, Eberndorf / AT**  
Architects: Trecolore Architects, Annenheim / AT  
Lighting solution: TECTON LED continuous-row system,  
VIVO L LED spotlights, CARDAN LED modular lighting  
system



# Fleisch



aktuelle 1.49  
aktuelle 2.49  
aktuelle 2.09



VIVO XS LED and VIVO M LED – compact sizes with Essential Plus stableWhite



Design VIVO | EOOS

“The quest for intuitive images characterises the way in which EOOS works. VIVO blends the archetypal cylindrical shape of a spotlight with design details inspired by reinterpreting a turbine. Effective air-flow management which is especially important for LED technology actually becomes an unobtrusive but significant design feature.”



[zumtobel.com/vivo](https://zumtobel.com/vivo)

## **VIVO LED**

Integral lighting solution  
with high efficiency



# 1

## VIVO LED High lighting quality

- High-precision, uniform light distribution thanks to perfectly coordinated optical systems
- Perfectly matched high-quality LED modules and lenses:
  - tunableColour: PiLED technology and patented mixing chamber lens
    - » 10 pre-programmed points in the colour spectrum:
      - optimised for food applications, can be called up by using a rotary switch
      - » Good colour rendering (Ra > 80), high colour stability, uniform light distribution
  - Advanced stableWhite: red/white LED technology and patented mixing chamber lens
    - » Stable colour temperature of 3 000 K or 4 000 K
    - » Excellent colour rendering (Ra > 90), colour quality and colour stability, uniform light distribution
  - TGRfashion: phosphor array LED technology
    - » Stable colour temperature for brilliant colours
  - TGRfood: phosphor array LED technology
    - » Stable colour temperature optimised for baked goods, fruit, vegetables as well as meat products
  - Essential Plus stableWhite: phosphor array LED technology
    - » Stable colour temperature of 3 000 K or 4 000 K
    - » Good colour rendering (Ra 90), high efficiency, powerful pinpoint accent lighting
  - Essential stableWhite: phosphor array LED technology
    - » Stable colour temperature of 3 000 K or 4 000 K
    - » Excellent efficiency and powerful pinpoint accent lighting (Ra > 80)
- Aluminium-sputtered high-precision polycarbonate reflectors for brilliant highlighting
- Gentle lighting without any IR or UV radiation

# 2

## VIVO LED Maximum efficiency. Minimum energy consumption

- Impressively efficient: with luminaire efficiency levels of 50 to 88 lumens per watt, VIVO LED outperforms frequently used conventional spotlight technologies
- High luminous flux levels of 900 to 4 600 lumens enable efficient replacement of high-pressure discharge lamps up to 50 W
- Dimmable from 10 to 100 % at constant colour temperatures
- **eco<sup>+</sup>**



### 3 **VIVO LED** Sustainable technology concept

- LED-optimised design for passive and active cooling of high-performance LED modules
- Reliability thanks to constant lighting quality throughout the luminaire's service life
- Maintenance-free operation for shop/retail applications with a service life of 50 000 hours at 70 % luminous flux
- Future-proof concept: Zumtobel's LED platform ensures integration of state-of-the-art LED modules at all times
- 5-year guarantee

### 4 **VIVO LED** Variety of options for application-specific lighting solutions

- For complete lighting solutions with various requirements – can be individually adjusted to room height, ceiling structure and illuminance level
- For various room heights: compact sizes XS and M for rooms of low to average height; size L with luminous flux levels of up to 4 600 lumens for illuminating rooms with high ceilings
- Depending on the lighting task: tunableColour for illuminating fresh food, or stableWhite, switchable or controllable via DALI or rotary switch on track-box adapter
- Task-specific beam angle: from spot (> 12°) to wideflood (> 39°)
- Recessed into ceiling and mounted on 3-phase tracks or the TECTON continuous-row lighting system



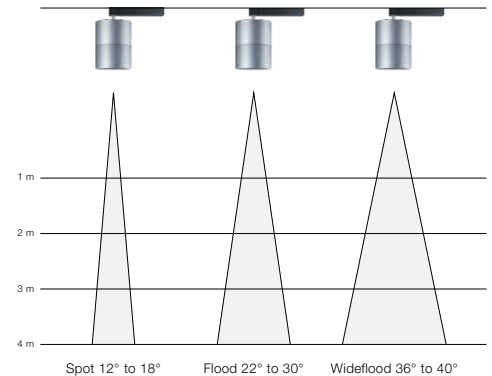


# VIVO LED

Excellent lighting quality

## High-precision accent lighting

High-grade reflectors with three-dimensional facets and sputtered surface make this compact LED light source perfect for high-precision, uniform accent lighting in all sizes. Thanks to the patented mixing chamber lens, the light of the two tunableColour and Advanced stableWhite versions of VIVO L is perfectly directed into the reflector, which results in uniform light distribution with very good colour rendering. In contrast, the especially compact and efficient phosphor array LED light sources fitted in the Essential Plus stableWhite and Essential stableWhite spotlight versions are ideal for creating extremely narrow-beam patterns for pinpoint lighting.



## Unique technical lighting systems

- Advanced stableWhite VIVO L LED / tunableColour VIVO L LED



- 1 | High-power LED module (three-channel PiLED and red/white LED technologies) for excellent quality of spectral distribution
- 2 | Patented mixing chamber lens for perfect uniformity
- 3 | Aluminium-sputtered high-precision reflector made of plastic, for high brilliance and precision

Advanced stableWhite

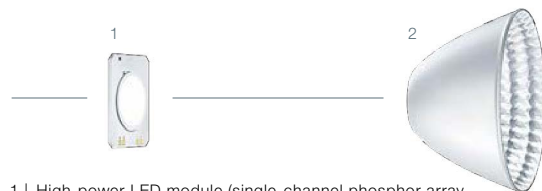
**Ra > 90**

tunableColour

**Ra > 80**

With an excellent colour rendering index of Ra > 90, VIVO L LED Advanced stableWhite is able to render virtually the entire light spectrum over the entire range. For the tunableColour model, ten ideal points in the colour spectrum have been pre-programmed for fresh foods in retail applications.

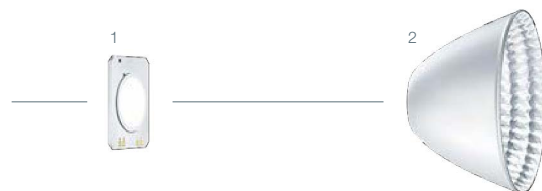
- Essential Plus stableWhite VIVO XS, VIVO M and VIVO L LED / TGRfashion and TGRfood VIVO M LED



- 1 | High-power LED module (single-channel phosphor array LED technology) for very good colour rendering
- 2 | Aluminium-sputtered high-precision reflector made of plastic

**Ra 90**

- Essential stableWhite VIVO M and VIVO L LED



- 1 | High-power LED module (single-channel phosphor array LED technology) for excellent efficiency
- 2 | Aluminium-sputtered high-precision reflector made of plastic

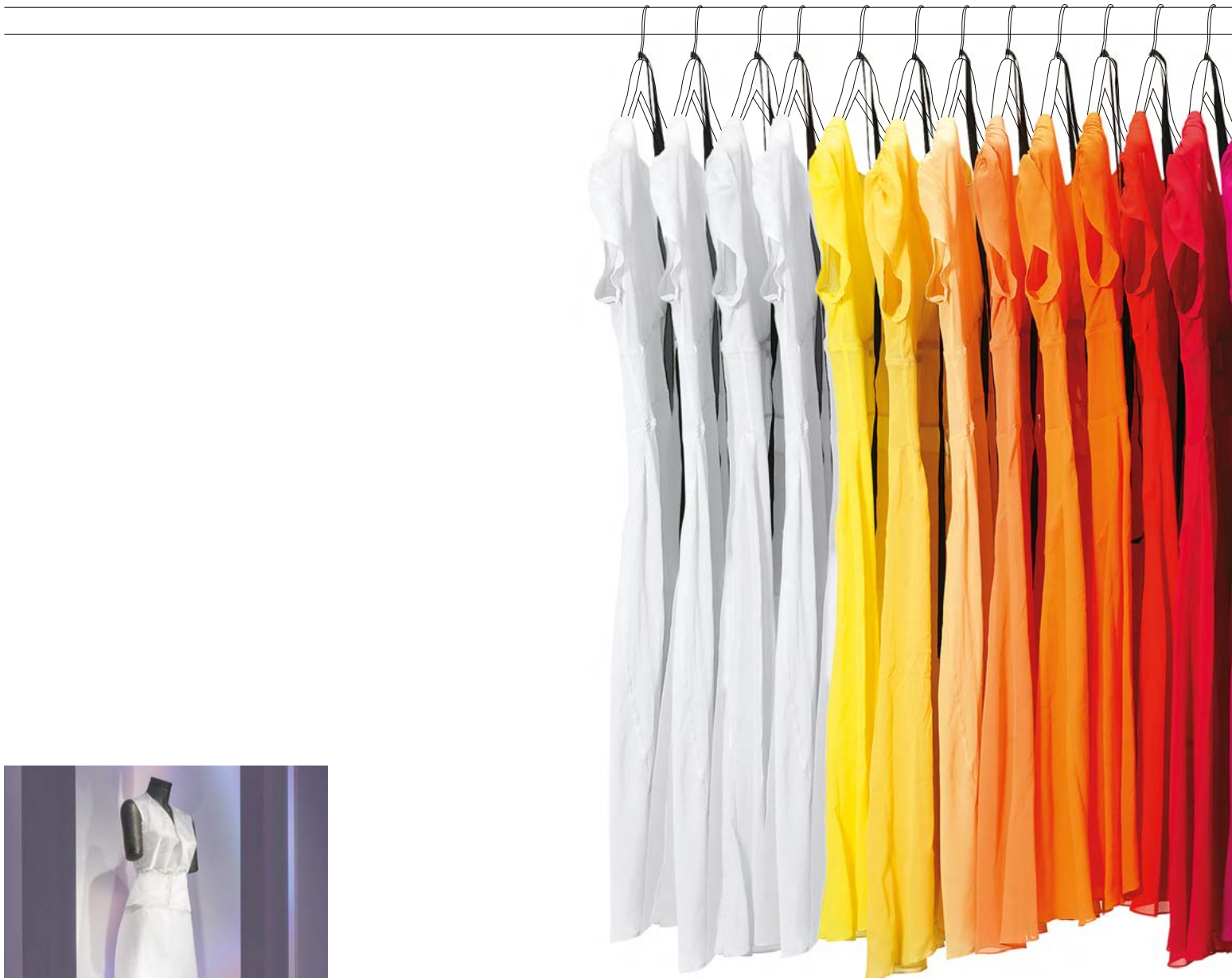
**Ra > 80**

### Gentle light that boosts sales

Professional LED lighting solutions are gentle on products sensitive to light or heat while at the same time creating a sales-boosting ambience. Compared to metal halide lamps, LED light sources emit almost no IR or UV radiation while providing the same lighting quality. VIVO LED spotlights are characterised by excellent colour rendering and extremely uniform light distribution. There is an appropriate light colour and colour temperature as well as a matching illuminance level for every lighting task. Unique PiLED technology, pre-programmed colour hues and high-quality lens systems facilitate sophisticated implementation.



- Groceries in fresh food departments (bread, cold meats, cheese, fruit, vegetables and ready meals) are perfectly lit by adjusting the spectral composition of the light.
- Custom lighting to suit the customer's preferences – with consistently good colour rendering in the case of VIVO LED.
- A multi-channel LED module provides flexibility on a new scale: an intuitive rotary knob rather than different reflectors and filters makes life less complicated.
- The required type of lighting is individually set by using a manual control directly on the luminaire.



### **TrueGamutRendering fashion (TGRfashion)**

LED technology for brilliant colours

Light plays a truly significant role in achieving authentic retail presentation because light is the most important component when it comes to perceiving and evaluating goods. TGRfashion technology has enabled Zumtobel to achieve new levels of shop lighting quality using LEDs. It lends a fresh quality and brilliance to white colours, but also to light and bright colours. TGRfashion displays colours with particular purity, and the LED spotlight emphasises and differentiates the various properties of different materials, resulting in a high colour rendering index. This technology has for the first time been incorporated in the size M IYON and VIVO spotlights providing a luminous flux of 2400 lm.



VIVO M LED TGRfashion



# VIVO LED

## Excellent energy efficiency

### Powerful and efficient

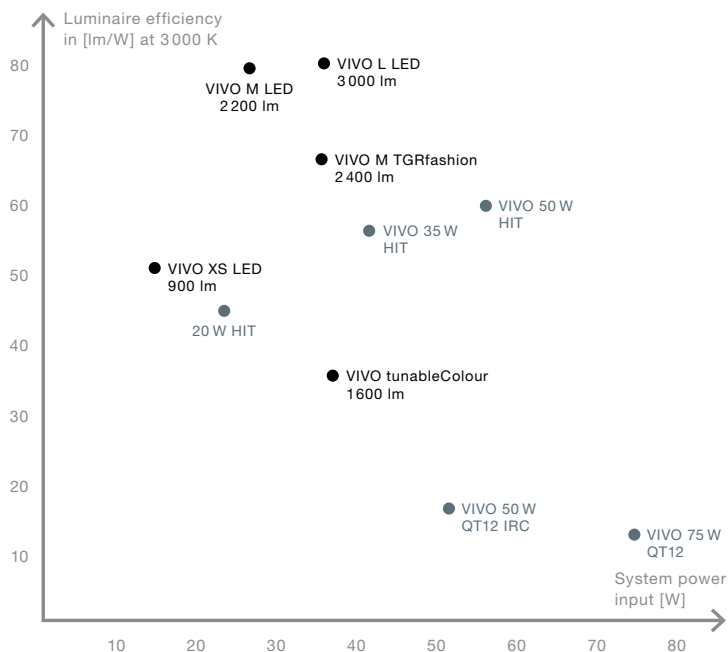
The VIVO LED spotlight, designed for attractive illumination of retail spaces and available with various luminous flux levels, is a very efficient alternative to conventional spotlights fitted with high-pressure discharge lamps.

