

Lighting Tools 10



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Welcome at Ansoorg

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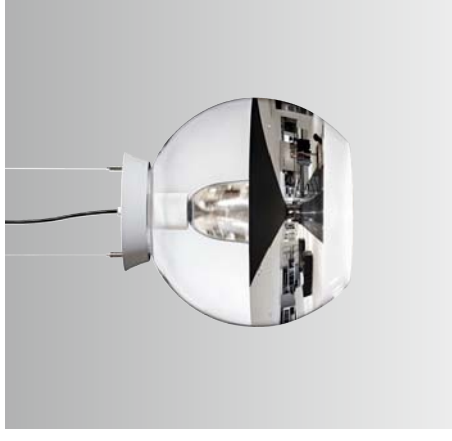
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Welcome at Ansong

Ansong develops and produces innovative technical luminaires for the retail and architectural areas.

Cooperation with planners, designers and architects is the basis of the development of technically matured and aesthetically convincing luminaires and lighting concepts.

Besides the technical competence, Ansong shifts the setting of lighting scenes based on customer's special requirements to the focus of attention, since it is in particular the special wishes and needs which are indispensable for the effective setting of lighting scenes as part of a corporate identity. For light creates unmistakable, easily remembered moods and atmospheres; it must blend into the ambiance of the room in order to preserve its effect. Therefore property-related luminaire developments rank just as much among the company's strong points as does a technically sophisticated, extensive standard range.

For the implementation of the projects of the globally operating partners a team of experienced lighting designers and project managers is available. Ansong is present, in the form of its own establishments or agencies, in major growth regions throughout the world.



Core Competence of Ansong

Individuality Ansong adds profile to visual corporate identities through the medium of light!

Individualized lighting concepts underline the corporate design of a company and hence create competitive advantages. Ambiances in which lighting is experienced support sales by means of optimum illumination of the merchandise presented and provide orientation for the consumer—in that way a feel-good atmosphere is produced and the residence time at the POS is increased. Ansong is wherever the customer is. Here lighting concepts adjusted to the needs and requirements on the spot are developed and implemented with the matching 'Lighting Tools' from a wide range of products. Wherever appropriate and desired, Ansong additionally provides customized product solutions in the form of made-to-measure special luminaires.

Experience Ansong has been placing accents in the lighting market for over 50 years now!

Many years of experience and extensive competence in the field of lighting make for confidence and certainty for our customers. Through numerous instances of long-term cooperation and friendly collaboration with well-known designers and architects, many joint ideas have been developed and unique conceptions implemented.

Economic efficiency Ansong is synonymous with energy and cost efficiency!

The interplay of technically innovative components and high-performance reflectors leads to the creation of luminaires that permit the use of smaller numbers of luminaires as well as lower wattages and actively contribute to saving direct and indirect energy costs. Modular systems make it possible to make use-friendly changes and to carry out maintenance without tools. Professional lighting design forms the basis of efficient and economical lighting concepts. In an integrated conception approach, investment, maintenance and process costs are hence saved and with reference to aspects of economic efficiency a leading technology status is achieved.

Internationality Ansong is active as a global player!

A world-wide sales network and many years of international experience make it possible to comprehensively advise and support our internationally active customers in the course of their global expansion. Ansong is familiar with the complex and differing lighting technology requirements of the international markets and in a position to safeguard international expansion strategies with constant quality of lighting technology. It goes without saying that our products exhibit the necessary international certification.

Responsibility for the environment Ansong believes in treating the environment in a responsible manner!

This principle has formed the basis of Ansong's product development and lighting concepts at all times. Starting from the quality of the lighting components, products are created which are distinguished by their reliability and long product lives—in that way, resources are conserved. The Ansong Product Development Department checks the ecological aspects of the substances and materials used over the entire product life cycle and has products created that comply with the principle 'Avoidance – before recycling – before disposal'. The sequences of operations are performed on the basis of a certified environmental management system – the energy supplied to our location is generated 100% from renewable energy sources.



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Lighting technology LED

Colour rendition

An assessment of LEDs, on the basis of the colour rendition criterion (the index for colour rendition is Ra, often also CRI for Colour Rendering Index) according to the current method can very easily lead to good CRI values, with the visual lighting quality showing a less satisfactory result in certain circumstances. For this comparison, 14 colours were defined by the CIE (International Lighting Commission). However, only eight of these colours are taken into account in the CRI (Colour Rendering Index). So, for better assessment of the quality of a light source, besides the general colour rendering index often special colour rendering indices, for example the R9 (strong red) are also included. White LEDs (blue LEDs with a conversion layer) render the first eight colours, which are rather pastel shades, mostly very well, but have weaknesses in the red range. Therefore it is necessary, besides the CRI value, to also compare the colour R9 (strong red). Moreover, it must be taken into account that, depending on the economic sector, varying high demands are made on the quality of the colour rendition.

Dimmability

LED equipment can be dimmed easily and its colour temperatures (in the case of RGB LEDs) are infinitely adjustable. With this characteristic they provide new approaches for dynamic lighting concepts. In addition, the full luminous flux of the LED is immediately available upon switching-on, while a discharge lamp only reaches 100% of the output with increasing heating.

Product life

The life of an LED chip is often stated as being up to 100,000 hours. It is, however, important to take into account the decrease in the luminous flux over the product life of an LED. From this, real useful product lives of 35,000 – 50,000 hours are obtained. However, high temperatures usually caused by high currents, shorten the lives of LEDs considerably. In order to achieve this life of an LED, therefore good heat management is, therefore, absolutely essential. Due to the long product life, LEDs require practically no maintenance.

Development of heat

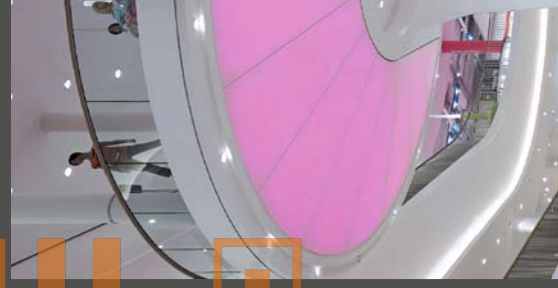
Light-emitting diodes are not thermal radiators and emit almost no heat radiation, but heat is generated directly in the semi-conductor material of the LED, which must then be dissipated by means of a cooling system. The opinion often prevailing that the LED technology does not entail any thermal load for the luminaire system, is therefore not correct.

Efficiency

The parameter for the efficiency of a lamp is the light source efficacy in lumens per watt (lm/W). The more light (lumens) is produced in relation to the electric output (W) the more efficient a lamp is. In the case of LEDs, the efficiency is strongly dependent upon the constant current applied and the temperature. The higher the constant current applied is and the higher the temperature of the LED, the lower the efficiency is. Low-voltage LEDs provide higher relative values than units with higher power packages. The luminous flux in the case of LEDs is, moreover, greatly dependent upon the light temperature. For warm white LEDs this is markedly below that of cold white LEDs. The closer the LED technology gets to the power packages that one is used to from HID lamps, the tougher the technical challenges will become for temperature management if the automatically generated temperature is not reduced. The energy efficiency and the product life decrease. In many applications, therefore, LEDs are not operated at the nominal wattage stated by the manufacturer, but below it.

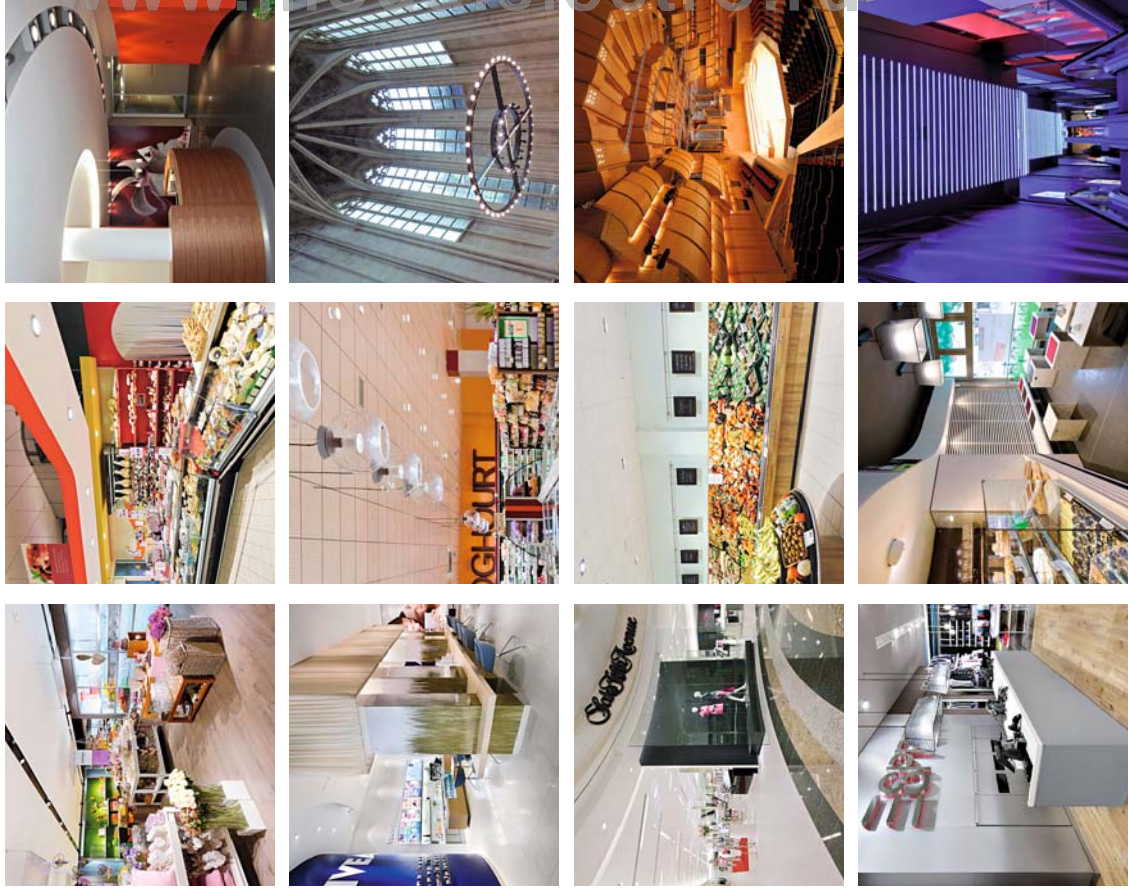
Brilliance

To produce brilliance, point-shaped light sources are required. With an overcast sky and fog high illuminance can in fact be measured, but overall a diffuse light distribution suppresses any brilliance. Conventional lamps using halogen, and HID technology have a narrowly defined light centre and are particularly suited to producing brilliant cones of light via exact reflectors. LED units of higher lumen packages have, in comparison with these point-shaped light sources, as a rule larger effective reflex surfaces. Seen from this point of view, reflector development also needs to be adjusted to this form of light generation.



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Non-Food Lighting

Retailing worlds – shops, boutiques, outlets, showrooms, mega shopping malls and large stores – are a main focus for Ansong. In the success areas of sports, fashion, automotive and beauty Ansong has successfully positioned itself as a trendsetting supplier of modern lighting solutions. Wellknown brands are based worldwide on this know-how. Tried and tested series products which have been awarded design prizes are in this context just as much Ansong's strong point as are situation-related special solutions at the leading edge of lighting technology. It is only with the help of light that the tension field between the observer and the goods becomes a visible and tangible medium. Retailing has therefore, despite e-commerce, or exactly because of it, gone off on flights of fancy as an alternative that can be experienced. New standards, examples and prospects characterise the future lighting business. Good design, the latest technology, the highest degree of ecological protection have become image and marketing factors which particularly at the point of sale can be convincing and be decisive for success.

Food Lighting

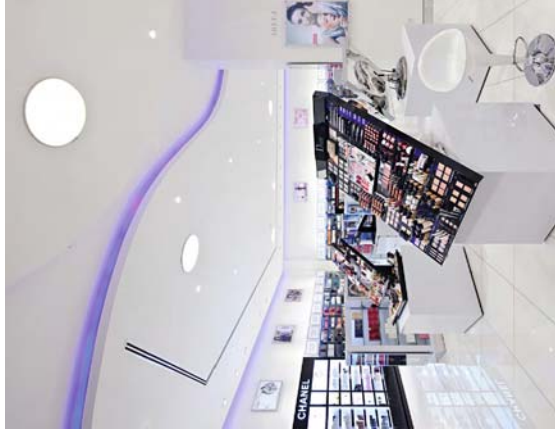
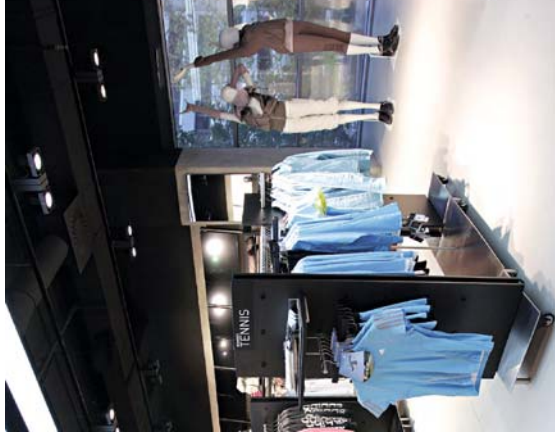
Food makes high demands on optimum scene setting with light. Lighting design in the food area, from discounters to delicatessen shops requires high professionalism and sophisticated know-how. The presentation of food is always an area of invisible values. Compliance with standards, energy savings effects, and excellent lighting qualities are only to be achieved and optimised by means of constant innovation. Light can bring about positive emphasising of the quality of products and underline their authenticity. This quality is in line with the needs of many customers in a world which is increasingly perceived as being too artificial. A further approach from the invisible values of high-quality lighting is of an economic nature: luminaires with innovative lamps and a high luminous efficiency reduce the numbers of units and thus the capital expenditure. Ansong has been dealing with such optimisation and problem areas for decades and is constantly optimising, specialising and focussing its products.

Architectural Lighting

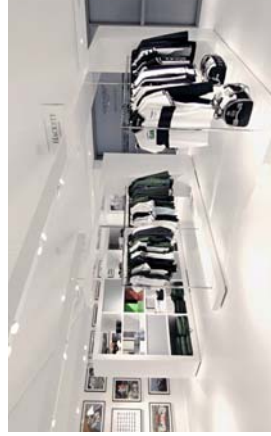
At the start of the 21st century, architecture is increasingly acquiring a greater role and receiving more attention when it is a matter of presenting corporate values and public prestige. Modern architecture and up-to-date design are values which can set buildings, rooms and companies and organisations associated with them apart from the mainstream. Architecture and the lighting design associated with it architectural applications are therefore to be viewed as the royal discipline of lighting design is occupying an increasingly larger guiding example function. The market characterised by high-speed change therefore demands in this segment excellent variable standard ranges as well as highly complex special solutions. Technical building management and lighting design are inseparable components of a holistic lighting solution which we develop jointly with our customers. Space, light, design and ecology provide the new architecture with a characteristic dimension. Together they form an impressive, modern attitude to which we feel committed.



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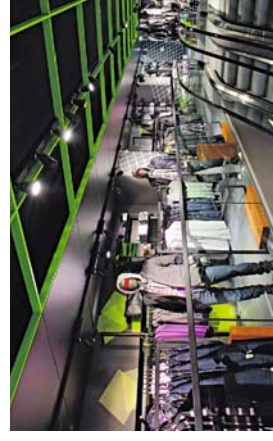
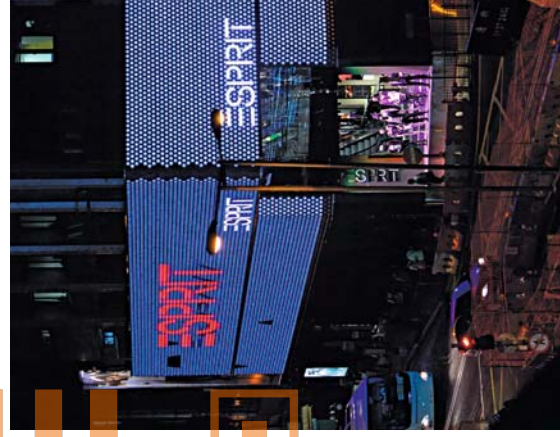


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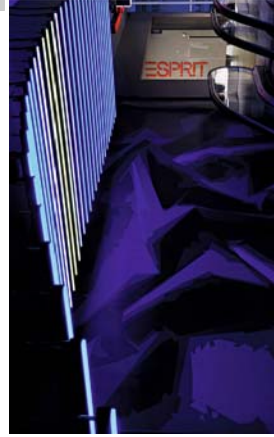