- Replacement for up to 35 W HIT/100 W HST with filters for fresh produce: VIVO LED tunableColour spotlight with luminous flux of 1100–1600 lm
- Replacement for up to 20 W HIT or 75 W tungsten-halogen lamps: VIVO XS LED spotlight with luminous flux of 900–1100 lm
- Replacement for up to 35 W HIT or 100 W tungsten-halogen lamps: VIVO M LED spotlight with luminous flux of 1800–2 400 lm
- Replacement for up to 50 W HIT:  
VIVO L LED spotlight with luminous flux of up to 4 600 lumens

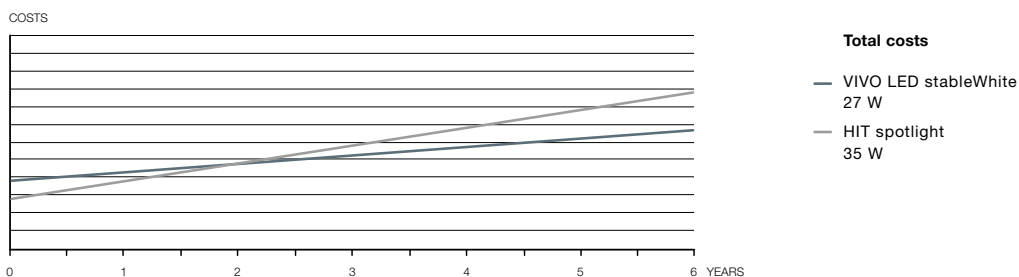
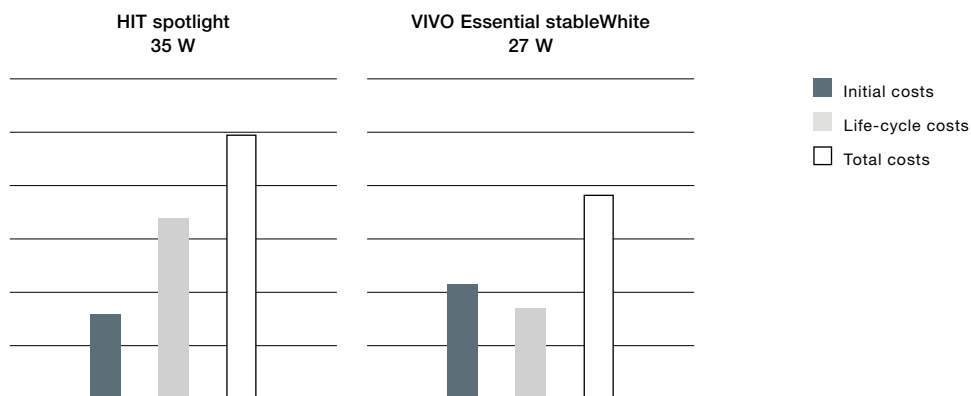
With luminaire efficiency levels of up to 88 lm/W, VIVO beats conventional HIT spotlight technology in a direct comparison as well. In addition, unlike conventional light sources, LED spotlights can be dimmed continuously from 10–100 % via DALI or track box (VIVO M), which unlocks additional potential savings of 30 % – without any loss in quality, since the colour quality remains constant across the entire dimming range.

### Comparison of spotlights

Last update: October 2013, reference value for LED: 830 (Essential)



**Cost comparison: Installation with a service life of 6 years**



- Sample calculation based on the following assumptions: 3600 hours of service per year, HIT solution with relamping twice in 6 years, not taking into account further potential savings through dimming of LED spotlights
- The costs for energy and maintenance (life-cycle costs) are reduced by 50 % as compared to a traditional HIT solution with 35 W.
- The slightly higher initial costs will be compensated for already after approx. 2 years.

**Result after six years**



## VIVO LED

Excellent colour quality and high-precision light distribution



McLaren showroom, Vienna / AT

Architects: Reisinger & Reisinger, Vienna / AT

Lighting solution: 2LIGHT Mini downlights, PANOS infinity  
downlight system, modular SUPERSYSTEM lighting system,  
VIVO spotlight system





## VIVO LED

Compact and efficient



VIVO XS LED | 19 W

### VIVO XS LED

The combination of compact LED modules with an innovative cooling system results in the reduced dimensions of VIVO XS LED. The strong point of this spotlight is to pinpoint accent lighting in smaller retail spaces and in display windows with low ceiling heights.

- Due to its energy efficiency and low-maintenance operation, the LED solution will pay for itself in less than three years, compared with conventional technology involving HIT 20 W metal halide lamps or 75 W LV halogen lamps.
- Its high-grade optical system and innovative LED technology ensure expressive accent lighting, high-quality glare control and excellent colour rendering.
- Gentle light without any UV or IR radiation protects objects against ageing processes such as fading or material changes.

VIVO XS LED | 15 W

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**Lamp**  
15 W: 900 lm and 1100 lm

**Radiation angles**  
18° spot, 30° flood



VIVO M LED | 27 W



VIVO-SL LED | 27 W

### VIVO M LED

VIVO M LED cannot fail to impress thanks to its compact dimensions and high luminous flux levels when it comes to accent lighting in shops and retail spaces with ceilings of average height. In VIVO M LED, the ideal ratio between size and light output results from the intelligent interplay of LED modules of perfect size and an innovative cooling system.

- Especially high efficiency, dimmability and low-maintenance operation ensure that a lighting solution incorporating VIVO M LED will pay for itself in less than three years, compared with conventional technology involving 35 W metal halide lamps or 100 W LV halogen lamps.
- VIVO M LED's technology and high-grade optical system provide luminous flux levels for rooms with average ceiling height, as well as good glare control and excellent colour rendering ( $R_a > 92$ ).
- Gentle light without any UV or IR radiation protects objects against ageing processes.

VIVO M LED | 27 W | Dimmable via track box



**Light source(s)**  
27 W | up to 2300 lm  
36 W | up to 2900 lm

**Beam angles**  
15° spot, 25° flood, 36° wideflood

## VIVO L LED

Powerful both track-mounted and pendant



VIVO L LED | 36 W

### VIVO L LED

The powerful LED spotlight produces up to 4 600 lumens, replacing HIT luminaires ranging from 35 W to 50 W. VIVO L combines energy efficiency with the long service life of an LED spotlight with passive cooling. Other quality features are excellent colour rendering and variable light colours.

#### Light source(s)

36 W: up to 3 200 lm  
47 W: up to 2 700 lm  
60 W: up to 4 600 lm

#### Beam angles

15° spot, 25° flood, 36° wideflood



VIVO L LED pendant | 36 W

### **VIVO L LED pendant**

Using suspended VIVO L LED spotlights, maximum energy efficiency is achieved in display lighting. Goods can be illuminated with high precision from a short distance, resulting in a reduction of both spill light and power consumption.

**Light source(s)**  
36 W: up to 2.300 lm

**Beam angles**  
36° wideflood

## Conventional VIVO

Spotlight for tracks and continuous-row systems



VIVO S | 20 W

### VIVO S

**Ideal for smaller shops and boutiques with somewhat lower ceiling heights**

**Flexibility to cope with diverse lighting tasks** Only the well considered interplay of latest-generation discharge lamps, reflectors and accessories produces the lighting effect required for attractive display of goods. Three interchangeable reflectors with 10° spot, 25° flood and 40° wideflood radiation angles allow task-specific presentation.

**Extremely simple maintenance** All important maintenance work can be carried out intuitively without using any tools after removing the spotlight head. The light source is also directly accessible when it needs to be replaced.

#### Lamps

HIT PGJ5: 20 W



VIVO M | 50 W

### VIVO M

**Absolutely perfect for standard applications in shop windows and retail spaces**

**Uniform ceiling look** The updated, compact track-box adapter with its built-in electronic control gear always remains parallel to the track, regardless how the spotlight is aligned. This ensures an uncluttered, uniform look on the ceiling and discreetly makes the most of the spotlight's compact, unobtrusive design. Besides, it ensures proper, evenly balanced spotlight positioning.

#### Lamps

HIT-TC-CE G8.5 metal halide lamp:  
35 W, 50 W or 70 W  
QT12 low-voltage halogen lamp:  
100 W



VIVO L | 70 W

**VIVO L**

**When lots of light is needed: VIVO models for high ceilings or high illuminance levels.**

**VIVO meets TECTON** The TEC version of VIVO provides scope for particularly convenient ways of obtaining centre-stage settings. Because of the trivial installation effort involved, lamps fitted in the 11-pole TECTON continuous-row lighting system can respond flexibly to changes in the ways that sales floors are furnished. As the current conducting system is already built into the trunking, current is available along the entire length. Thus, not only can the lighting modules be installed at any position, the number of light sources can also be chosen quite individually. VIVO TEC is available in sizes M and L.

**Lamps**

HIT G12 metal halide lamp:  
35 W, 70 W, 100 W, 150 W



VIVO M TECTON | Mounted on TECTON continuous-row system

## Conventional VIVO

Pendant luminaires and  
recessed spotlights



VIVO M | Pendant

### VIVO Pendant

**Efficiency through high precision** The pendant VIVO spotlight is the ideal tool for illuminating objects precisely, providing accent lighting with little light scattering and hence saving energy. The short distance between the spotlight and the goods that are to be lit means that power requirements are also lower. Two design sizes (M/L) provide for extra flexibility.

#### Lamps

HIT-TC-CE G8.5 metal halide lamp:  
35 W or 70 W





VIVO-S D150 | Recessed

### VIVO-S, VIVO-SL

**Recessed option provides design freedom** VIVO-S can be transformed into a fully integrated downlight at the flick of a wrist. Conversely, the spotlight head can be infinitely swivelled out from its housing and rotated as required. Depending on the surroundings and the desired design effect, a version with a square recessed housing and one with a round recessed housing are available; each is available in a white or titanium-coloured finish.

VIVO-SL requires a mounting depth of just 100 mm. Hence, VIVO ceiling modules can be installed even under unfavourable spatial conditions. Roughly half the spotlight head is retractable. This astonishing mobility for a recessed luminaire makes it possible to solve a large number of accent lighting tasks straightforwardly and professionally.

#### Lamps

HIT-TC-CE G8,5 metal halide lamp:

35 W or 70 W

QT12 low-voltage halogen lamp:

100 W



## VIVO

Providing accents and directing the gaze



**Maison Ullens, Paris / FR**

Architects: OMA, Rotterdam / NL

Lighting solution: VIVO XS LED spotlights, PANOS Infinity LED downlights, modular SUPERSYSTEM lighting system, modular MICROTOOLS lighting system, CARDAN ceiling-recessed LED luminaires





VIVO M LED | 27 W

**Intuitive handling** The new track box makes operation even simpler. The mechanism is intuitive and makes it possible to fix the spotlight easily and securely. Phase selection is implemented via a lateral rotary switch, and is also possible during operation.



Insert track box



Lock from both sides



Select phase via rotary switch



## **The new unit:** spotlight head and track box

### **Linear design, improved functionality**

Due to the progressive miniaturisation of the light sources and the associated reduction in the size of spotlight heads, the track box is becoming an even more important design feature. The VIVO spotlight is equipped with a redesigned track box: the mechanism disappears completely into the 3-phase track, making its visible dimensions look particularly small. The track box design is linear and also minimalist. It always remains parallel to the track regardless of how the spotlight is aligned. Implementing DALI functionality in the 3-phase track has also improved flexibility when modernising existing installations. A DALI version of the spotlight is available for this purpose.

# Spotlight system

with one-piece construction



## VIVO XS LED

LED spotlight with reduced dimensions and passive cooling. Due to excellent colour rendering, adequate alternative to conventional solutions using LV halogen lamps.

**Size**  
Ø 65 mm

**Lamp**  
15 W

**Colour temperatures**  
3000 K and 4000 K



## VIVO M LED

Compact, dimmable spotlight with passive cooling that is able to impress thanks to its efficiency, good glare control and excellent colour rendering. Perfect alternative to conventional systems using 35 W metal halide lamps.

**Size**  
Ø 95 mm

**Lamp**  
27 W

**Colour temperatures**  
3000 K and 4000 K



## VIVO L LED

High-output spotlight with passive cooling that boasts high luminous flux levels, excellent colour rendering and variable light colours. Innovative alternative to solutions using 35 W to 50 W metal halide lamps.

**Size**  
Ø 130 mm

**Lamp**  
stableWhite: 27, 36, 47 and 60 W  
tunableColour: 36–44 W

**Colour temperatures**  
stableWhite: 3000 K and 4000 K  
tunableColour:  
10 different colour points



**VIVO S HIT**

Unobtrusive spotlight with compact dimensions for illuminating areas with low ceiling heights.

**Size**  
Ø 80 mm

**Lamp**  
HIT PGJ5: 20 W



**VIVO M HIT/QT**

Standard-sized spotlight for rooms with normal ceiling heights.

**Size**  
Ø 100 mm

**Lamps**  
QT-LP: 100 W  
HIT-TC-CE G8,5:  
35, 50 or 70 W



**VIVO L**

High-output spotlight for illuminating rooms with high ceilings.

**Size**  
Ø 130 mm

**Lamp**  
HIT-CE G12: 35 W, 70 W and 100 W



NEW



**VIVO L LED pendant**

High-precision, energy-efficient display lighting, perfect for illuminating fresh food.

**Size**

Ø 130 mm

**Light source(s)**

TGRfood: 36 W

**Colour temperature**

TGRfood (baked goods, cold meat)



**VIVO pendant**

Alternative cylindrical design version.

**Size**

Ø 100 mm

Ø 130 mm

**Lamp**

HIT-TC: 35 W or 70 W

LED: can be ordered as custom solution



**VIVO-SL LED**

Semi-recessed directional spotlight for suspended ceilings.

**Size**

Ø 95 mm

**Lamp**

27 W



**VIVO-S/VIVO-SL HIT/QT**

Recessed downlight version for suspended ceilings.

**Size**

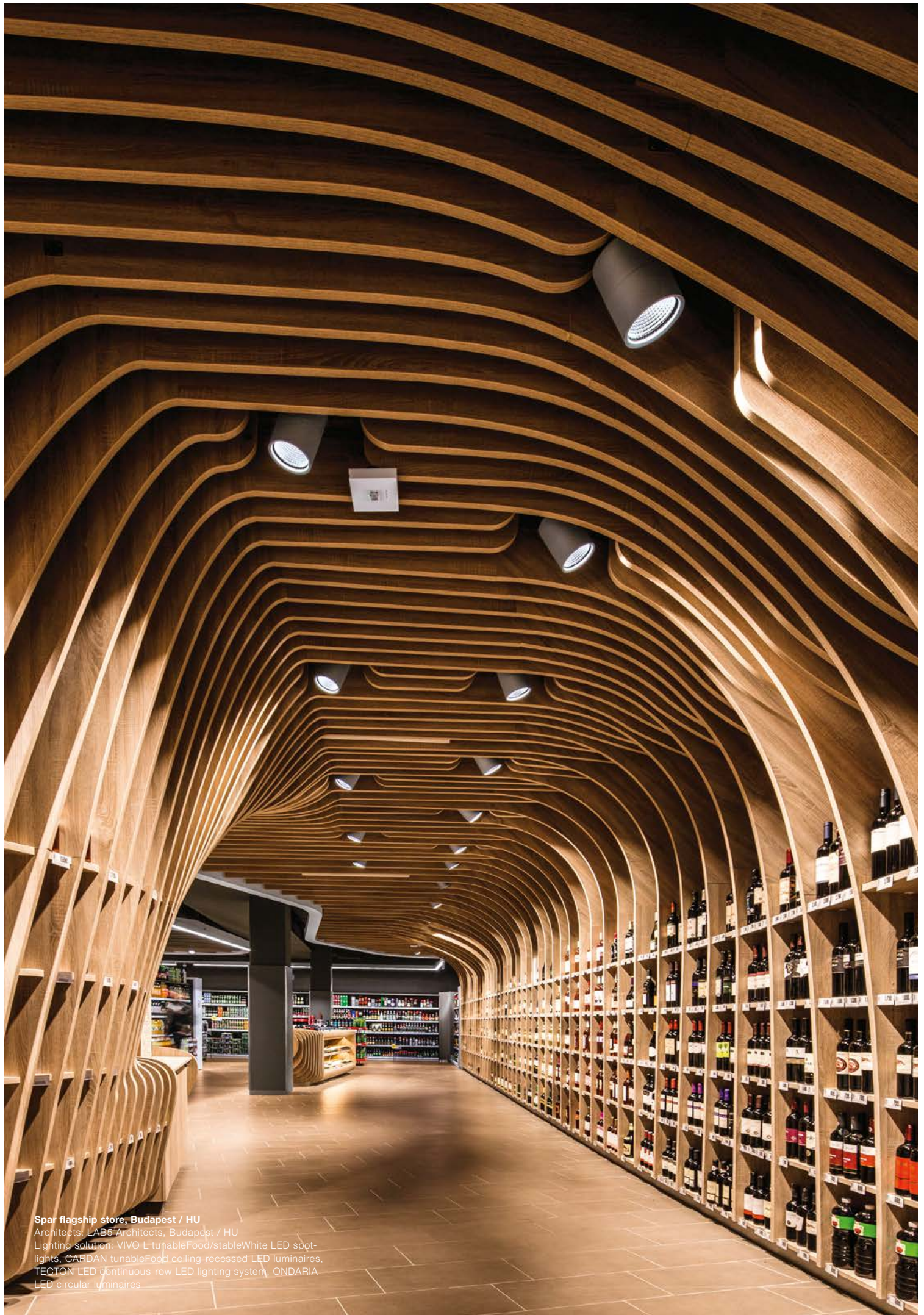
Ø 100 mm

**Lamps**

QT-LP: 100 W

HIT-TC: 70 W





**Spar flagship store, Budapest / HU**  
Architects: LAB6 Architects, Budapest / HU  
Lighting solution: VIVO L tunableFood/stableWhite LED spotlights, CARDAN tunableFood ceiling-recessed LED luminaires, TECTON LED continuous-row LED lighting system, ONDARIA LED circular luminaires

**VIVO**  
Applications





# VIVO

## Spotlight system



### VIVO XS LED

LED spotlight with reduced dimensions and passive cooling. Due to excellent colour rendering, adequate alternative to conventional solutions using LV halogen lamps.