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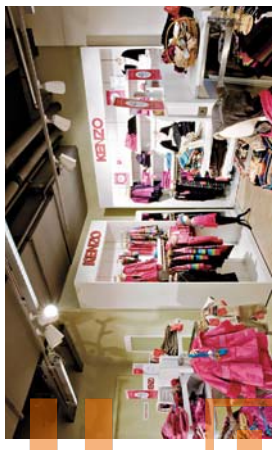


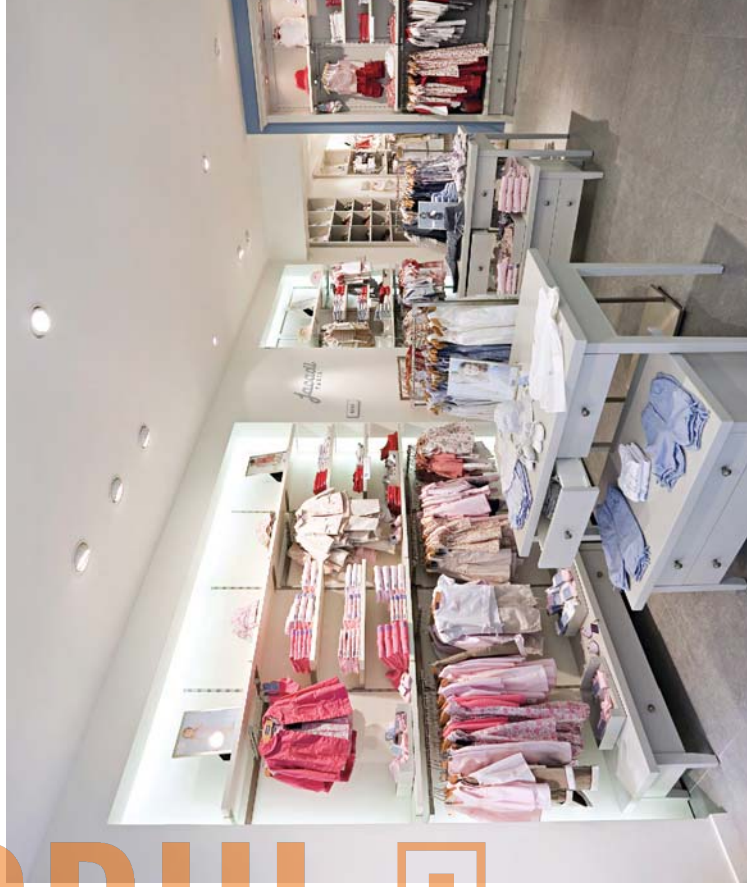
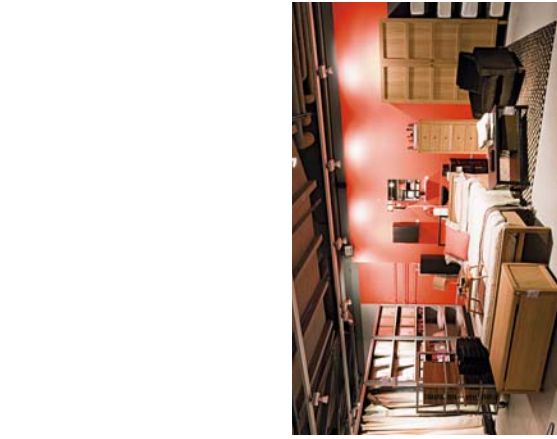
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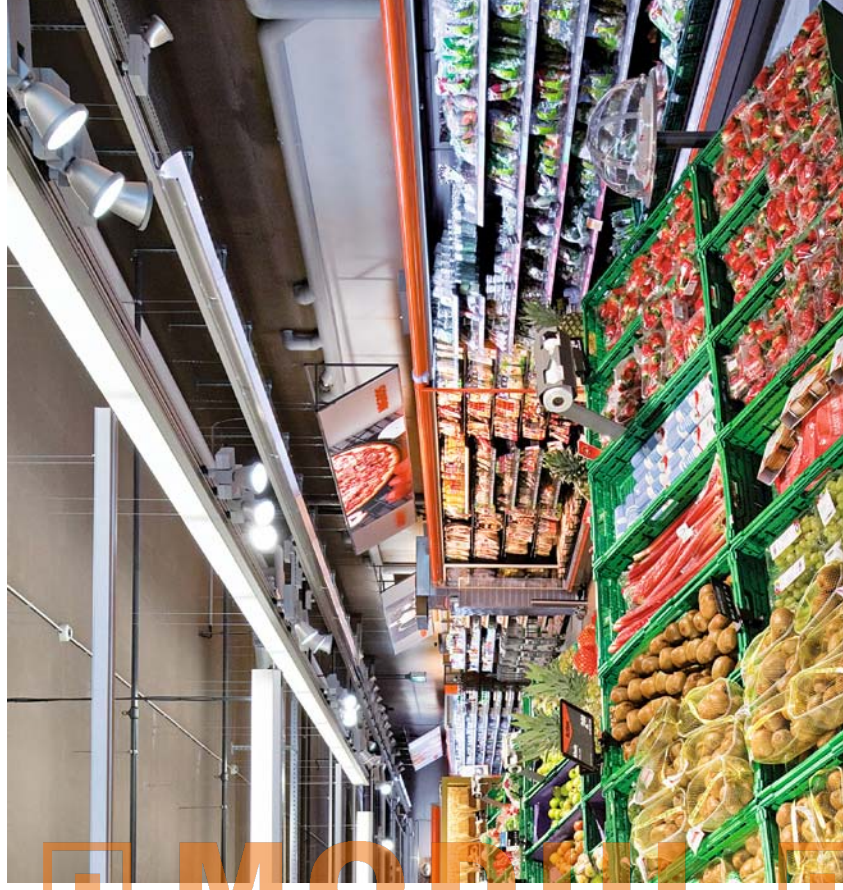
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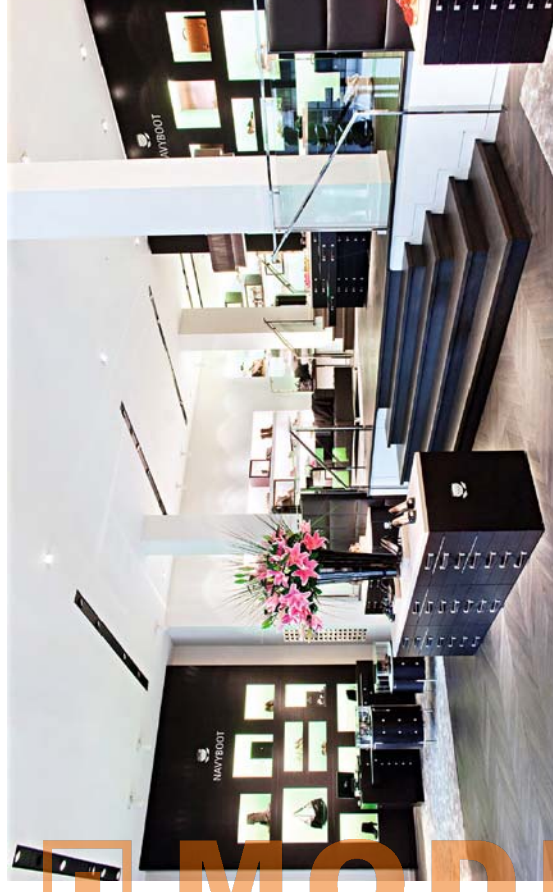
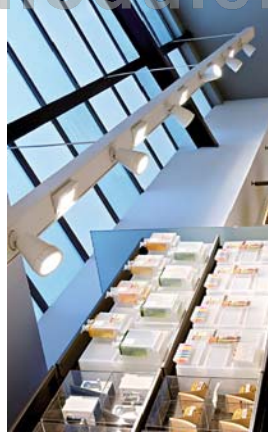
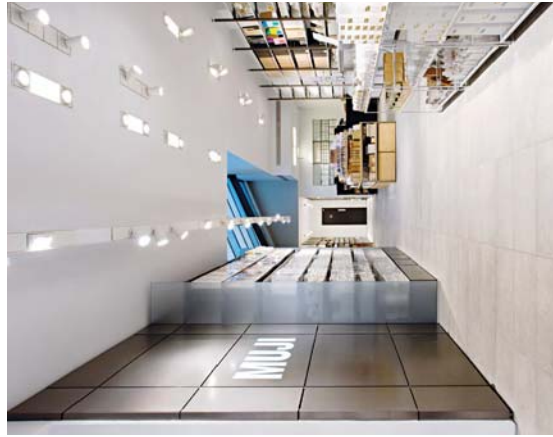
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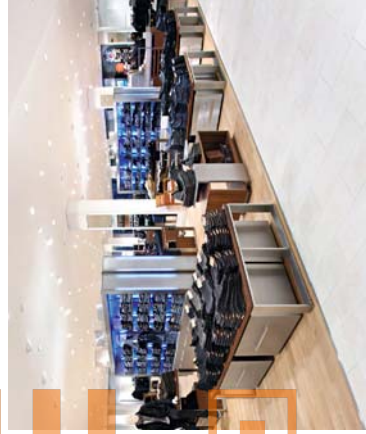