### VIVO S HIT

Unobtrusive spotlight with compact dimensions for illuminating areas with low ceiling heights.



### VIVO M LED

Compact, dimmable spotlight with passive cooling that is able to impress thanks to its efficiency, good glare control and excellent colour rendering. Perfect alternative to conventional systems using 35 W metal halide lamps.



### VIVO M HIT/QT

Standard-sized spotlight for rooms with normal ceiling heights.



### VIVO L LED

High-output spotlight with passive cooling that boasts high luminous flux levels, excellent colour rendering and variable light colours. Innovative alternative to solutions using 35 W to 50 W metal halide lamps



### VIVO L

High-output spotlight for illuminating rooms with high ceilings.



### VIVO Pendant

Alternative cylindrical design version.



### VIVO L LED pendant

Ideal display lighting tool with high precision, creating accents by little spill light and saving energy in the process. TGRfood (baked good, cold meat) optimised for illuminating fresh food



### VIVO-SL LED

Semi-recessed directional spotlight for suspended ceilings.



### VIVO-S HIT/QT

Recessed downlight version for suspended ceilings.



### VIVO-SL HIT/QT

Recessed downlight version for suspended ceilings.



# VIVO XS

## VIVO XS LED (Essential+ stableWhite)



- “Essential+ stableWhite” miniature LED spot with stabilized colour temperature (warm white / neutral white)
- Optimized for efficient and uniform accent lighting for short distances in confined spaces, shops and salesrooms
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate Zumtobel Trackbox adapter
- Spotlight head rotates through 360°, pivots through 90°
- Die-cast aluminium spotlight housing
- Colour: white or silver microtextured paint finish
- Black polycarbonate front ring, for fitting accessories
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- stableWhite colour temperature: 3 000 K (LED930: warm white), 4 000 K (LED840: neutral white)
- Colour rendering: Ra 90 (LED930) or Ra 80 (LED840)
- Luminaire luminous flux: 870–950 lm
- Luminaire efficiency: 58–63 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- horizontal and vertical wall mounting is permissible
- Not suitable for point outlets

### 3-phase LED spotlight, flood (with universal adapter)

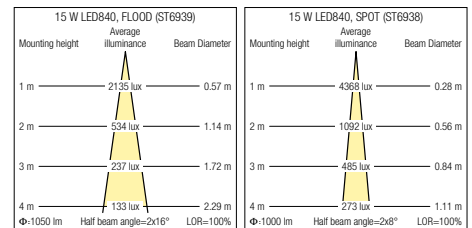
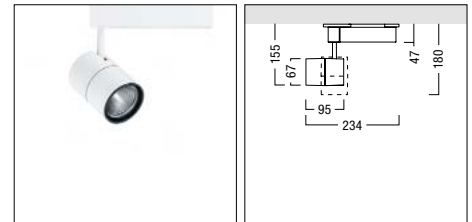
	kg	Order no.
15 W LED840 flood black	0,7	62 906 302
15 W LED840 flood black	0,7	62 906 300
15 W LED840 flood silver	0,7	60 712 792
15 W LED840 flood white	0,7	60 712 791
15 W LED930 flood white	0,7	60 712 787
15 W LED930 flood silver	0,7	60 712 788

### 3-phase LED spotlight, spot (with universal adapter)

15 W LED840 spot black	0,7	62 906 301
15 W LED840 spot black	0,7	62 906 299
15 W LED840 spot silver	0,7	60 712 790
15 W LED840 spot white	0,7	60 712 789
15 W LED930 spot white	0,7	60 712 785
15 W LED930 spot silver	0,7	60 712 786

### Accessory

Interchangeable reflector, spot	60 700 346
Interchangeable reflector, flood	60 700 347
Soft-outline lens	60 700 341
Black Anti-glare ring	60 700 340

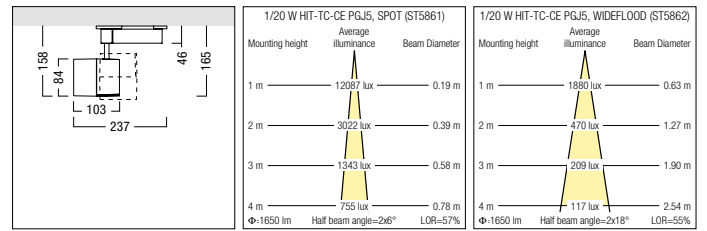


VIVO S HIT-TC-CE PGJ5



- Zumtobel Trackbox adapter of die-cast aluminium and polycarbonate
- Spotlight head rotates through 360°, pivots through 90°
- Self-locking ball-and-socket joint, spotlight head easily adjusted using thermally insulated clip (Press & Move technique)
- Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
- Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
- Protective glass panel can be replaced by blocking filter
- With electronic ballast (power factor: 0.5), in separate TRACKBOX adapter
- Lamp(s): HIT-TC-CE (PHILIPS CDM-Tm 20 W)
- Mains voltage: 220–240 V / 50/60 Hz
- Must only be installed horizontally on the wall
- Wall-mounting not permissible
- Not suitable for point outlets

	kg	Order no.	Order no.
<b>Spotlight with 3-circuit adaptor flood (with universal adapter)</b>		<i>white</i>	<i>silver</i>
1/20 W HIT-TC-CE PGJ5 flood	0,8	60 711 616	60 711 617
1/20 W HIT-TC-CE PGJ5 wideflood	0,8	60 711 618	60 711 619
<b>Spotlight with 3-circuit adaptor spot (with universal adapter)</b>		<i>white</i>	<i>silver</i>
1/20 W HIT-TC-CE PGJ5 spot	0,8	60 711 614	60 711 615
1/20 W HIT-TC-CE PGJ5 super spot	0,8	60 711 620	60 711 621
<b>Accessory</b>			
Barn doors, black	1,0		60 700 080
Interchangeable reflector flood			60 700 069
Interchangeable reflector spot			60 700 068
Interchangeable reflector superspot			60 700 186
Interchangeable reflector wideflood			60 700 070
IR/UVA blocking filter			60 700 026
Lamp HIT-TC-CE 20 W PGJ5 (PHILIPS CDM-Tm)			24 145 650
Protective cover			60 700 035
UVA blocking filter			60 700 023



# VIVO M

## VIVO M LED (Essential stableWhite)



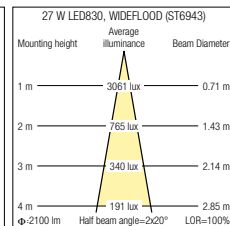
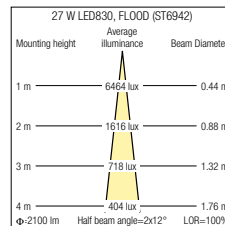
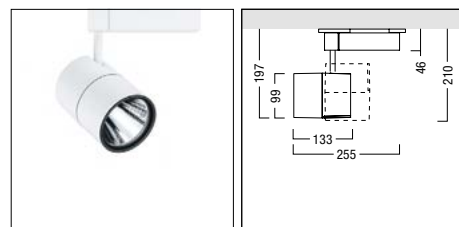
- “Essential stableWhite” LED spotlight with stabilised colour temperature (warm white/neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate Zumtobel Trackbox adapter
- Spotlight head rotates through 360°, pivots through 90°
- Die-cast aluminium spotlight housing
- Finish: silver-look, matt black or white microtextured paint
- Black polycarbonate front ring provides excellent glare control
- Front ring serves for accommodation of accessories
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- stableWhite colour temperature: 3 000 K (LED830: warm white) or 4 000 K (LED840: neutral white)
- Colour rendering index: Ra > 80
- Luminaire luminous flux: 2 200–2 400 lm
- Luminaire efficiency: 81–89 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- Must only be installed horizontally on the wall
- Not suitable for point outlets
- Surface-mount model available on request

### 3-phase LED spotlight, flood (with universal adapter)

	kg	Order no.
27 W LED830 flood silver	1,6	60 712 794
27 W LED830 flood black	1,6	60 712 795
27 W LED830 flood white	1,6	60 712 793
27 W LED830 wideflood silver	1,6	60 712 797
27 W LED830 wideflood black	1,6	60 712 798
27 W LED830 wideflood white	1,6	60 712 796
27 W LED840 flood silver	1,6	60 712 800
27 W LED840 flood black	1,6	60 712 801
27 W LED840 flood white	1,6	60 712 799
27 W LED840 wideflood silver	1,6	60 712 803
27 W LED840 wideflood black	1,6	60 712 804
27 W LED840 wideflood white	1,6	60 712 802

### Accessory

Interchangeable reflector spot	60 700 274
Interchangeable reflector flood	60 700 275
Interchangeable reflector wideflood	60 700 278
Interchangeable reflector with high-contrast aperture	60 700 345
Oval outline lens 50°	60 700 344
Soft-outline lens	60 700 343
Black Anti-glare ring	60 700 342





|...| Shared properties VIVO M LED

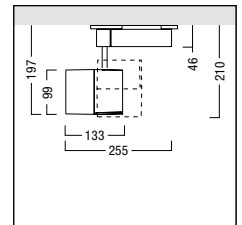
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate Zumtobel Trackbox adapter
- Spotlight head rotates through 360°, pivots through 90°
- Die-cast aluminium spotlight housing
- Black polycarbonate front ring provides excellent glare control
- Front ring serves for accommodation of accessories
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- Mains voltage: 220–240 V / 50/60 Hz
- Must only be installed horizontally on the wall
- Not suitable for point outlets
- Surface-mount model available on request
- Please note: L3+DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track

VIVO M LED TGR (True Gamut Rendering)



- |...|
- LED spotlight with Ra >90 colour rendering in all colour spectra, optimised for efficient accent lighting in shops and sales spaces
- True Gamut Rendering (TGR) enables lively colour effects particularly with white and coloured apparel
- Colour: matt black and white microtextured paint finish
- Colour temperature: 3 000 K (LED930: warm white)
- Colour rendering index: Ra > 90
- Luminaire luminous flux: 2 400 lm
- Luminaire efficiency: 67 lm/W
- Dimmable Dali version: illuminance level has 5–100 % dimming adjustment

	kg	Order no.	Order no.
<b>3-phase LED spotlight, flood (with universal adapter)</b>		<i>white</i>	<i>black</i>
36 W LED930 TGR flood	1,6	60 713 169	60 713 168
36 W LED930 TGR wideflood	1,6	60 713 171	60 713 170
<b>3-phase LED spotlight, spot (with universal adapter)</b>		<i>white</i>	<i>black</i>
36 W LED930 TGR spot	1,6	60 713 167	60 713 166
<b>L3+DALI LED spotlight, flood (including Universal adapter)</b>		<i>white</i>	<i>black</i>
36 W LED930 TGR flood, dimmable Dali only	1,6	60 713 175	60 713 174
36 W LED930 TGR wideflood, dimmable Dali only	1,6	60 713 177	60 713 176
<b>L3+DALI LED spotlight, spot (including Universal adapter)</b>		<i>white</i>	<i>black</i>
36 W LED930 TGR spot, dimmable Dali only	1,6	60 713 173	60 713 172
<b>Accessory</b>			
Black Anti-glare ring			60 700 342
Interchangeable reflector flood			60 700 275
Interchangeable reflector spot			60 700 274
Interchangeable reflector wideflood			60 700 278
Interchangeable reflector with high-contrast aperture			60 700 345
Oval outline lens 50°			60 700 344
Soft-outline lens			60 700 343



VIVO M

VIVO M LED (Essential+ stableWhite)



- [...]
- LED spotlight "Essential+ stableWhite" with stabilised colour temperature (warm white / neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Finish: silver-look, matt black or white microtextured paint
- stableWhite colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: neutral white)
- Colour rendering index: Ra 90
- Luminaire luminous flux: 1 800–2 000 lm
- Luminaire efficiency: 66–74 lm/W
- 5 to 100 % illuminance adjustment possible using rotary potentiometer or dimmable Dali only

3-phase LED spotlight, flood (with universal adapter)

	kg	Order no.
27 W LED930 flood silver	1,6	60 712 817
27 W LED930 flood black	1,6	60 712 818
27 W LED930 flood white	1,6	60 712 816
27 W LED930 wideflood silver	1,6	60 712 820
27 W LED930 wideflood black	1,6	60 712 821
27 W LED930 wideflood white	1,6	60 712 819
27 W LED940 flood silver	1,6	60 712 826
27 W LED940 flood black	1,6	60 712 827
27 W LED940 flood white	1,6	60 712 825
27 W LED940 wideflood silver	1,6	60 712 829
27 W LED940 wideflood black	1,6	60 712 830
27 W LED940 wideflood white	1,6	60 712 828

3-phase LED spotlight, spot (with universal adapter)

27 W LED930 spot silver	1,6	60 712 814
27 W LED930 spot black	1,6	60 712 815
27 W LED930 spot white	1,6	60 712 813
27 W LED940 spot silver	1,6	60 712 823
27 W LED940 spot black	1,6	60 712 824
27 W LED940 spot white	1,6	60 712 822

L3+DALI LED spotlight, flood (including Universal adapter)

*dimmable Dali only*

27 W LED930 flood, silver	1,6	60 712 835
27 W LED930 flood, black	1,6	60 712 836
27 W LED930 flood, white	1,6	60 712 834
27 W LED930 wideflood, silver	1,6	60 712 838
27 W LED930 wideflood, black	1,6	60 712 839
27 W LED930 wideflood, white	1,6	60 712 837
27 W LED940 flood, silver	1,6	60 712 844
27 W LED940 flood, black	1,6	60 712 845
27 W LED940 flood, white	1,6	60 712 843
27 W LED940 wideflood, white	1,6	60 712 846
27 W LED940 wideflood, silver	1,6	60 712 847
27 W LED940 wideflood, black	1,6	60 712 848

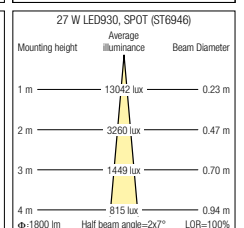
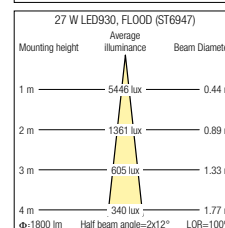
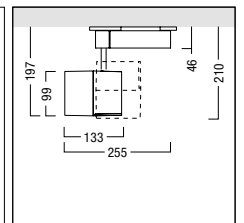
L3+DALI LED spotlight, spot (including Universal adapter)

*dimmable Dali only*

27 W LED930 spot, silver	1,6	60 712 832
27 W LED930 spot, black	1,6	60 712 833
27 W LED930 spot, white	1,6	60 712 831
27 W LED940 spot, silver	1,6	60 712 841
27 W LED940 spot, black	1,6	60 712 842
27 W LED940 spot, white	1,6	60 712 840

Accessory

Interchangeable reflector spot	60 700 274
Interchangeable reflector flood	60 700 275
Interchangeable reflector wideflood	60 700 278
Interchangeable reflector with high-contrast aperture	60 700 345
Oval outline lens 50°	60 700 344
Soft-outline lens	60 700 343
Black Anti-glare ring	60 700 342



[...] Shared properties VIVO M

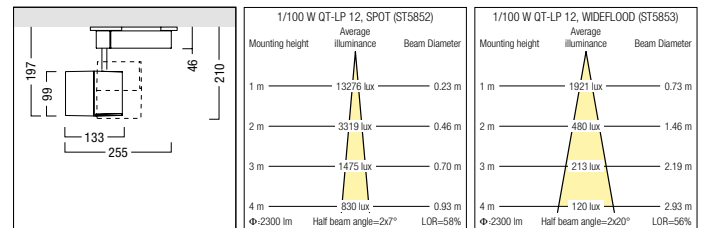
- Zumtobel Trackbox adapter of die-cast aluminium and polycarbonate
- Spotlight head rotates through 360°, pivots through 90°
- Spotlight surround made of 2-piece diecast aluminium; optional microtextured finishes: white or silver
- Not suitable for point outlets
- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)

VIVO M QT 12



- [...]
- Specular reflector made of anodised highest-grade aluminium, silver colour
- With electronic safety transformer 35–105 W, in separate TRACKBOX adapter
- Overload protection
- Overtemperature protection with power feedback control
- Mains voltage: 230–240 V / 50/60 Hz
- Must only be installed horizontally on the wall
- External dimming only permitted using dimmers for electronic transformers (trailing edge dimmers)
- Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track

	kg	Order no.	Order no.
<b>Spotlight with 3-circuit adaptor flood (with universal adapter)</b>		<i>white</i>	<i>silver</i>
1/100 W QT-LP 12 GY6,35 flood	1,2	60 712 155	60 712 156
1/100 W QT-LP 12 GY6,35 wideflood	1,2	60 712 157	60 712 158
<b>Spotlight with 3-circuit adaptor spot (with universal adapter)</b>		<i>white</i>	<i>silver</i>
1/100 W QT-LP 12 GY6,35 spot	1,2	60 712 153	60 712 154
<b>L3+DALI spotlight, flood (with Universal adapter)</b>		<i>white</i>	<i>silver</i>
1/100 W QT-LP 12 GY6,35 flood, dimmable DALI	1,2	60 712 161	60 712 162
1/100 W QT-LP 12 GY6,35 wideflood, dimmable DALI	1,2	60 712 163	60 712 164
<b>L3+DALI spotlight, spot (with Universal adapter)</b>		<i>white</i>	<i>silver</i>
1/100 W QT-LP 12 GY6,35 spot, dimmable Dali	1,2	60 712 159	60 712 160
<b>Accessory</b>			
Barn doors, black			60 700 081
Interchangeable reflector flood, silver			60 700 072
Interchangeable reflector spot, silver			60 700 071
Interchangeable reflector superspot, silver			60 700 187
Interchangeable reflector very wideflood, silver			60 700 212
Interchangeable reflector wideflood, silver			60 700 073
IR/UVA blocking filter			60 700 084
Protective cover			60 700 085
UVA blocking filter			60 700 083



VIVO M

VIVO M HIT-TC-CE G8.5



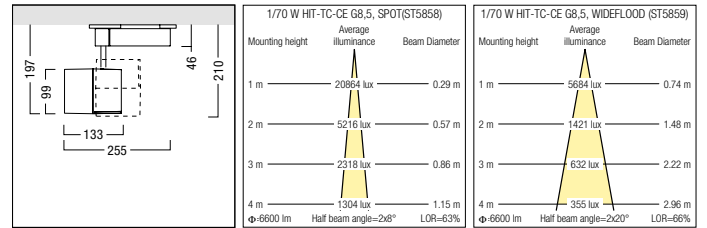
- [...]
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - With electronic ballast, in separate TRACKBOX adapter
  - Mains voltage: 220–240 V / 50/60 Hz
  - Wall-mounting not permissible

	kg	Order no.	Order no.
<b>Spotlight with 3-circuit adaptor flood (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
1/35 W HIT-TC-CE G8,5 flood	1,2	60 712 141	60 712 142
1/35 W HIT-TC-CE G8,5 wideflood	1,2	60 712 143	60 712 144
1/50 W HIT-TC-CE G8,5 flood	1,2	60 712 629	60 712 628
1/50 W HIT-TC-CE G8,5 wideflood	1,2	60 712 631	60 712 630
1/70 W HIT-TC-CE G8,5 flood	1,2	60 712 149	60 712 150
1/70 W HIT-TC-CE G8,5 wideflood	1,2	60 712 151	60 712 152

	kg	Order no.	Order no.
<b>Spotlight with 3-circuit adaptor spot (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
1/35 W HIT-TC-CE G8,5 spot	1,2	60 712 139	60 712 140
1/35 W HIT-TC-CE G8,5 superspot	1,2	60 712 137	60 712 138
1/50 W HIT-TC-CE G8,5 spot	1,2	60 712 627	60 712 626
1/70 W HIT-TC-CE G8,5 spot	1,2	60 712 147	60 712 148
1/70 W HIT-TC-CE G8,5 superspot	1,2	60 712 145	60 712 146

Accessory

Anti-glare cylinder, black (for screening the lamp)	60 700 098
Barn doors, black	60 700 081
Blocking filter for meat and cold meat (M+CM)	60 700 182
Interchangeable reflector flood, gold	60 700 180
Interchangeable reflector flood, silver	60 700 072
Interchangeable reflector spot, gold	60 700 179
Interchangeable reflector spot, silver	60 700 071
Interchangeable reflector superspot, silver	60 700 187
Interchangeable reflector very wideflood, gold	60 700 213
Interchangeable reflector very wideflood, silver	60 700 212
Interchangeable reflector wideflood, gold	60 700 181
Interchangeable reflector wideflood, silver	60 700 073
IR/UVA blocking filter	60 700 084
Protective cover	60 700 085
UVA blocking filter	60 700 083



[...] Shared properties VIVO L

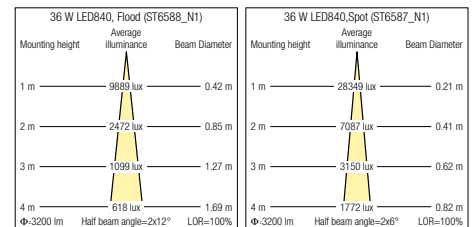
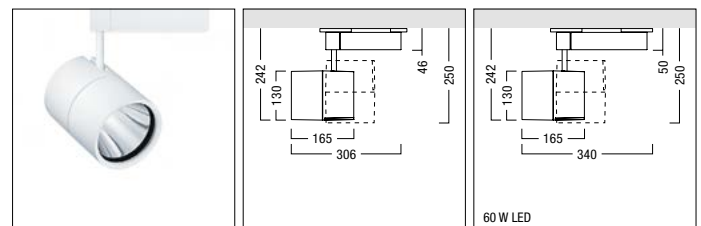
- Spotlight head rotates through 360°, pivots through 90°
- Spotlight surround made of 2-piece diecast aluminium; optional microtextured finishes: white or silver
- Mains voltage: 220–240 V / 50/60 Hz
- Wall-mounting not permissible
- Not suitable for point outlets

**VIVO L LED (Essential stableWhite)**



- [...]
- “Essential stableWhite” LED spotlight with stabilised colour temperature (warm white/neutral white)
- Optimised for efficient and uniform accent lighting in shops and showrooms
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate Zumtobel Trackbox adapter
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- stableWhite colour temperature: 3 000 K (LED830: warm white) or 4 000 K (LED840: neutral white)
- Colour rendering index: Ra > 80
- Luminaire luminous flux: 3 000–3 200 lm (36 W)
- Luminaire luminous flux: 3 800–4 600 lm (60 W)
- Luminaire efficiency: 83–89 lm/W (36 W)
- Luminaire efficiency: 63–77 lm/W (60 W)
- Dimmable Dali version: illuminance level has 5–100 % dimming adjustment
- Please note: L3+DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track

	kg	Order no.	Order no.
<b>3-phase LED spotlight, flood (with universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED830 flood	1,9	60 713 014	60 713 015
36 W LED830 wideflood	1,9	60 713 016	60 713 017
36 W LED840 flood	1,9	60 713 020	60 713 021
36 W LED840 wideflood	1,9	60 713 022	60 713 023
60 W LED830 flood	1,9	60 713 110	60 713 111
60 W LED830 wideflood	1,9	60 713 112	60 713 113
60 W LED840 flood	1,9	60 713 116	60 713 117
60 W LED840 wideflood	1,9	60 713 118	60 713 119
<b>3-phase LED spotlight, spot (with universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED830 spot	1,9	60 713 012	60 713 013
36 W LED840 spot	1,9	60 713 018	60 713 019
60 W LED830 spot	1,9	60 713 108	60 713 109
60 W LED840 spot	1,9	60 713 114	60 713 115
<b>L3+DALI LED spotlight, flood (including Universal adapter)</b>		<i>white</i>	<i>silver</i>
60 W LED830 flood, dimmable Dali only	1,9	60 713 134	60 713 135
60 W LED830 wideflood, dimmable Dali only	1,9	60 713 136	60 713 137
60 W LED840 flood, dimmable Dali only	1,9	60 713 140	60 713 141
60 W LED840 wideflood, dimmable Dali only	1,9	60 713 142	60 713 143
<b>L3+DALI LED spotlight, spot (including Universal adapter)</b>		<i>white</i>	<i>silver</i>
60 W LED830 spot, dimmable Dali only	1,9	60 713 132	60 713 133
60 W LED840 spot, dimmable Dali only	1,9	60 713 138	60 713 139
<b>Accessory</b>			
Barn doors, black			60 700 082
Honeycomb mesh, black			60 700 040
Interchangeable reflector flood			60 700 277
Interchangeable reflector spot			60 700 276
Interchangeable reflector wideflood			60 700 280
Replacement reflector flood (60 W)			60 700 352
Replacement reflector spot (60 W)			60 700 351
Replacement reflector wideflood (60 W)			60 700 353



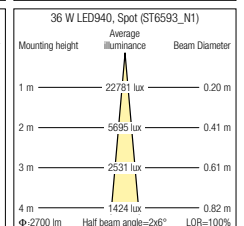
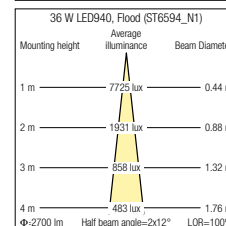
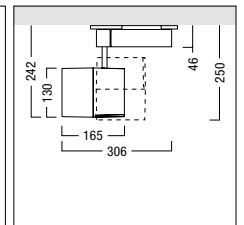
# VIVO L

## VIVO L LED (Essential+ stableWhite)



- [...]
- LED spotlight "Essential+ stableWhite" with stabilised colour temperature (warm white / neutral white)
- Optimised for efficient and uniform accent lighting in shops and show-rooms
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate Zumtobel Trackbox adapter
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white)
- Colour rendering index: Ra 90
- Luminaire luminous flux: 2 600–2 700 lm (36 W)
- Luminaire efficiency: 72–75 lm/W (36 W)
- Dimmable Dali version: illuminance level has 5–100 % dimming adjustment
- Please note: L3+DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track

	kg	Order no.	Order no.
<b>3-phase LED spotlight, flood (with universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED930 flood	1,9	60 713 026	60 713 027
36 W LED930 wideflood	1,9	60 713 028	60 713 029
36 W LED940 flood	1,9	60 713 032	60 713 033
36 W LED940 wideflood	1,9	60 713 034	60 713 035
<b>3-phase LED spotlight, spot (with universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED930 spot	1,9	60 713 024	60 713 025
36 W LED940 spot	1,9	60 713 030	60 713 031
<b>L3+DALI LED spotlight, flood (including Universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED930 flood, dimmable Dali only	1,9	60 713 062	60 713 063
36 W LED930 wide flood, dimmable Dali only	1,9	60 713 064	60 713 065
36 W LED940 flood, dimmable Dali only	1,9	60 713 068	60 713 069
36 W LED940 wide flood, dimmable Dali only	1,9	60 713 070	60 713 071
<b>L3+DALI LED spotlight, spot (including Universal adapter)</b>		<i>white</i>	<i>silver</i>
36 W LED930 spot, dimmable Dali only	1,9	60 713 060	60 713 061
36 W LED940 spot, dimmable Dali only	1,9	60 713 066	60 713 067
<b>Accessory</b>			
Barn doors, black			60 700 082
Honeycomb mesh, black			60 700 040
Interchangeable reflector flood			60 700 277
Interchangeable reflector spot			60 700 276
Interchangeable reflector wideflood			60 700 280



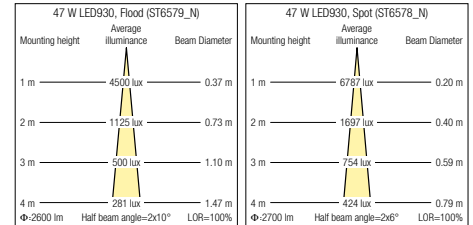
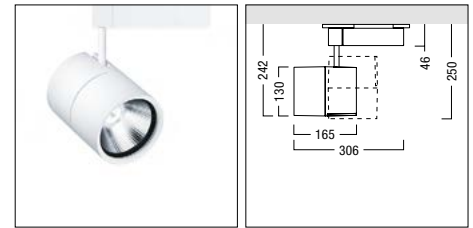
VIVO L LED (Advanced stableWhite)