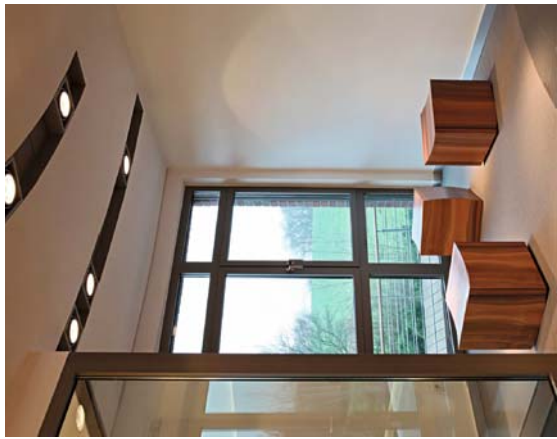
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A Compendium of Lighting Technology

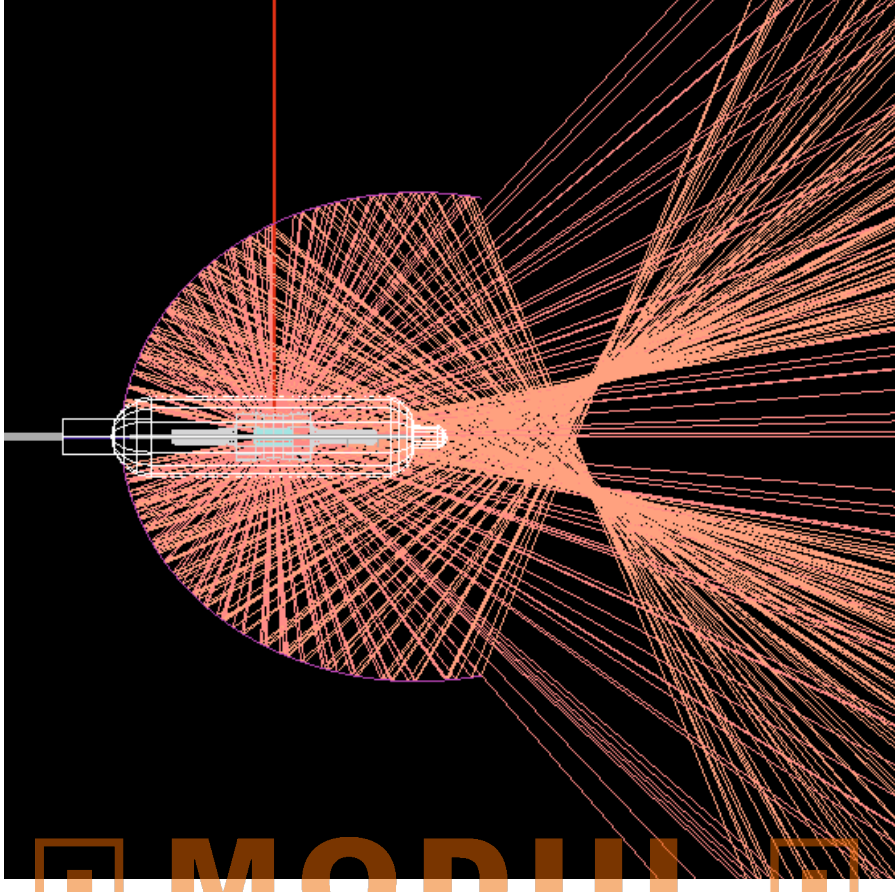
What is the best light for the respective purpose?

Is selling, informing, scene setting, work being carried out? Where is the space or room and what is it like? What is the daylight like? What kind of atmosphere is to prevail? What is the course of gaze like? Where is ambient light to take effect, where are accents placed? How is the light distributed? On what merchandise? In what situations? Where are the basics appropriate? What are special ideas and solutions needed for?

These are questions that our engineers who support development with scientific know-how also ask themselves: where is which luminaire solution the right one with which lamp? With which concept? Where is which technology effective? How to calculate, how to verify? In what intelligent and practicable implementation? And how do you combine innovative technical quality with economic efficiency, sustainability and efficiency?

In this process, many parameters are discussed which we would like to explain on the following pages about reflector calculation and assessment, about lamps, filters and ballasts, about engineering made to measure.

We would be pleased if the following pages fulfilled their useful purpose, and provided help for our readers with one question or another. Or if they permitted insights into how we understand the topic.



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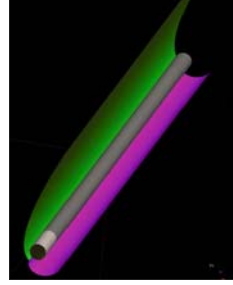
The basic reflector types

Together with the lamp, the reflector determines the light quality and the economic efficiency of a luminaire. It is its task to collect and focus the light and to direct it onto an effective area, with glare being avoided at the same time. Depending on the size, shape and material structure of the reflector, different beam angles and luminous intensity distributions are possible.

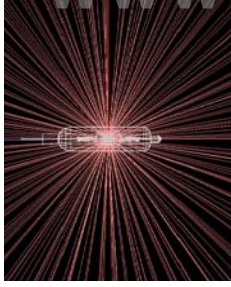
Among others, there are rotation-symmetrical reflectors and strip reflectors. The shape of a reflector is based as a matter of principle on mathematically described curves, the conic sections. In practice mostly freely calculated contours and/or mixed shapes are used in order to permit optimum light distribution for the many areas of application.



Rotation-symmetrical reflectors are produced by the rotation of a previously calculated reflector contour around any axis. They are used with point-shaped lamps.

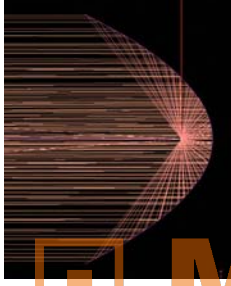


Strip reflectors are produced by the displacement of a previously calculated reflector contour perpendicular to the plane of projection. A distinction is to be made between symmetrical and asymmetrical reflectors. They are used for elongated, tubular lamps.

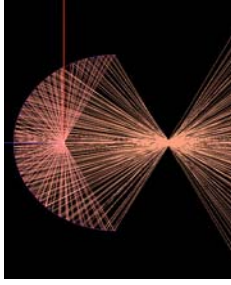


General diffusion light source
A general diffusion lamp distributes the light flux throughout the whole room.

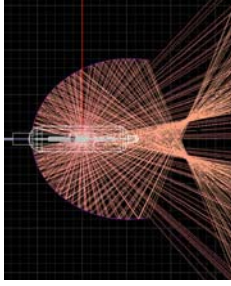
The basic reflector shapes



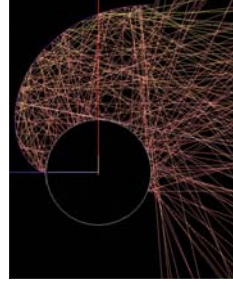
Parabola
Each parabola encloses a focal point. All of the light beams originating from this point are reflected parallel to the axis. The parabola shape generates a narrow beam angle for precisely accurate illumination.



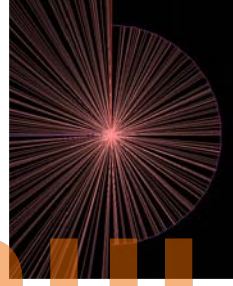
Ellipse
The special feature of the ellipsoid reflector is to be found in its two focal points. All of the beams originating from the first focal point are reflected to the second focal point. If the second focal point is in the emergence plane of a ceiling opening, it is possible to direct a lot of light through narrow apertures.