- [...]
  - “Advanced stableWhite” LED spotlight with stabilised colour temperature (warm white/neutral white)
  - Optimised for efficient and uniform accent lighting in shops and showrooms
  - Patented reflector-lens system delivers precision beam pattern from spot to wideflood
  - Passive cooling achieved by innovative thermal design
  - Includes converter in separate polycarbonate Zumtobel Trackbox adapter
  - Front cylinder fixed to rear housing by twist-and-lock mechanism
  - Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
  - Service life: 50 000 h at 70 % luminous flux
  - stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white)
  - Colour rendering index: Ra 90
  - Luminaire luminous flux: 2 600–2 700 lm
  - Luminaire efficiency: 55–57 lm/W

	kg	Order no.	Order no.
<b>3-phase LED spotlight, flood (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
47 W LED930 flood	1,9	60 712 535	60 712 536
47 W LED930 wideflood	1,9	60 712 537	60 712 538
47 W LED940 flood	1,9	60 712 541	60 712 542
47 W LED940 wideflood	1,9	60 712 543	60 712 544
<b>3-phase LED spotlight, spot (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
47 W LED930 spot	1,9	60 712 533	60 712 534
47 W LED940 spot	1,9	60 712 539	60 712 540

Accessory			
Barn doors, black			60 700 082
Honeycomb mesh, black			60 700 040
Interchangeable reflector flood (47 W)			60 700 323
Interchangeable reflector spot (47 W)			60 700 324
Interchangeable reflector wideflood (47 W)			60 700 325



VIVO L

VIVO L LED (tunableFood Colour)



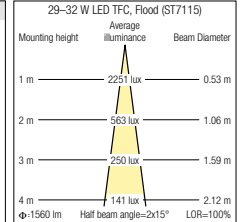
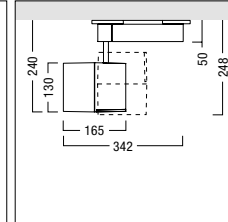
- [...]
  - High-performance, innovative “tunableFood Colour” (TFC) LED spotlight with adjustable colour temperatures
  - Optimised for efficient, uniform and customised accent lighting for food retailing
  - A rotary switch on the Trackbox can be used to select 10 pre-programmed colour settings
  - Users can tune the lamp precisely to output a light colour suited to fruit, vegetables, meat or cheese
  - Patented reflector-lens system delivers a precise beam pattern of flood and wideflood
  - Includes converter in separate polycarbonate Zumtobel Trackbox adapter
  - Front cylinder fixed to rear housing by twist-and-lock mechanism
  - Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
  - Service life: 50 000 h at 70 % luminous flux
  - Colour rendering index: Ra > 80
  - “tunableFood Colour” (TFC) colour temperature in 10 preset levels
  - Luminous flux: 1 560 lm
  - Luminaire efficiency: 49 lm/W

3-phase LED spotlight, flood (with universal adapter)

	kg	Order no.	Order no.
29–32 W LED TFC flood	2,3	60 712 727	60 712 728
29–32 W LED TFC wideflood	2,3	60 712 729	60 712 730

Accessory

Barn doors, black	60 700 082
Honeycomb mesh, black	60 700 040
Interchangeable reflector flood	60 700 321
Interchangeable reflector wideflood	60 700 322



VIVO LED Tunable Food

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
5000K	4500K	4000K	3500K						
<b>Fish 1</b> Very cool light.  For lighting fish and sea-food, freezer chests with goods wrapped in white, and all places where goods are arranged on real ice.	<b>Fish 2</b> Cool light.  For fish and refrigerated areas such as display cabinets with shredded ice, refrigerators with goods wrapped in non-transparent material, where cool impression is to be enhanced by light.	<b>Shelf</b> Intermediate light.  Universally applicable accent lighting, also suitable for lighting shelves and gondola heads.	<b>Wine</b> Accent lighting.  Can be used everywhere in the market, for illuminating posters through to wine and chocolate shelves.	<b>Fruit and vegetables</b>  Various types of fruit and vegetables are presented in a way that whets the appetite and emphasises their freshness.	<b>Cheese and bread</b> Warm light.  Shows bread and cheese in authentic colours, highlights the warmth of freshly baked bread and the mellowness of cheese.	<b>Convenience</b> Warm light, almost reddish.  To highlight pre-cooked meals in the convenience department.	<b>Meat 1</b> Perfect for meat.  Lighting that boosts sales of meat and cold meat. Ra > 80.	<b>Meat 2</b> Optimal for meat.  Compromise between sales-boosting lighting and realistic presentation of meat and cold meat.	<b>Meat 3</b> Standard for meat.  Typical lighting using HIT or SDW-T lamp plus additional meat filter.



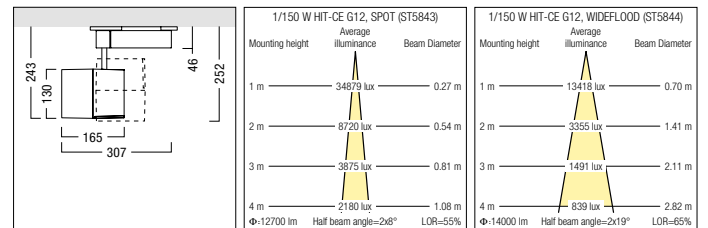
VIVO L HIT-CE G12



- [...]
  - Zumtobel Trackbox adapter of die-cast aluminium and polycarbonate
  - Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - With electronic ballast, in separate TRACKBOX adapter

	kg	Order no.	Order no.
<b>Spotlight with 3-circuit adaptor flood (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
1/70 W HIT-CE G12 flood	2,1	60 712 183	60 712 184
1/70 W HIT-CE G12 wideflood	2,1	60 712 185	60 712 186
1/100 W HIT-CE G12 flood	2,1	60 712 661	60 712 660
1/100 W HIT-CE G12 wideflood	2,1	60 712 663	60 712 662
1/150 W HIT-CE G12 flood	2,1	60 712 189	60 712 190
1/150 W HIT-CE G12 wideflood	2,1	60 712 191	60 712 192
<b>Spotlight with 3-circuit adaptor spot (with universal adapter)</b>			
		<i>white</i>	<i>silver</i>
1/70 W HIT-CE G12 spot	2,1	60 712 181	60 712 182
1/100 W HIT-CE G12 spot	2,1	60 712 659	60 712 658
1/150 W HIT-CE G12 spot	2,1	60 712 187	60 712 188

Accessory			
Barn doors, black			60 700 082
Blocking filter for meat and cold meat (M+CM)		S0	546 410
Interchangeable reflector flood, gold (HIT 150 W)			60 700 204
Interchangeable reflector flood, gold (HIT 70/100 W)			60 700 078
Interchangeable reflector flood, silver (HIT 150 W)			60 700 087
Interchangeable reflector flood, silver (HIT 70/100 W)			60 700 075
Interchangeable reflector spot, gold (HIT 70/100 W)			60 700 077
Interchangeable reflector spot, silver (HIT 150 W)			60 700 086
Interchangeable reflector spot, silver (HIT 70/100 W)			60 700 074
Interchangeable reflector very wideflood, gold (HIT 150 W)			60 700 203
Interchangeable reflector very wideflood, gold (HIT 70/100 W)			60 700 201
Interchangeable reflector very wideflood, silver (HIT 150 W)			60 700 202
Interchangeable reflector very wideflood, silver (HIT 70/100 W)			60 700 200
Interchangeable reflector wideflood, gold (HIT 150 W)			60 700 205
Interchangeable reflector wideflood, gold (HIT 70/100 W)			60 700 079
Interchangeable reflector wideflood, silver (HIT 150 W)			60 700 088
Interchangeable reflector wideflood, silver (HIT 70/100 W)			60 700 076
IR/UVA blocking filter			60 700 027
Protective cover			60 700 036
UVA blocking filter			60 700 024



VIVO-P

VIVO-P M HIT-TC-CE G8.5



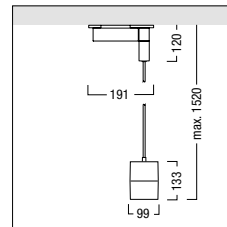
- Zumtobel 3-phase pendant adapter with Trackbox of die-cast aluminium and polycarbonate
- 2-piece luminaire housing made of die-cast aluminium in silver-look, microtextured finish
- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
- Specular reflector made of highest-grade aluminium, in anodised gold- or silver-look finish; includes glass cover
- Protective glass panel can be replaced by blocking filter
- With electronic ballast, in separate TRACKBOX adapter
- Total length of luminaire including transparent suspension cord 1520 mm max.
- Mains voltage: 220–240 V / 50/60 Hz
- Customer must cut suspension cord to length at pendant adapter
- Not suitable for point outlets

3-phase pendant adapter with trackbox (universal adapter)

	kg	Order no.
1/35 W HIT-TC-CE G8,5 flood, gold	1,4	60 510 152
1/35 W HIT-TC-CE G8,5 flood, silver	1,4	60 510 151
1/35 W HIT-TC-CE G8,5 wideflood, gold	1,4	60 510 154
1/35 W HIT-TC-CE G8,5 wideflood, silver	1,4	60 510 153
1/70 W HIT-TC-CE G8,5 flood, gold	1,4	60 510 156
1/70 W HIT-TC-CE G8,5 flood, silver	1,4	60 510 155
1/70 W HIT-TC-CE G8,5 wideflood, gold	1,4	60 510 158
1/70 W HIT-TC-CE G8,5 wideflood, silver	1,4	60 510 157

Accessory

Blocking filter for meat and cold meat (M+CM)	60 700 182
Interchangeable reflector flood, gold	60 700 180
Interchangeable reflector flood, silver	60 700 072
Interchangeable reflector spot, gold	60 700 179
Interchangeable reflector spot, silver	60 700 071
Interchangeable reflector wideflood, gold	60 700 181
Interchangeable reflector wideflood, silver	60 700 073
IR/UVA blocking filter	60 700 084
Protective cover	60 700 085
UVA blocking filter	60 700 083



Mounting height	Average illuminance	Beam Diameter
1 m	11614 lux	0.46 m
2 m	2903 lux	0.93 m
3 m	1290 lux	1.39 m
4 m	726 lux	1.86 m

Φ=6600 lm Half beam angle=2x13° LOR=69%

Mounting height	Average illuminance	Beam Diameter
1 m	5684 lux	0.74 m
2 m	1421 lux	1.48 m
3 m	632 lux	2.22 m
4 m	355 lux	2.96 m

Φ=6600 lm Half beam angle=2x20° LOR=66%

VIVO-P M HIT-TC-CE G8.5



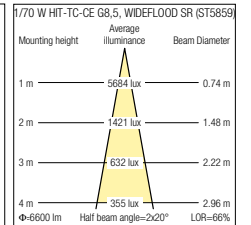
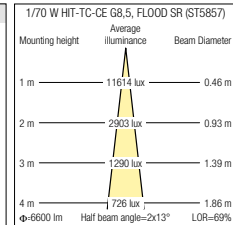
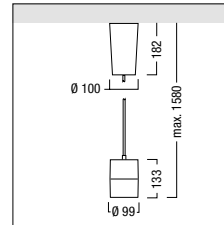
- Includes electronic ballast housed in ceiling rose
- Overall length of luminaire including transparent pendant cord: 1580 mm max.
- Mains voltage: 220–240 V / 50/60 Hz
- Connected via 3-pole terminal strip with plug-in connection
- 2-piece luminaire housing made of die-cast aluminium in silver-look, microtextured finish
- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
- Specular reflector made of highest-grade aluminium, in anodised gold- or silver-look finish; includes glass cover
- Polycarbonate ceiling rose; surface finish: microtextured silver-look paint
- Protective glass panel can be replaced by blocking filter
- Customer can shorten the pendant cord

Pendant luminaire

	kg	Order no.
1/35 W HIT-TC-CE G8,5 flood, gold	1,4	60 510 088
1/35 W HIT-TC-CE G8,5 flood, silver	1,4	60 510 087
1/35 W HIT-TC-CE G8,5 wideflood, gold	1,4	60 510 090
1/35 W HIT-TC-CE G8,5 wideflood, silver	1,4	60 510 089
1/70 W HIT-TC-CE G8,5 flood, gold	1,4	60 510 092
1/70 W HIT-TC-CE G8,5 flood, silver	1,4	60 510 091
1/70 W HIT-TC-CE G8,5 wideflood, gold	1,4	60 510 094
1/70 W HIT-TC-CE G8,5 wideflood, silver	1,4	60 510 093

Accessory

Blocking filter for meat and cold meat (M+CM)	60 700 182
Interchangeable reflector flood, gold	60 700 180
Interchangeable reflector flood, silver	60 700 072
Interchangeable reflector spot, gold	60 700 179
Interchangeable reflector spot, silver	60 700 071
Interchangeable reflector wideflood, gold	60 700 181
Interchangeable reflector wideflood, silver	60 700 073
IR/UVA blocking filter	60 700 084
Protective cover	60 700 085
UVA blocking filter	60 700 083



## VIVO-P

### VIVO-P L LED (Food)



- Innovative LED suspended luminaire, with colour temperature specifically matched to requirements of meat and bakery products
- Zumtobel 3-phase pendant adapter with Trackbox of die-cast aluminium and polycarbonate
- With wideflood distribution characteristic
- 2-piece luminaire housing made of die-cast aluminium in white or silver microtextured-paint finish
- Passive cooling achieved by innovative thermal design
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Reflector and accessories can be changed easily without tools
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Includes converter in separate Zumtobel Trackbox adapter
- Colour temperature: "LED-BKY" version matched to baked products
- Colour temperature: "LED-FW" version matched to meat products
- Service life: 50 000 h at 70 % luminous flux
- Luminaire luminous flux: 2 000–2 300 lm
- Luminaire efficiency: 56–64 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- UVA-free and IR-free light
- Overall length of luminaire including transparent pendant cord: 2 500 mm max.
- Customer must cut suspension cord to length at pendant adapter
- Not suitable for point outlets

#### 3-phase pendant adapter with trackbox (universal adapter)

	white	silver
36 W LED-BKY wideflood, bakery	60 510 177	60 510 178
36 W LED-FW wideflood, fresh meat	60 510 181	60 510 182

#### Accessory

Interchangeable reflector flood	60 700 277
Interchangeable reflector spot	60 700 276
Interchangeable reflector wideflood	60 700 280



Order no.