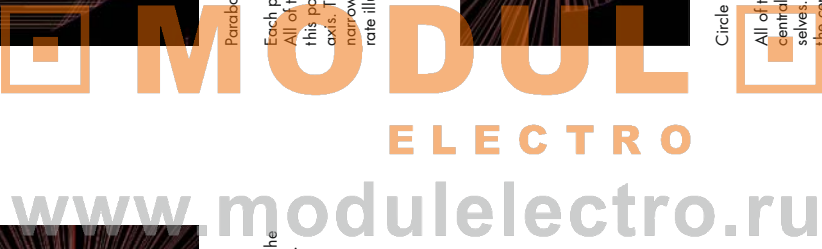
Mixed shape with Silla as the example
In practical application the curves often deviate. They are calculated freely in order to systematically comply with problem definitions. The spotlight Silla is positioned in the centre of aisle areas and illuminates rows of shelves on the right and the left at a certain height at the same time. In this case several reflector segments in a transverse direction were used.



Involute
The involute is not one of the conic sections. With it every light beam tangentially leaving the intersecting plane of a tubular lamp is reflected in itself and directed around the lamp. No reflection takes place. In that way the lamp is subjected to only little wear and the efficiency is increased. The shape of the involute is used, for example, as a head reflector for fluorescent lamps/flamphen.



Circle
All of the beams originating from the central point are reflected in themselves. Upon a slight displacement from the central point position a real image of the lamp is produced immediately adjacent to the original lamp. This contour is used in counterreflector systems.



Things worth knowing about reflector technology

On the quality of reflector calculation, Part 1

What counts with regard to the lighting in a museum or an open-plan office, is not mandatory for merchandise presentation in a department store or shop – and vice versa. The basis for the reflector calculation consists of the specific, individualised demands made by our clients, lighting designers or architects.

Technical requirement parameters are, for example, the type and wattage of the lamp, the beam angle to be achieved, the reflector diameter, the qualitative form of the light intensity distribution curve (UDC). Further general quality requirements are: homogeneous beam pattern, appropriate glare reduction, a long product life of the lamp and the ballast equipment as well as, decisively, the energy efficiency and the light output ratio.



The matching beam angle for the lighting task

The beam angle to be achieved is obtained from the radius of the circular area which is to be illuminated and the space between the light points. Therefore the smaller the angle is the narrower/brighter the illumination of the object is, the wider the beam angle is the larger/weaker the illumination is. In shop lighting, the most varied products are illuminated – from mobile phones via the fashionable outfit as far as the shelf area. From this, demands made on the size of the cone of light are deduced, in order to cover the wide range of tasks required in actual practice, Ansoerg's range comprises four main reflectors.

Illustrations:

Super Spot reflector 0° – 9° for precisely accurate scene-setting for very small items of merchandise

Spot reflector 10° – 19° for the illumination of individual objects such as bags or pictures

Medium Flood reflector 20° – 29° for larger objects such as busts or furniture

Flood reflector 30° – 39° for the illumination of shop window dummies or shelves

without illustration:

For wall illumination there are special wide reflector types:
Wide Flood 40° – 69°
Very Wide Flood > 70°

Reflector diameter

An important parameter for the development of the contour is the size of the reflector diameter. This can, for example, in the case of recessed luminaires, be deduced from the ceiling cut-outs. At Ansoerg there are mainly standardised ceiling cut-outs of 130mm and 185mm which make the design of a homogeneous ceiling pattern possible and reduce mounting costs and times.

A further criterion is the lamp opening. It has an influence on the light output ratio. It is necessary to place the reflector as close as possible around the lamp so that no light is diffused towards the rear and lost unused.

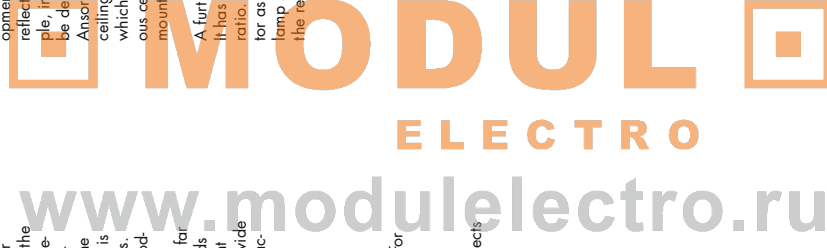


Operating efficiency

The efficiency of reflector/luminaire systems is generally equated with the LOR (light output ratio) efficiency. However, this stands only for the quantity of light output by a luminaire. The assessment of the efficiency of a reflector exclusively according to its LOR value is one subtle aspect and can in certain circumstances produce a misleading result.

One simple example: a freely burning lamp has, for example, an LOR of 100%, but the illuminance is not sufficient for accentuated illumination of the object, because the light is distributed undirected within the room. It therefore does not arrive where it is actually needed. A high LOR efficiency is therefore not synonymous with the optimum fulfilment of the lighting task.

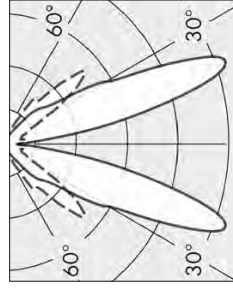
On the other hand, efficiency is generally defined as the ratio of effort and performance. For reflectors, the objective is to direct as much light as possible in a required direction: what is decisive is that arrives where it is meant to arrive. At Ansoerg one therefore talks of an application-orientated efficiency.



Light distribution curves

The specific distribution of the light flux arising from reflection can be pictorially presented with the help of a standardised light intensity distribution curve (LIDC). It describes the desired light distribution in the room and is a target for the development of the reflector contour.

Decide for the light distribution curve of a reflector are the shape and size of the burner image in the reflector.



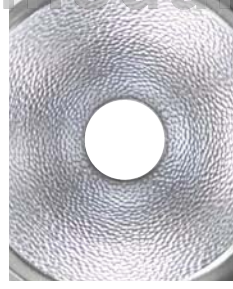
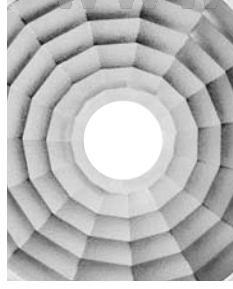
The light distribution curve shows the optimum and clearly delimited double directional beam of the luminaire Silla STL.

Reflector material

The surface also plays a part in deciding the assessment of the quality of a reflector. The degree of reflection defines its quality level: simple solid aluminium material has a high degree of reflection reaching 85%, high-grade reflector material provides degrees of reflection of 95% and above.

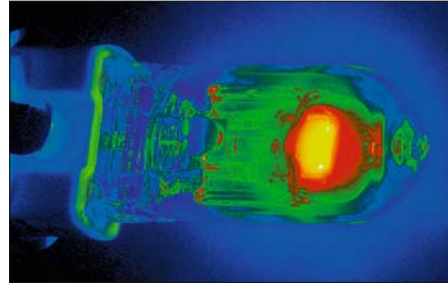
By means of different surface structures, further possibilities are obtained for the optimisation of the light beam pattern.

- Roughening (sandblasting) (figure 1)
- Microstructures (ball indentations) (figure 2)
- Plane facets in the circumferential direction (figure 3)
- Plane facets in the contour direction (figure 3)
- Convex facets in the contour direction (figure 4)
- Convex facets in the contour and circumferential directions (with/without figure)



Verification of the reflector contour

On the basis of the contours calculated beforehand, the contours prepared are read in with a separate simulation program and theoretically evaluated with a real light source and, if necessary, corrected. At the beginning of the simulation, a high-gloss surface material is used that reacts particularly sensitively. The result of the simulation is a light distribution curve which serves as an assessment and decision-making basis before production of the tool or sampling takes place.



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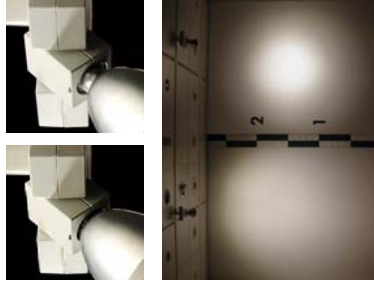
Things worth knowing about reflector technology

Selected product examples

Focusable reflector with Boxx as the example

The flexible luminaire provides the functions general or ambient lighting and accent lighting in one product.

What is special about Boxx is its user-friendly technology: the spotlight can be focused without the use of tools and infinitely variably from 20° to 50°. By means of simple turning of the reflector, you can achieve different light beam patterns – whether narrowly accentuated or wide beamed. Different beam angles are therefore possible without change of reflector and this is advantageous in sales rooms with varying positioning of merchandise. The high-grade reflector material is sand-blasted and minimises scattering losses.



By means of infinitely variable reflector adjustment, the beam angle of the light changes, leading to a narrower or wider light distribution.

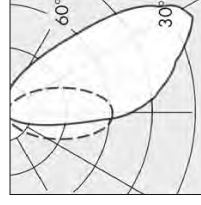
Interchangeable reflectors with Brick as the example

The option of a large variety of interchangeable reflectors characterises the Ansong range. The luminaire Brick is compatible with different reflectors – achieved with a uniform burning position. Four reflectors with faceted surfaces and four different beam angles are available. By means of the easy and user-friendly reflector replacement, Brick permits the performance of all tasks: from point accent lighting to large-area scattered lighting.



Homogeneous wall illumination with Bola as the example

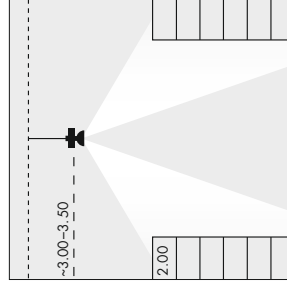
The luminaire Bola provides, by means of the tilted forward 2-component reflector, a homogeneous, and full-area light distribution on the walls – as far as the ceiling. The light quality and the large-area light distribution additionally permit large spaces, between luminaires in lighting design, thus reducing investment and running costs.



The asymmetrical lighting distribution produces optimum illumination of the peripheral area.

High-grade reflector material with Silla as the example

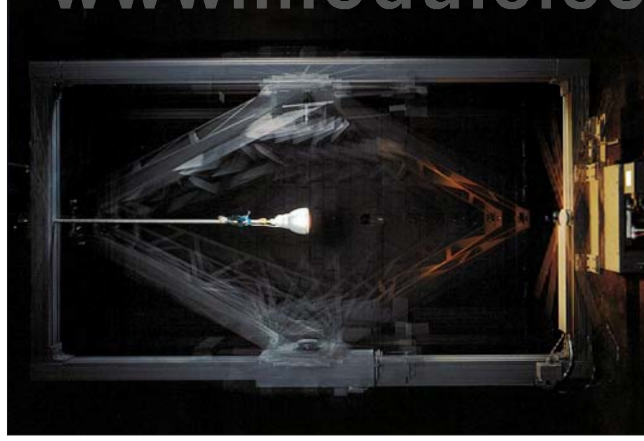
The spotlight Silla designed for aisle area and shelf lighting is equipped with ultra-high-grade reflector material. This aluminum material has an extremely high degree of reflection of up to 95%. As a result, scattering losses are minimised and the light quality is increased. Also in the case of large spaces between luminaires, the homogeneous illumination is included to the full extent, a fact indicating great economic efficiency. Silla provides three reflector types as variants for different areas of use.



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Ansorg's lighting laboratory is a home advantage. Its equipment includes a computer-controlled goniosphometer with an additional CCD camera: in that way the beam angle, light distribution, luminance, operational efficiency (LOR) of luminaires as well as the spectral distributions of lamps are determined according to standard. The lighting laboratory provides our engineers with excellent conditions for exploring, analysing and improving developments and products. At the same time, an important aspect is that the lighting technology requirements are not only achievable, but also reproducible.

Ansorg luminaires naturally comply with all standards concerning safety. Authoritative standards are the European standards for equipment safety (EN60598) and the German Electromagnetic Compatibility Act. This is confirmed by the certificates from many test institutes, including international ones. Our aspirations go far above the basic requirements of these standards and are documented in our own company standards. So that Ansorg products can satisfy the increasingly stringent demands, the involvement in specialist committees and working groups of ZVEI, IITG and DGNB (German Sustainable Building Council) is a further, future-orientated quality criterion.



Computer-controlled goniosphometer in the Ansorg lighting laboratory



Generation of light

In an LED lamp (light-emitting diode), the positive charges (+). These opposing charges generate, upon their neutralisation, visible light and heat. The LED energy balance is approximately 20% light and 80% heat, i.e. there is hardly any heat radiation in the form of IR light.

The heat produced must, however, be discharged from the semi-conductor material elsewhere, by means of active or passive cooling. That LED technology does not involve any thermal load for the luminaire system is, therefore, not correct.

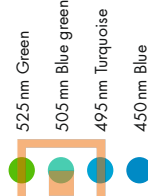
Colour temperature of light

There are two LED type classes: one for 'warm' and one for 'cold' LED colour temperatures

Type class 1



Type class 2



How is white light produced?

There are two practices applied for generating white light from coloured LEDs.

With the first variant, the light of a blue LED is converted into white light with the help of a conversion layer (mostly phosphorus). The second possibility is the RGB principle and in this case red, green and blue LEDs are mixed to produce white light.

Binning

The method for the formation of colour classes and light flux classes in LED production is called 'binning'.

A 'bin' comprises several LEDs of approximately identical light colour temperature and/or identical light fluxes. Quality-orientated producers design their bins on a very narrow-mesh basis in order to keep the variance of colour temperatures within one bin as low as possible. Binning is a time-consuming and costly process – quality has its price

Temperature characteristics and product life

The light flux of an LED rises almost linearly with the power consumption. Unlike an HIL lamp which, with increasing heating up also emits more light, the light flux of the LED drops off with increasing heating up, as does the product life.

The mean product life of the LED chip, often stated as being 100,000 hrs, plays only a subordinate role in lighting practice. What is important here is the definition of the drop in the light flux over the service life of an LED. This results in real effective product lives of 35,000 – 50,000 hours. In order to achieve this target value, good heat management is an absolutely essential prerequisite.

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Luminaire development with LEDs

- Since LEDs entail hardly any thermal radiation, the heat must be dissipated by means of intricate heat sinks or an active cooling system
- LED technology necessitates new reflector design, as an LED hardly protrudes into the reflector. Hence the light directing has to be redefined.
- At present there are hardly any standardised LED solutions on the market.
- The availability is not always guaranteed
- LEDs and LED modules differ very widely with regard to the structural shape and the quality
- Ballasts for the latest LEDs are not yet available
- The replacement of an LED is, unlike conventional lamps, not necessary.

Advantages of LED technology

- It produces UV/IR-free light and so there is, in comparison with conventional lamps, no thermal radiation to the illuminated object
- Due to the hemispherical radiation pattern of the LED, no directing of the light flux around the light source is necessary. At this point there is no light loss as a result of which the efficiency of the LED rises
- It revolutionises light in its controllability. For example coloured and dynamic colour light can be generated and the LED light flux can be completely dimmed. The full light flux is, moreover, available immediately after switching-on.
- It shows marked advantages in power consumption as compared with low-voltage halogen luminaires or luminaires for compact fluorescent lamps
- It has a long product life of up to 50,000 hrs, permitting long maintenance intervals
- It is vibration and shock-proof
- It also permits new structural shapes in luminaire development

LED in comparison with HIT

Focused on at this point is above all the assessment of the LED technology at the present stage of development (March 2010) as compared with the HIT technology.

As the table on the right makes clear, in the case of certain values a marked discrepancy can be seen. Especially in the case of the light-source efficacy and the illuminance, the HIT technology remains superior now as before.

The current state of development of LED products by the most varied manufacturers can quite possibly yield products which, regarding individual criteria, show markedly better values. Ansoerg's on-going market monitoring is aimed, however, at the development of a high-quality LED module that meets the requirements regarding all quality criteria.

Hence, depending on our customer's requirement, the HIT technology is often superior to the LED technology, e.g. if importance is explicitly attached to the highest possible colour rendition.

Ansoerg's already formulated philosophy requires reliable and safe quality that provides the customer with a high-class lighting solution in the medium and long terms.

Also in the case of the lamps we recommend quality is given top priority. Only if they meet the requirements stated, are they used. Stipulations for optimum lighting effect involve, for example, the light flux, the colour rendition and the light colour temperature. In this connection, we are dedicated to weighing up all of the criteria for the individual case and to making the correct choice. Our clients can have confidence in our many years of experience and expert knowledge. Ansoerg relies on the suppliers which are the market leaders as regards technology.



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Luminaire	Downlight with compact fluorescent lamp	Downlight with low voltage halogen lamp	Downlight with metal halide lamp	Downlight with LED module
Lighting technology	TC-TEL	QT-IP 12 IRC	HIT G8.5	LED-Modul
Wattage	42 W	50 W	35 W	45 W
Light flux	3,200 lm	1250 lm	3800 lm	2000 lm
Light-source efficiency	76 lm/W	25 lm/W	109 lm/W	45 lm/W
Colour rendering index (CRI)	80	100	90	80
Colour temperature	3000K	3000K	3000K	3000K
System wattage	46 W	53 W	42 W	46 W
LOR*	0,6	0,7	0,7	0,9
Illuminance*	480 lx	220 lx	665 lx	450 lx

Light output ratio LOR* = light-source efficacy of the luminaires
Illuminance intensity * = mean luminous intensity over an area of 4m²

The table shows the main features for the selection of the lighting technology and/or of the lamp. The list includes the lighting technologies primarily used in the market. The values stated refer to the stage of development in March 2010.