Order no.

|...| Shared properties VIVO-S

- Track mechanism allows continuous adjustment of spotlight unit at any tilt angle from flush to 90°
- Spotlight head rotates through 360°, pivots through 90°
- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
- Installation: by means of concealed screw-fixing, ceiling thickness 1–25 mm

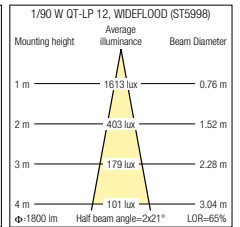
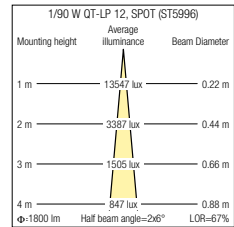
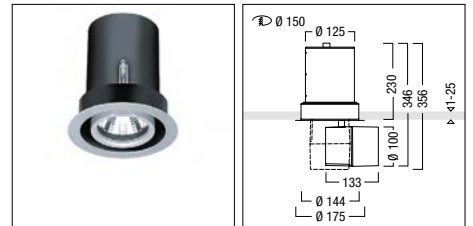
**VIVO-S D150 QT 12 (round)**



- |...|
- 2-piece housing made of die-cast aluminium in white microtextured paint finish
- Specular reflector made of anodised highest-grade aluminium, silver colour
- Recessed housing made of extruded/die-cast aluminium, with circular mounting surround, white microtextured paint finish
- Ceiling cut-out: Ø 150 mm

	RD/RØ	kg	Order no.
<b>Recessed spotlight, flood, swivelling</b>			
1/90 W QT-LP 12 GY6,35 flood	230/150	2,1	60 813 580
1/90 W QT-LP 12 GY6,35 wideflood	230/150	2,1	60 813 582
<b>Recessed spotlight spot, swivelling</b>			
1/90 W QT-LP 12 GY6,35 spot	230/150	2,1	60 813 578
<b>Accessory</b>			
Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309
Interchangeable reflector flood, silver			60 700 072
Interchangeable reflector spot, silver			60 700 071
Interchangeable reflector superspot, silver			60 700 187
Interchangeable reflector very wideflood, silver			60 700 212
Interchangeable reflector wideflood, silver			60 700 073
IR/UVA blocking filter			60 700 084
Protective cover			60 700 085
UVA blocking filter			60 700 083

Please order transformer separately.  
Please order separately the special tool required for installation (60 700 309)  
TORX T20 ball-head tool, size 1/4" x 70.



## VIVO-S

### VIVO-S D150 HIT-TC-CE G8.5 (round)

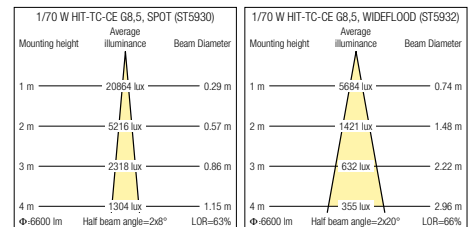
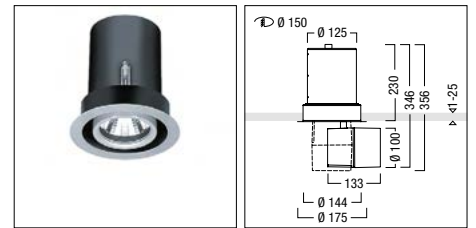


- [...]
  - Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - Recessed housing made of extruded aluminium section/die-cast aluminium, with circular mounting frame, finish: white or silver micro-structure paint
  - Connection: ST 18/3 Wieland plug
  - Ceiling cut-out: Ø 150 mm
  - HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp

	RD/RØ	kg	Order no.	Order no.
<b>Recessed spotlight, flood, swivelling</b>			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 flood	230/150	2,1	60 813 574	60 813 575
1/70 W HIT-TC-CE G8,5 wideflood	230/150	2,1	60 813 576	60 813 577
<b>Recessed spotlight spot, swivelling</b>			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 spot	230/150	2,1	60 813 572	60 813 573
<b>Accessory</b>				
Anti-glare cylinder, black (for screening the lamp)			60 700 098	
Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309	
Blocking filter for meat and cold meat (M+CM)			60 700 182	
Interchangeable reflector flood, gold			60 700 180	
Interchangeable reflector flood, silver			60 700 072	
Interchangeable reflector spot, gold			60 700 179	
Interchangeable reflector spot, silver			60 700 071	
Interchangeable reflector superspot, silver			60 700 187	
Interchangeable reflector very wideflood, gold			60 700 213	
Interchangeable reflector very wideflood, silver			60 700 212	
Interchangeable reflector wideflood, gold			60 700 181	
Interchangeable reflector wideflood, silver			60 700 073	
IR/UVA blocking filter			60 700 084	
Protective cover			60 700 085	
UVA blocking filter			60 700 083	

Please order electronic ballast separately.

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



VIVO-S Q150 QT 12 (square)



- [...]
  - 2-piece housing made of die-cast aluminium in white microtextured paint finish
  - Specular reflector made of anodised highest-grade aluminium, silver colour
  - Recessed housing made of extruded/die-cast aluminium, with square mounting surround, white microtextured paint finish
  - Ceiling cut-out: 150 x 150 mm

Recessed spotlight, flood, swivelling

1/90 W QT-LP 12 GY6,35 flood	150/150/230	2,1	60 813 592
1/90 W QT-LP 12 GY6,35 wideflood	150/150/230	2,1	60 813 594

Recessed spotlight spot, swivelling

1/90 W QT-LP 12 GY6,35 spot	150/150/230	2,1	60 813 590
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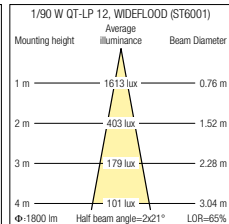
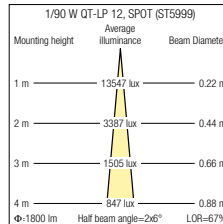
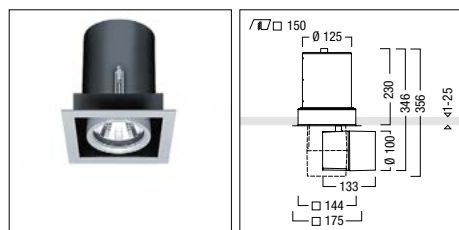
Accessory

Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309
Interchangeable reflector flood, silver			60 700 072
Interchangeable reflector spot, silver			60 700 071
Interchangeable reflector superspot, silver			60 700 187
Interchangeable reflector very wideflood, silver			60 700 212
Interchangeable reflector wideflood, silver			60 700 073
IR/UVA blocking filter			60 700 084
Protective cover			60 700 085
UVA blocking filter			60 700 083

Please order transformer separately.

Please order separately the special tool required for installation (60 700 309)

TORX T20 ball-head tool, size 1/4" x 70.



# VIVO-S

## VIVO-S Q150 HIT-TC-CE G8.5 (square)



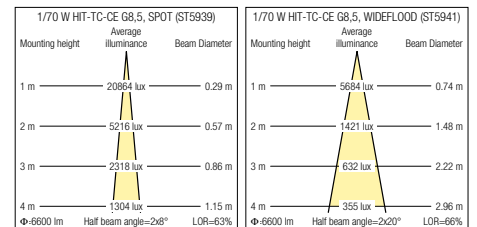
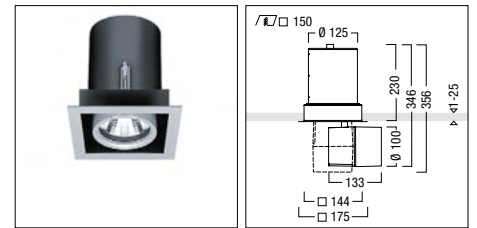
- [...]
  - Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - Recessed housing made of extruded aluminium section/die-cast aluminium, with square mounting frame, finish: white or silver micro-structure paint
  - Connection: ST 18/3 Wieland plug
  - Ceiling cut-out: 150 x 150 mm
  - HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp

	EL/EB/ET	kg	Order no.	Order no.
<b>Recessed spotlight, flood, swivelling</b>				
			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 flood	150/150/230	2,2	60 813 586	60 813 587
1/70 W HIT-TC-CE G8,5 wideflood	150/150/230	2,2	60 813 588	60 813 589
<b>Recessed spotlight spot, swivelling</b>				
			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 spot	150/150/230	2,2	60 813 584	60 813 585
<b>Accessory</b>				
Anti-glare cylinder, black (for screening the lamp)				60 700 098
Assembly tool TORX ball head, drive size 1/4" x 70 T20				60 700 309
Blocking filter for meat and cold meat (M+CM)				60 700 182
Interchangeable reflector flood, gold				60 700 180
Interchangeable reflector flood, silver				60 700 072
Interchangeable reflector spot, gold				60 700 179
Interchangeable reflector spot, silver				60 700 071
Interchangeable reflector superspot, silver				60 700 187
Interchangeable reflector very wideflood, gold				60 700 213
Interchangeable reflector very wideflood, silver				60 700 212
Interchangeable reflector wideflood, gold				60 700 181
Interchangeable reflector wideflood, silver				60 700 073
IR/UVA blocking filter				60 700 084
Protective cover				60 700 085
UVA blocking filter				60 700 083

Please order electronic ballast separately.

Please order separately the special tool required for installation (60 700 309)

TORX T20 ball-head tool, size 1/4" x 70.





[...] Shared properties VIVO-SL LED

- Passive cooling achieved by innovative thermal design
- Spotlight unit can rotate through 360° and tilt through 60°;
- Die-cast aluminium spotlight housing
- Colour: white microtextured paint finish
- Black polycarbonate front ring provides excellent glare control
- Front ring serves for accommodation of accessories
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- Mains voltage: 220–240 V / 50/60 Hz
- Installation: by means of concealed screw-fixing, ceiling thickness 1–25 mm

**VIVO-SL D150 LED (Essential stableWhite, circular)**

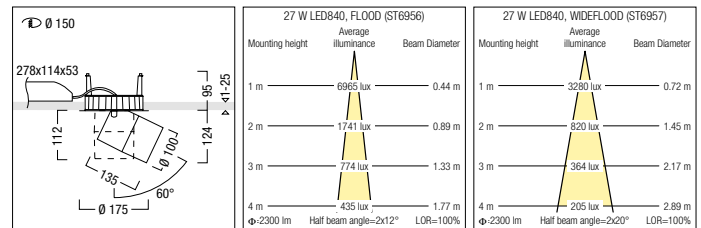


- [...]
- “Essential stableWhite” recessed LED spot with stabilized colour temperature (warm white / neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Die-cast aluminium recessed housing with circular mounting surround in white microtextured paint finish
- stableWhite colour temperature: 3 000 K (LED830: warm white) or 4 000 K (LED840: neutral white)
- Colour rendering index: Ra > 80
- Luminaire luminous flux: 2 200–2 400 lm
- Luminaire efficiency: 81–89 lm/W
- Includes ballast as separate unit
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Ceiling cut-out: Ø 150 mm

	RD/RØ	kg	Order no.
<b>Recessed spotlight, flood, swivelling</b>			
27 W LED830 flood	105/150	2,1	60 814 358
27 W LED830 wideflood	105/150	2,1	60 814 359
27 W LED840 flood	105/150	2,1	60 814 360
27 W LED840 wideflood	105/150	2,1	60 814 361

Accessory		
Interchangeable reflector spot		60 700 274
Interchangeable reflector flood		60 700 275
Interchangeable reflector wideflood		60 700 278
Interchangeable reflector with high-contrast aperture		60 700 345
Oval outline lens 50°		60 700 344
Soft-outline lens		60 700 343
Black Anti-glare ring		60 700 342
Assembly tool TORX ball head, drive size 1/4" x 70 T20		60 700 309

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



**VIVO-SL D150 LED (Essential+ stableWhite, circular)**



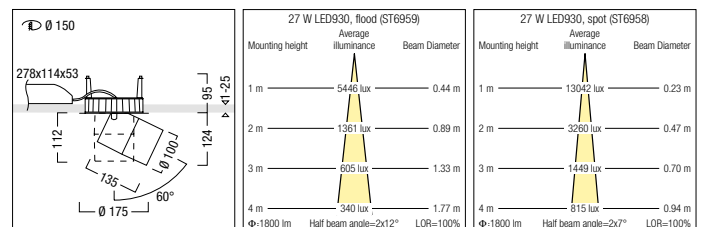
- [...]
- “Essential+ stableWhite” recessed LED spot with stabilized colour temperature (warm white / neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Die-cast aluminium recessed housing with circular mounting surround in white microtextured paint finish
- stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white)
- Colour rendering index: Ra 90
- Luminaire luminous flux: 1 800–2 000 lm
- Luminaire efficiency: 66–74 lm/W
- 5 to 100 % illuminance adjustment possible using dimmable Dali only
- With controllable ballast (Dali), separate unit
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Ceiling cut-out: Ø 150 mm

	RD/RØ	kg	Order no.
<b>Recessed spotlight, flood, swivelling</b>			
27 W LED930 flood, dimmable Dali only	105/150	2,1	60 814 362
27 W LED930 wideflood, dimmable Dali only	105/150	2,1	60 814 363
27 W LED940 flood, dimmable Dali only	105/150	2,1	60 814 364
27 W LED940 wideflood, dimmable Dali only	105/150	2,1	60 814 365

Recessed spotlight spot, swivelling		
27 W LED930 spot, dimmable Dali only	105/150	60 814 374
27 W LED940 spot, dimmable Dali only	105/150	60 814 375

Accessory		
Interchangeable reflector spot		60 700 274
Interchangeable reflector flood		60 700 275
Interchangeable reflector wideflood		60 700 278
Interchangeable reflector with high-contrast aperture		60 700 345
Oval outline lens 50°		60 700 344
Soft-outline lens		60 700 343
Black Anti-glare ring		60 700 342
Assembly tool TORX ball head, drive size 1/4" x 70 T20		60 700 309

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



## VIVO-SL

### VIVO-SL D150 LED TGR (True Gamut Rendering)



- [...]
- LED spotlight with Ra >90 colour rendering in all colour spectra, optimised for efficient accent lighting in shops and sales spaces
- True Gamut Rendering (TGR) enables lively colour effects particularly with white and coloured apparel
- Die-cast aluminium recessed housing with circular mounting surround in white microtextured paint finish
- Colour temperature: 3000 K (LED930: warm white)
- Colour rendering index: Ra > 90
- Luminaire luminous flux: 2400 lm
- Luminaire efficiency: 67 lm/W
- Dimmable Dali version: illuminance level has 5–100 % dimming adjustment
- Includes ballast as separate unit
- 3-pole connection terminal with plug connection, 5-pole (dimnable Dali), through-wiring possible
- Ceiling cut-out: Ø 150 mm

#### Recessed spotlight, flood, swivelling

	RD/RØ	kg	Order no.
36 W LED930 TGR flood	105/150	2,1	60 815 545
36 W LED930 TGR flood, dimmable Dali only	105/150	2,1	60 815 548
36 W LED930 TGR wideflood	105/150	2,1	60 815 546
36 W LED930 TGR wideflood, dimmable Dali only	105/150	2,1	60 815 549

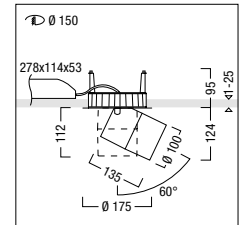
#### Recessed spotlight spot, swivelling

36 W LED930 TGR spot	105/150	2,1	60 815 544
36 W LED930 TGR spot, dimmable Dali only	105/150	2,1	60 815 547

#### Accessory

Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309
Black Anti-glare ring			60 700 342
Interchangeable reflector flood			60 700 275
Interchangeable reflector spot			60 700 274
Interchangeable reflector wideflood			60 700 278
Interchangeable reflector with high-contrast aperture			60 700 345
Oval outline lens 50°			60 700 344
Soft-outline lens			60 700 343