Things worth knowing about selection of the right filters

Mood filters create atmosphere.

Besides the reflector and the lamp, from case to case the filter also plays a part. In this combination lies the recipe for a presentation with the right colour.

The coatings of these Mood filters, also referred to as conversion filters, vary the colour rendition with different intensities. Their uses emphasises, for example, desired colours of main areas or underlines colour moods.

In the area of food retail, Ansong relies on the Mood filter technology in combination with HID lamps which are markedly more efficient than filter technology in combination with HST technology.



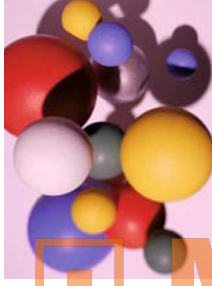
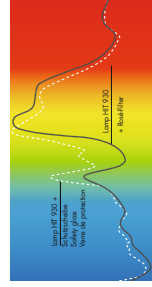
Comparison picture with safety glass



This combination positively emphasises the colour rendition in the red range. The rosé filter reduces colour portions in the green range.

Can be recommended for

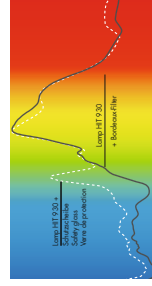
- sausage products
- meat products
- pink shades in pastries/confectionery
- In combination with pure white lighting colours (942) suitable for fish/seafood



This combination intensifies the desired red portions in the colour spectrum.

Can be recommended for

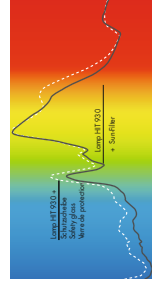
- fresh meat



This combination accentuates the colour rendition in the yellow/orange range. The filter reduces portions in blue. As the name says, the filter ensures a sunny mood.

Can be recommended for

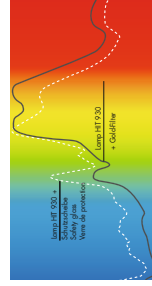
- fruit and vegetables
- flowers
- health and beauty
- fashion
- sport and leisure
- opticians
- gastronomy
- furniture



With a gold shade, the colour spectrum of the merchandise presented is intensified.

Can be recommended for

- leather goods, shoes
- wood
- cheese and bakery products
- tobacco products
- brown tones in pastries/confectionery
- bookstores
- homestores
- earthy colours in gastronomy



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Long product life, simple installation

For HIT lamps a new generation of conventional (KVG) and electronic (EVG) ballasts is in use. Technical innovations increase the product lives of the ballasts and set new safety standards. They are extremely practical as regards installation and since very recently they have been available in almost all wattages.

Protection from overvoltage and overheating

Overloaded voltage networks and voltage peaks are increasingly reducing product lives. The new electronic ballasts are protected from high voltage pulses of up to 2,500 volts, standard equipment is merely for 1,000 or 2,000 volts.

Excessively high ambient temperatures can heat up and destroy a ballast. The new products are rated for +55°C. As soon as the temperature rises further they switch off automatically and switch on again by themselves after the programmed cooling-down phase.

EOL (end of life) cut-off

As soon as the lamp has reached the end of its useful life and the lighting quality deteriorates, the ballasts cut off automatically. There is no flickering, the system is not overheated and the user on the spot immediately realizes when a lamp has to be replaced.

Longer product lives.

The technical advantages result in a longer service life which saves the need for frequent replacement of the ballasts and indicates economic efficiency. The conventional ballasts have an average product life of 50,000 hours at an ambient temperature of 50°C. In the case of electronic ballasts even a minimum product life of 30,000 hours is guaranteed.

Simple installation with plug & play.

Connecting up the luminaire is very easy. The integrated jack for the Wieland safety plug system permits direct connection of the luminaire and mains cable to the ballast. This results in a flexible and simple change of wattage, e.g. from 35 W to 70W. This aspect is of importance particularly for constantly changing display and decoration spaces in the retail area.



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Lighting technology made to measure.

One of our specialities is the development and production of individual special luminaires. For a good reason, since for our customers the result is an unmistakable element of corporate identity, an independent part of corporate culture: luminaires that contribute their share to the unique position and differentiation in competition. Via the design. Or via the function: those rather nondescript luminaires that solve complex problems on the spot, provide innovative approaches and combine quality with economic efficiency.

This problem definition is related to real challenges. For this, in the everyday work of the company not only many years of experience and high flexibility are required, but especially staff with expert knowledge, in order to put the concepts into practice without any problems. Many successful projects are for us definitive proof of the fact that theory intermeshes with practice: for internationally expanding fashion brands, ultra-modern shopping malls, airports and cultural centres.



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Beam angle

The beam angle is the opening angle of the light beam of a luminaire or reflector lamp. It is determined by the type of construction of the reflector. Luminaires with a small beam angle produce small, brightly illuminated areas. Light sources with a wide beam angle produce large, but less brightly illuminated areas. In the opening angle the luminous intensity drops off to half of the maximum value.

For homogeneous illumination, wide beam luminaires with large beam angles must be used. For accent lighting as a rule narrower beam light is necessary. The characteristic of wide beam light with larger beam angles is designated as 'Flood' and 'Wide flood', that of narrow beam light with a small beam angle – for example 10° – is referred to as 'Spot'.

Ansorg distinguishes between six main beam angles:

- Superspot 0° – 9°
- Spot 10° – 19°
- Medium flood 20° – 29°
- Flood 30° – 39°
- Wide flood 40° – 69°
- Very wide flood >70°

Illuminance

Illuminance (letter symbol: E, unit of measure: lux) defines how much light – from a lighting technology point of view – more precisely how much light flux (in lumens) – falls on a certain area: it amounts to one lux, if the light flux of one lumen homogeneously illuminates an area of one square metre.

The illuminance is measured with an illumination photometer on horizontal and vertical surfaces. It does not, however, precisely describe the brightness impression of a room, as this depends mainly on the reflection characteristics of the room surfaces. In that way a white room appears, with the same illuminance, brighter than a dark one.

CCD camera

CCD stands for charge-coupled device, a semi-conductor technology. A CCD camera is an image-resolving luminance measuring camera.

Colour temperature

The light colour temperature of a lamp is described by the colour temperature in Kelvin (K). The commonly used lamps have colour temperatures in the order of magnitude of less than 3,300 Kelvin (warm white), 3,300 to 5,300 Kelvin (neutral white) to less than 5,300 Kelvin (daylight white).

Colour rendering index (CRI)

The colour rendition of a lamp characterizes the colour effect which its light brings about on objects or persons. It is rated with the general colour rendering index Ra. This indicates how naturally colours are rendered in the light of a lamp.

The colour rendering index is derived from eight frequently occurring test colours. Ra = 100 stands for the best value; the lower the index is, the worse are the colour rendition characteristics. Lamps with an Ra-index of less than 80 should not be used indoors.

Goniophotometer

A goniophotometer is a laboratory device for the measuring of room luminous intensity distributions.

Lamp wattage

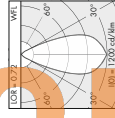
The power consumption (also lamp wattage) describes the electric power in watts (W) consumed by a lamp or a ballast. In the case of low-pressure and high-pressure discharge lamps, the addition of lamp wattage and power consumption of the ballast give the system wattage.

Luminous intensity/ luminous intensity distribution

The luminous intensity (letter symbol: I) is the part of the light flux that radiates in a certain direction. It is measured in candela (cd).

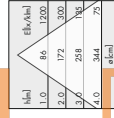
The spatial distribution of the luminous intensity (luminous intensity distribution) characterises the luminous exitance of luminaires and reflector lamps. The luminous intensity distribution is presented graphically in the form of curves, the luminous intensity distribution curves (LIDC).

Presentation of the photometric data:



Polar diagram

If the luminous intensity (candela, cd) in the room (or within the planes) around the lamp or luminaire are measured and recorded, the luminous intensity distribution is obtained. This photometric curve is presented in what is referred to as a polar diagram. The luminous intensity is standardised to a lamp luminous flux of 1 000 lm.