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



### VIVO-SL Q150 (Essential stableWhite, square)



- [...]
- "Essential stableWhite" recessed LED spot with stabilized colour temperature (warm white / neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Die-cast aluminium recessed housing with square mounting surround in white microtextured paint finish
- stableWhite colour temperature: 3000 K (LED830: warm white) or 4000 K (LED840: neutral white)
- Colour rendering index: Ra > 80
- Luminaire luminous flux: 2200–2400 lm
- Luminaire efficiency: 81–89 lm/W
- Includes ballast as separate unit
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Ceiling cut-out: 150 x 150 mm

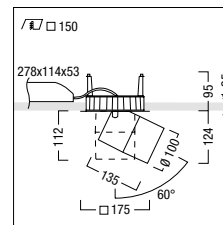
#### Recessed spotlight, flood, swivelling

	EL/EB/ET	kg	Order no.
27 W LED830 flood	150/150/95	2,1	60 814 366
27 W LED830 wideflood	150/150/95	2,1	60 814 367
27 W LED840 flood	150/150/95	2,1	60 814 368
27 W LED840 wideflood	150/150/95	2,1	60 814 369

#### Accessory

Interchangeable reflector spot			60 700 274
Interchangeable reflector flood			60 700 275
Interchangeable reflector wideflood			60 700 278
Interchangeable reflector with high-contrast aperture			60 700 345
Oval outline lens 50°			60 700 344
Soft-outline lens			60 700 343
Black Anti-glare ring			60 700 342
Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



27 W LED830, FLOOD (ST6965)		
Mounting height	Average illuminance	Beam Diameter
1 m	6464 lux	0.44 m
2 m	1616 lux	0.88 m
3 m	718 lux	1.32 m
4 m	404 lux	1.76 m
Φ=2100 lm Half beam angle=2x12° LOR=100%		

27 W LED830, WIDEFLOOD (ST6966)		
Mounting height	Average illuminance	Beam Diameter
1 m	3061 lux	0.71 m
2 m	765 lux	1.43 m
3 m	340 lux	2.14 m
4 m	191 lux	2.85 m
Φ=2100 lm Half beam angle=2x20° LOR=100%		

VIVO-SL Q150 (Essential+ stableWhite, square)

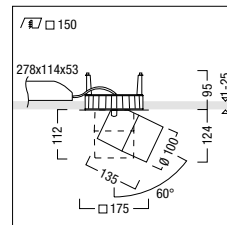


- [...]
- “Essential+ stableWhite” recessed LED spot with stabilized colour temperature (warm white / neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Die-cast aluminium recessed housing with square mounting surround in white microtextured paint finish
- stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white)
- Colour rendering index: Ra 90
- Luminaire luminous flux: 1 800–2 000 lm
- Luminaire efficiency: 66–74 lm/W
- 5 to 100 % illuminance adjustment possible using dimmable Dali only
- With controllable ballast (Dali), separate unit
- 5-pole plug-in connecting terminal; cable loop-in/loop-out facility
- Ceiling cut-out: 150 x 150 mm

	EL/EB/ET	kg	Order no.
<b>Recessed spotlight, flood, swivelling</b>			
<i>dimmable Dali only</i>			
27 W LED930 flood	150/150/95	2,1	60 814 370
27 W LED930 wideflood	150/150/95	2,1	60 814 371
27 W LED940 flood	150/150/95	2,1	60 814 372
27 W LED940 wideflood	150/150/95	2,1	60 814 373
<b>Recessed spotlight spot, swivelling</b>			
<i>dimmable Dali only</i>			
27 W LED930 spot	150/150/95	2,1	60 814 376
27 W LED940 spot	150/150/95	2,1	60 814 377

Accessory	
Interchangeable reflector spot	60 700 274
Interchangeable reflector flood	60 700 275
Interchangeable reflector wideflood	60 700 278
Interchangeable reflector with high-contrast aperture	60 700 345
Oval outline lens 50°	60 700 344
Soft-outline lens	60 700 343
Black Anti-glare ring	60 700 342
Assembly tool TORX ball head, drive size 1/4" x 70 T20	60 700 309

Please order separately the special tool required for installation (60 700 309) TORX T20 ball-head tool, size 1/4" x 70.



27 W LED940, FLOOD (ST6974)		
Mounting height	Average illuminance	Beam Diameter
1 m	5952 lux	0.45 m
2 m	1488 lux	0.89 m
3 m	661 lux	1.34 m
4 m	372 lux	1.79 m
Φ-2000 lm Half beam angle=2x13° LOR=100%		

27 W LED940, WIDEFLOOD (ST6975)		
Mounting height	Average illuminance	Beam Diameter
1 m	2863 lux	0.72 m
2 m	716 lux	1.45 m
3 m	318 lux	2.17 m
4 m	179 lux	2.89 m
Φ-2000 lm Half beam angle=2x20° LOR=100%		

## VIVO-SL

|...| Shared properties VIVO-SL

- Front cylinder fixed to rear housing via twist and lock bayonet mechanism (extremely easy relamping and replacement of reflector)
- Spotlight head has 360° rotation, and can swivel down through 50°
- Installation: by means of concealed screw-fixing, ceiling thickness 1–25 mm

### VIVO-SL D150 QT 12 (round)



- |...|
- Recessed housing made of extruded/die-cast aluminium, with circular mounting surround, white microtextured paint finish
- 2-piece housing made of die-cast aluminium in white microtextured paint finish
- Specular reflector made of anodised highest-grade aluminium, silver colour
- Electrical connection: 2-pole terminal
- Ceiling cut-out: Ø 150 mm

#### Recessed spotlight, flood, swivelling

	RD/RØ	kg	Order no.
1/100 W QT-LP 12 GY6,35 flood	100/150	1,4	60 813 604
1/100 W QT-LP 12 GY6,35 wideflood	100/150	1,4	60 813 606

#### Recessed spotlight spot, swivelling

1/100 W QT-LP 12 GY6,35 spot	100/150	1,4	60 813 602
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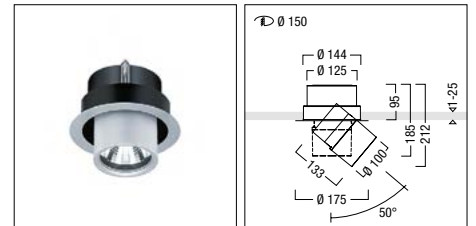
#### Accessory

Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309
Interchangeable reflector flood, silver			60 700 072
Interchangeable reflector spot, silver			60 700 071
Interchangeable reflector superspot, silver			60 700 187
Interchangeable reflector very wideflood, silver			60 700 212
Interchangeable reflector wideflood, silver			60 700 073
IR/UVA blocking filter			60 700 084
Protective cover			60 700 085
UVA blocking filter			60 700 083

Please order transformer separately.

Please order separately the special tool required for installation (60 700 309)

TORX T20 ball-head tool, size 1/4" x 70.



1/100 W QT-LP 12, SPOT (ST5924)		
Mounting height	Average illuminance	Beam Diameter
1 m	13276 lux	0.23 m
2 m	3319 lux	0.46 m
3 m	1475 lux	0.70 m
4 m	830 lux	0.93 m
Φ-2300 lm Half beam angle=267° LOR=58%		

1/100 W QT-LP 12, WIDEFLOOD (ST5926)		
Mounting height	Average illuminance	Beam Diameter
1 m	1921 lux	0.73 m
2 m	480 lux	1.46 m
3 m	213 lux	2.19 m
4 m	120 lux	2.93 m
Φ-2300 lm Half beam angle=220° LOR=56%		

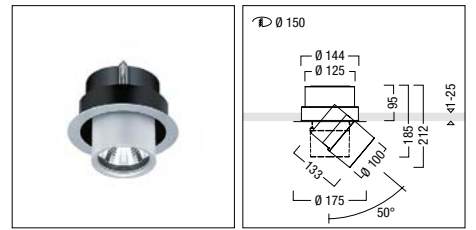
VIVO-SL D150 HIT-TC-CE G8.5 (round)



- [...]
  - Recessed housing made of extruded aluminium section/die-cast aluminium, with circular mounting frame, finish: white or silver micro-structure paint
  - Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - Connection: ST 18/3 Wieland plug
  - Ceiling cut-out: Ø 150 mm
  - HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp

	RD/RØ	kg	Order no.	Order no.
<b>Recessed spotlight, flood, swivelling</b>			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 flood	100/150	1,4	60 813 598	60 813 599
1/70 W HIT-TC-CE G8,5 wideflood	100/150	1,4	60 813 600	60 813 601
<b>Recessed spotlight spot, swivelling</b>			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 spot	100/150	1,4	60 813 596	60 813 597
<b>Accessory</b>				
Anti-glare cylinder, black (for screening the lamp)				60 700 098
Assembly tool TORX ball head, drive size 1/4" x 70 T20				60 700 309
Blocking filter for meat and cold meat (M+CM)				60 700 182
Interchangeable reflector flood, gold				60 700 180
Interchangeable reflector flood, silver				60 700 072
Interchangeable reflector spot, gold				60 700 179
Interchangeable reflector spot, silver				60 700 071
Interchangeable reflector superspot, silver				60 700 187
Interchangeable reflector very wideflood, gold				60 700 213
Interchangeable reflector very wideflood, silver				60 700 212
Interchangeable reflector wideflood, gold				60 700 181
Interchangeable reflector wideflood, silver				60 700 073
IR/UVA blocking filter				60 700 084
Protective cover				60 700 085
UVA blocking filter				60 700 083

Please order electronic ballast separately.  
 Please order separately the special tool required for installation (60 700 309)  
 TORX T20 ball-head tool, size 1/4" x 70.



1/70 W HIT-TC-CE G8,5, SPOT (ST5930)			1/70 W HIT-TC-CE G8,5, WIDEFLOOD (ST5932)		
Mounting height	Average illuminance	Beam Diameter	Mounting height	Average illuminance	Beam Diameter
1 m	20864 lux	0,29 m	1 m	5684 lux	0,74 m
2 m	5216 lux	0,57 m	2 m	1421 lux	1,48 m
3 m	2318 lux	0,86 m	3 m	632 lux	2,22 m
4 m	1304 lux	1,15 m	4 m	355 lux	2,96 m
Φ-6600 lm Half beam angle=2x8° LOR=63%			Φ-6600 lm Half beam angle=2x20° LOR=66%		

# VIVO-SL

## VIVO-SL Q150 QT 12 (square)



- [...]
  - Recessed housing made of extruded/die-cast aluminium, with square mounting surround, white microtextured paint finish
  - 2-piece housing made of die-cast aluminium in white microtextured paint finish
  - Specular reflector made of anodised highest-grade aluminium, silver colour
  - Electrical connection: 2-pole terminal
  - Ceiling cut-out: 150 x 150 mm

### Recessed spotlight, flood, swivelling

1/100 W QT-LP 12 GY6,35 flood	150/150/100	1,5	60 813 616
1/100 W QT-LP 12 GY6,35 wideflood	150/150/100	1,5	60 813 618

### Recessed spotlight spot, swivelling

1/100 W QT-LP 12 GY6,35 spot	150/150/100	1,5	60 813 614
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### Accessory

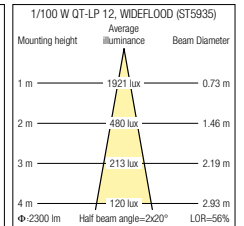
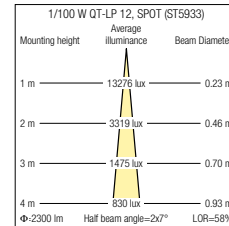
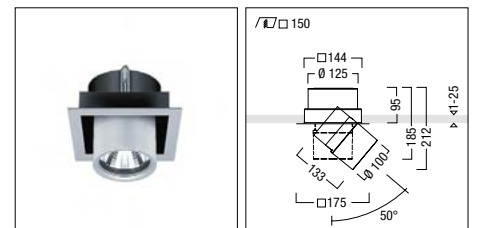
Assembly tool TORX ball head, drive size 1/4" x 70 T20			60 700 309
Interchangeable reflector flood, silver			60 700 072
Interchangeable reflector spot, silver			60 700 071
Interchangeable reflector superspot, silver			60 700 187
Interchangeable reflector very wideflood, silver			60 700 212
Interchangeable reflector wideflood, silver			60 700 073
IR/UVA blocking filter			60 700 084
Protective cover			60 700 085
UVA blocking filter			60 700 083

Please order transformer separately.

Please order separately the special tool required for installation (60 700 309)

TORX T20 ball-head tool, size 1/4" x 70.

EL/EB/ET kg Order no.



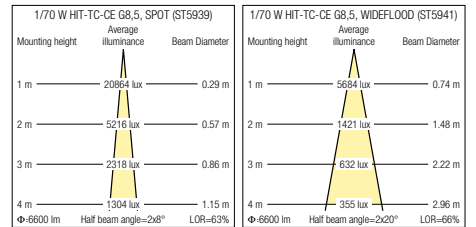
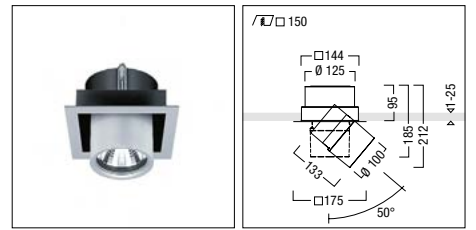
VIVO-SL Q150 HIT-TC-CE G8.5 (square)



- [...]
  - Recessed housing made of extruded aluminium section/die-cast aluminium, with square mounting frame, finish: white or silver micro-structure paint
  - Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
  - Specular reflector made of anodised highest-grade aluminium, silver colour, incl. protective glass panel
  - Protective glass panel can be replaced by blocking filter
  - Connection: ST 18/3 Wieland plug
  - Ceiling cut-out: 150 x 150 mm
  - HIT-TC-CE models can also be fitted with 1/20 W or 1/35 W HIT-TC-CE lamp

	EL/EB/ET	kg	Order no.	Order no.
<b>Recessed spotlight, flood, swivelling</b>				
			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 flood	150/150/100	1,5	60 813 610	60 813 611
1/70 W HIT-TC-CE G8,5 wideflood	150/150/100	1,5	60 813 612	60 813 613
<b>Recessed spotlight spot, swivelling</b>				
			<i>white</i>	<i>silver</i>
1/70 W HIT-TC-CE G8,5 spot	150/150/100	1,5	60 813 608	60 813 609
<b>Accessory</b>				
Anti-glare cylinder, black (for screening the lamp)				60 700 098
Assembly tool TORX ball head, drive size 1/4" x 70 T20				60 700 309
Blocking filter for meat and cold meat (M+CM)				60 700 182
Interchangeable reflector flood, gold				60 700 180
Interchangeable reflector flood, silver				60 700 072
Interchangeable reflector spot, gold				60 700 179
Interchangeable reflector spot, silver				60 700 071
Interchangeable reflector superspot, silver				60 700 187
Interchangeable reflector very wideflood, gold				60 700 213
Interchangeable reflector very wideflood, silver				60 700 212
Interchangeable reflector wideflood, gold				60 700 181
Interchangeable reflector wideflood, silver				60 700 073
IR/UVA blocking filter				60 700 084
Protective cover				60 700 085
UVA blocking filter				60 700 083

Please order electronic ballast separately.  
 Please order separately the special tool required for installation (60 700 309)  
 TORX T20 ball-head tool, size 1/4" x 70.





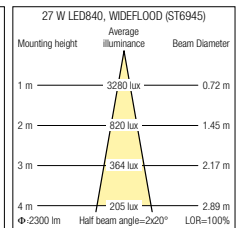
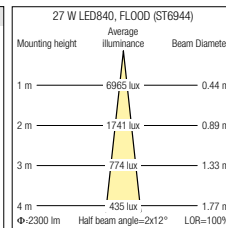
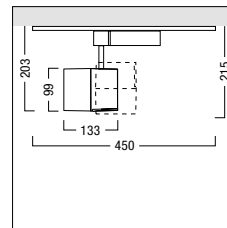


VIVO L/M TEC LED (Essential/Essential+ stableWhite)



- “Essential stableWhite” LED spotlight with stabilised colour temperature (warm white/neutral white)
- Optimized for efficient and high-performance accent lighting in shops and salesrooms
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate box
- Spotlight head rotates through 360°, pivots through 90°
- Die-cast aluminium spotlight housing
- Colour: silver, black or white microtextured paint finish
- Black polycarbonate front ring provides excellent glare control
- Front ring serves for accommodation of accessories
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- Version VIVO M Essential: luminaire luminous flux: 2 200–2 400 lm (27 W); luminaire efficiency: 81–89 lm/W
- Version VIVO L Essential: luminaire flux: 3 000–3 200 lm (36 W); luminaire efficiency: 83–89 lm/W (36 W)
- VIVO L Essential version: luminaire luminous flux: 3 800–4 600 lm (60 W); luminaire efficiency: 63–77 lm/W (60 W)
- Version VIVO L Essential+: luminaire flux: 2 600–2 700 lm (36 W); luminaire efficiency: 72–75 lm/W (36 W)
- Version VIVO M Essential: stableWhite colour temperature: 3 000 K (LED830: warm white) or 4 000 K (LED840: neutral white), colour rendering: Ra 80
- Version VIVO L Essential: stableWhite colour temperature: 3 000 K (LED830: warm white) or 4 000 K (LED840: neutral white), colour rendering: Ra 80
- Version VIVO L Essential+: stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white), colour rendering: Ra 90
- Mains voltage: 220–240 V / 50/60 Hz
- CLIX technology used to fix spotlight to trunking
- Spotlight cannot be fitted over input power feed, central power feed or output power feed
- Trunking module: length 450 mm

	kg	Order no.	Order no.
<b>LED spotlight VIVO M flood, with CLIX technology (TECTON)</b>			
		<i>white</i>	<i>silver</i>
27 W LED830 flood <i>eco+</i>	1,8	60 712 805	60 712 806
27 W LED830 wideflood <i>eco+</i>	1,8	60 712 807	60 712 808
27 W LED840 flood <i>eco+</i>	1,8	60 712 809	60 712 810
27 W LED840 wideflood <i>eco+</i>	1,8	60 712 811	60 712 812
<b>LED spotlight VIVO L flood, with CLIX technology (TECTON)</b>			
		<i>white</i>	<i>silver</i>
36 W LED830 flood	2,1	60 713 038	60 713 039
36 W LED830 wideflood	2,1	60 713 040	60 713 041
36 W LED840 flood	2,1	60 713 044	60 713 045
36 W LED840 wideflood	2,1	60 713 046	60 713 047
36 W LED930 flood	2,1	60 713 050	60 713 051
36 W LED930 wideflood	2,1	60 713 052	60 713 053
36 W LED940 flood	2,1	60 713 056	60 713 057
36 W LED940 wideflood	2,1	60 713 058	60 713 059
60 W LED830 flood	2,1	60 713 122	60 713 123
60 W LED830 wideflood	2,1	60 713 124	60 713 125
60 W LED840 flood	2,1	60 713 128	60 713 129
60 W LED840 wideflood	2,1	60 713 130	60 713 131
<b>LED spotlight VIVO L spot, with CLIX technology (TECTON)</b>			
		<i>white</i>	<i>silver</i>
36 W LED830 spot	2,1	60 713 036	60 713 037
36 W LED840 spot	2,1	60 713 042	60 713 043
36 W LED930 spot	2,1	60 713 048	60 713 049
36 W LED940 spot	2,1	60 713 054	60 713 055
60 W LED830 spot	2,1	60 713 120	60 713 121
60 W LED840 spot	2,1	60 713 126	60 713 127



VIVO TEC

VIVO L TEC LED (Advanced stableWhite) white/silver



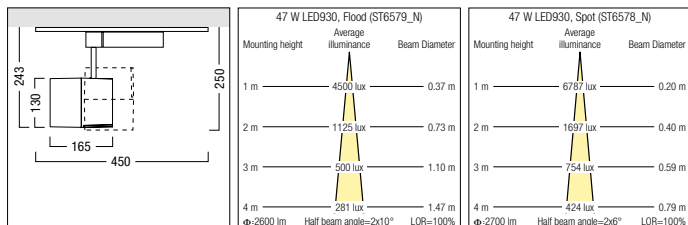
- “Advanced stableWhite” LED spotlight with stabilised colour temperature (warm white/neutral white)
- Optimised for efficient and uniform accent lighting in shops and showrooms
- Patented reflector-lens system delivers precision beam pattern from spot to wideflood
- Passive cooling achieved by innovative thermal design
- Includes converter in separate polycarbonate box
- Spotlight head rotates through 360°, pivots through 90°
- Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- stableWhite colour temperature: 3 000 K (LED930: warm white) or 4 000 K (LED940: neutral white)
- Colour rendering index: Ra 90
- Luminaire luminous flux: 2 600–2 700 lm
- Luminaire efficiency: 55–57 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- CLIX technology used to fix spotlight to trunking
- Spotlight cannot be fitted over input power feed, central power feed or output power feed
- Trunking module: length 450 mm

LED-spotlight, flood, with CLIX technology (TECTON)

	kg	Order no.	Order no.
47 W LED930 flood	2,1	60 712 547	60 712 548
47 W LED930 wideflood	2,1	60 712 549	60 712 557
47 W LED940 flood	2,1	60 712 560	60 712 561
47 W LED940 wideflood	2,1	60 712 562	60 712 563

LED spotlight, spot, with CLIX technology (TECTON)

	kg	Order no.	Order no.
47 W LED930 spot	2,1	60 712 545	60 712 546
47 W LED940 spot	2,1	60 712 558	60 712 559



## VIVO L TEC LED (tunableFood Colour) white/silver

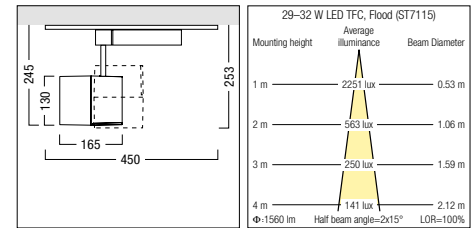
kg Order no. Order no.



- High-performance, innovative “tunableFood Colour” (TFC) LED spotlight with adjustable colour temperatures
- Optimised for efficient, uniform and customised accent lighting for food retailing
- 10 pre-programmed colour settings can be selected using a rotary switch on the converter box
- Users can tune the lamp precisely to output a light colour suited to fruit, vegetables, meat or cheese
- Patented reflector-lens system delivers a precise beam pattern of flood and wideflood
- Includes converter in separate polycarbonate box
- Spotlight head rotates through 360°, pivots through 90°
- Spotlight surround made of 2-piece diecast aluminium; optional micro-textured finishes: white or silver
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Service life: 50 000 h at 70 % luminous flux
- Colour rendering index: Ra > 80
- “tunableFood Colour” (TFC) colour temperature in 10 preset levels
- Luminous flux: 1560 lm
- Luminaire efficiency: 49 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- CLIX technology used to fix spotlight to trunking
- Spotlight cannot be fitted over input power feed, central power feed or output power feed
- Trunking module: length 450 mm

## LED-spotlight, flood, with CLIX technology (TECTON)

		white	silver
29–32 W LED TFC flood	2,5	60 712 731	60 712 732
29–32 W LED TFC wideflood	2,5	60 712 733	60 712 734



## VIVO TEC

### VIVO-P L TEC LED (Food)

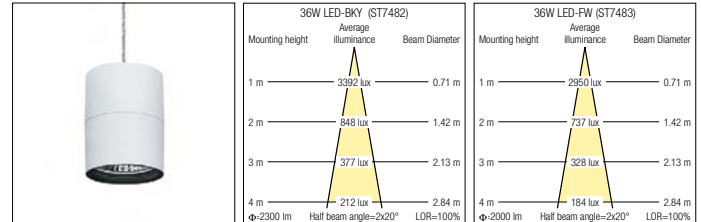


- Innovative LED suspended luminaire (VIVO L construction design), with colour temperature specifically matched to requirements of meat and bakery products
- With wideflood distribution characteristic
- 2-piece luminaire housing made of die-cast aluminium in white or silver microtextured-paint finish
- Passive cooling achieved by innovative thermal design
- Front cylinder fixed to rear housing by twist-and-lock mechanism
- Reflector and accessories can be changed easily without tools
- Specular reflector of aluminium-sputtered polycarbonate, highly specular, iridescence-free
- Includes converter in separate polycarbonate box
- Colour temperature: "LED-BKY" version matched to baked products
- Colour temperature: "LED-FW" version matched to meat products
- Service life: 50 000 h at 70 % luminous flux
- Luminaire luminous flux: 2 000–2 300 lm
- Luminaire efficiency: 56–64 lm/W
- Mains voltage: 220–240 V / 50/60 Hz
- UVA-free and IR-free light
- Overall length of luminaire including transparent pendant cord: 2500 mm max.
- CLIX technology used to fix pendant luminaire to trunking
- Customer must cut suspension cord to length at pendant adapter
- Pendant luminaire cannot be fitted over incoming feeder, central feeder or outgoing feeder
- Trunking module: length 450 mm

LED pendant luminaire with CLIX technology (TECTON)

	white	silver
36 W LED-BKY wideflood, bakery	60 510 179	60 510 180
36 W LED-FW wideflood, fresh meat	60 510 183	60 510 184

Wechselreflektoren siehe unter VIVO L/M TEC Zubehör: 60 700 276/277/280.



## VIVO L/M TEC accessories



- Accessory for VIVO TEC Version L/M

Order no.

## Accessory L/M TEC QT12 / HIT

Anti-glare cylinder, black (for screening the lamp)	60 700 098
Barn doors, black	60 700 081
Blocking filter for meat and cold meat (M+CM)	S0 546 410
Blocking filter for meat and cold meat (M+CM)	60 700 182
Interchangeable reflector flood, gold	60 700 180
Interchangeable reflector flood, gold (HIT 150 W)	60 700 204
Interchangeable reflector flood, gold (HIT 70/100 W)	60 700 078
Interchangeable reflector flood, silver	60 700 072
Interchangeable reflector flood, silver (HIT 150 W)	60 700 087
Interchangeable reflector flood, silver (HIT 70/100 W)	60 700 075
Interchangeable reflector spot, gold	60 700 179
Interchangeable reflector spot, gold (HIT 70/100 W)	60 700 077
Interchangeable reflector spot, silver	60 700 071
Interchangeable reflector spot, silver (HIT 150 W)	60 700 086
Interchangeable reflector spot, silver (HIT 70/100 W)	60 700 074
Interchangeable reflector superspot, silver	60 700 187
Interchangeable reflector very wideflood, gold	60 700 213
Interchangeable reflector very wideflood, gold (HIT 150 W)	60 700 203
Interchangeable reflector very wideflood, gold (HIT 70/100 W)	60 700 201
Interchangeable reflector very wideflood, silver	60 700 212
Interchangeable reflector very wideflood, silver (HIT 150 W)	60 700 202
Interchangeable reflector very wideflood, silver (HIT 70/100 W)	60 700 200
Interchangeable reflector wideflood, gold	60 700 181
Interchangeable reflector wideflood, gold (HIT 150 W)	60 700 205
Interchangeable reflector wideflood, gold (HIT 70/100 W)	60 700 079
Interchangeable reflector wideflood, silver	60 700 073
Interchangeable reflector wideflood, silver (HIT 150 W)	60 700 088
Interchangeable reflector wideflood, silver (HIT 70/100 W)	60 700 076
IR/UVA blocking filter	60 700 084
IR/UVA blocking filter	60 700 027
Protective cover	60 700 085
Protective cover	60 700 036
UVA blocking filter	60 700 083
UVA blocking filter	60 700 024

## Accessory L/M TEC LED

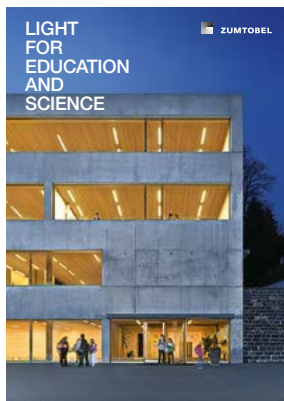
Black anti-glare ring	60 700 342
Honeycomb mesh, black	60 700 040
Interchangeable reflector flood	60 700 277
Interchangeable reflector flood	60 700 275
Interchangeable reflector spot	60 700 276
Interchangeable reflector spot	60 700 274
Interchangeable reflector wideflood	60 700 278
Interchangeable reflector wideflood	60 700 280
Interchangeable reflector with high-contrast aperture	60 700 345
oval outline lens 50°	60 700 344
Replacement reflector flood (60 W)	60 700 352
Replacement reflector spot (60 W)	60 700 351
Replacement reflector wideflood (60 W)	60 700 353
soft-outline lens	60 700 343

## Accessory L TEC LED

Barn doors, black	60 700 082
Interchangeable reflector flood	60 700 321
Interchangeable reflector flood (47 W)	60 700 323
Interchangeable reflector spot (47 W)	60 700 324
Interchangeable reflector wideflood	60 700 322
Interchangeable reflector wideflood (47 W)	60 700 325



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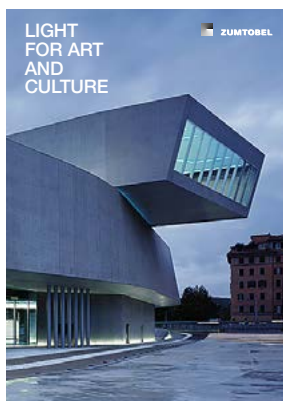
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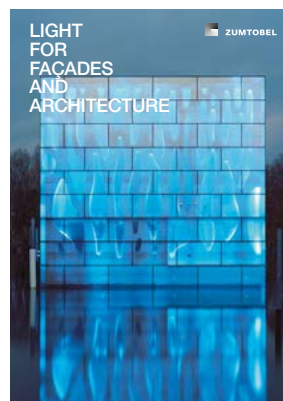
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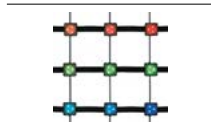
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