Illuminance cone

The illuminance cone is used to illustrate the beam patterns of rotation-symmetrical luminaires. It describes the light bundle emitted at one-half-beam-divergence or half-value angle. This is the term used for the aperture angle at which maximum luminous intensity is achieved at a beam angle of 0°.

Luminance

The luminance (letter symbol: L) is the measure of the brightness impression that the eye gains from a luminous or illuminated area. The luminance is measured in candelas per unit area (cd/m²).

Operational efficiency (LOR)

The operational efficiency or light output ratio states how much of the luminous flux generated by a lamp actually leaves the luminaire. The type of directing of the lamp's luminous flux and the thermal conditions inside the luminaire determine the light output ratio.

Degree of reflection

The degree of reflection states what percentage of the light flux falling on a surface is reflected. Light surfaces have a high degree of reflection and dark ones have a low degree of reflection: white walls reflect up to 85 % of the light, panelling in light coloured wood still up to 35 %, red bricks, on the other hand, only up to 15 %. Conclusion: the darker a room is furnished, the more light is required to achieve the same illuminance on the working plane.

The illuminance cone diagram shows illuminance available within an area delimited by the half-value angle (light cone diameter) for various mounting heights. The illuminance values E [lx] refer to the centre of the illuminance cone.

h [m]	E [lx]
0.5	100
1.0	25
1.5	11
2.0	6
2.5	4
3.0	3
3.5	2
4.0	2

Chart wall illuminance

For asymmetrical luminaires, illuminance values are given for different mounting heights and distances between walls. The illuminance values likewise refer to the centre of the illuminance cone.

Light-source efficacy

Light-source efficacy is the measure of the economic efficiency of a lamp. It states how much luminous flux in lumens (lm) per watt (W) of its power consumption a lamp generates. The higher the ratio of lumens/watts, the better a lamp applies the energy introduced. Here are some examples:

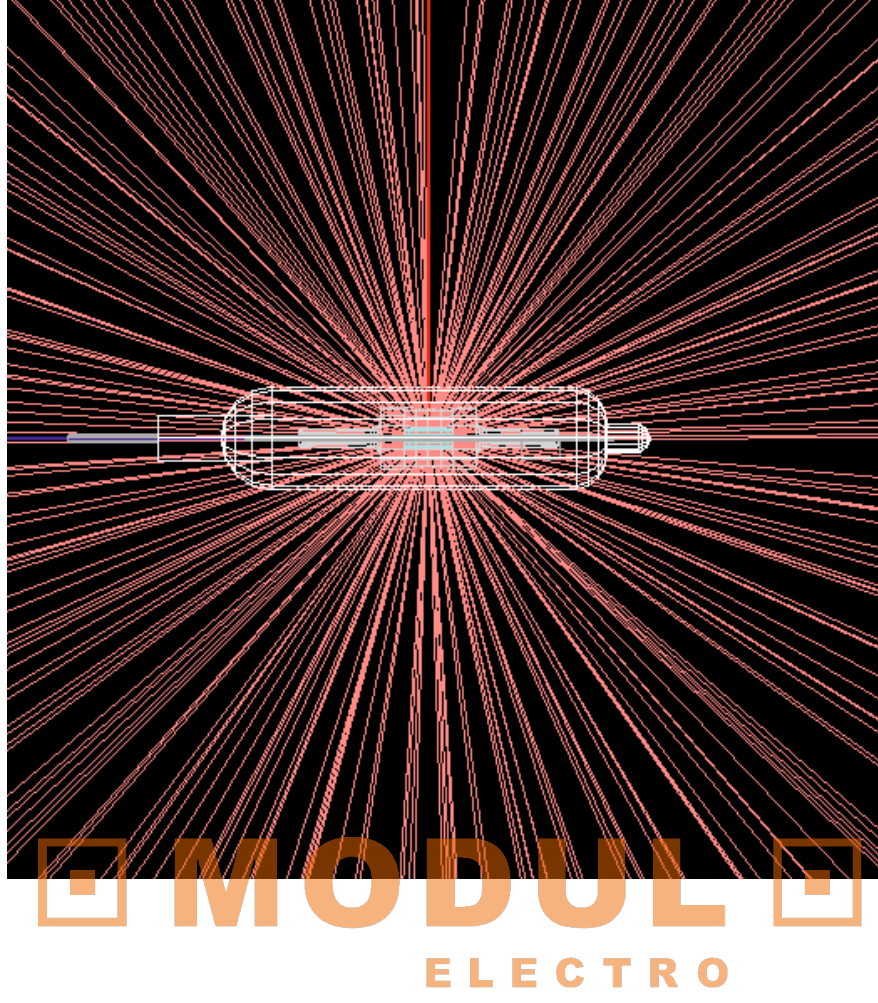
- Metal halide lamp 100lm/W,
- Halogen lamp 30lm/W,
- Compact fluorescent lamp 75lm/W,
- Tubular fluorescent lamp 100lm/W.

Light flux

The light flux or luminous flux – measured in lumens (lm) – is the luminous efficacy of a lamp. It describes the output radiated by the light source in all directions in the visible range.

Marks of conformity





















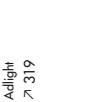



































	Safety class I: Luminaires for connection to the mains-end protective conductor
	Safety class II: Luminaires without connection to the mains-end protective conductor
	Safety class III: Luminaires for operation with protective low voltage
IP20	Enclosure type IP 20 : protected from solid foreign bodies > 12mm; no protection from water
	Use of the luminaire possible in/on normally flammable fastening surfaces
	MM mark: Luminaire suited for installation into furniture
	European mark of conformity
	National mark of conformity
	Safety tested in accordance with the Act on Appliance and Product Safety (GPSG)
	Electromagnetic compatibility (EMC)
	Russian mark of conformity
	Ukrainian mark of conformity
SASO	Registration for Saudi Arabia

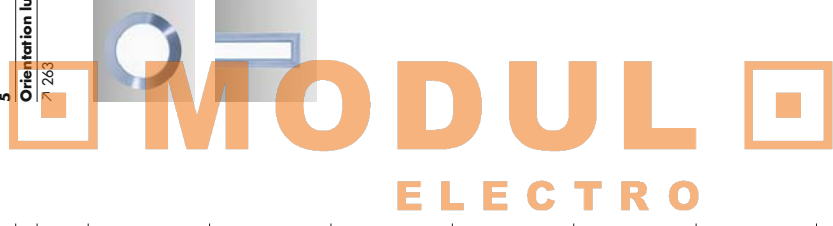


Lighting Tools Compendium

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- Spotlights
- Recessed spotlights
- Downlights
- Suspended luminaires
- Orientation luminaires
- Systems
- Redirecting systems
- Accessories

1	Spotlights ↗ 69		Bit ↗ 73		Bello ↗ 141		Bello ↗ 141		Classic ↗ 215		LEDder ↗ 267		Beam ↗ 361		Tracks ↗ 370
2	Recessed spotlights ↗ 137		Box ↗ 77		Punta ↗ 147 LED under development		Pizza ↗ 195		Velo ↗ 89		Cardo ↗ 307 LED under development		Cardo ↗ 307 LED under development		Adlight ↗ 319
3	Downlights ↗ 169		Bello ↗ 141		Punta ↗ 147 LED under development		Pizza ↗ 195		Velo ↗ 89		Cardo ↗ 159 LED under development		Cardo ↗ 159 LED under development		Cordline ↗ 333
4	Suspended luminaires ↗ 211		Maxx ↗ 173 New: with LED		Sino ↗ 239		Cupola ↗ 247		Cone ↗ 257		Silla ↗ 131		Silla ↗ 131		Vario ↗ 339
5	Orientation luminaires ↗ 263		LEDder ↗ 267		LEDder ↗ 267		LEDder ↗ 267		LEDder ↗ 267		LEDder ↗ 267		LEDder ↗ 267		LEDder ↗ 267
6	Systems ↗ 271		Cardo ↗ 307 LED under development		Adlight ↗ 319		Cordline ↗ 333		Vario ↗ 339		Vario ↗ 339		Vario ↗ 339		Vario ↗ 339
7	Redirecting systems ↗ 357		Beam ↗ 361		Mirror ↗ 365		Mirror ↗ 365		Mirror ↗ 365		Mirror ↗ 365		Mirror ↗ 365		Mirror ↗ 365
8	Accessories ↗ 371		Tracks ↗ 370		Electronic ballast ↗ 376		Conventional ballast ↗ 381		Transformers ↗ 384		Supply units ↗ 385		Lamp ↗ 388		Mood-Filler ↗ 56



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Further products with LED technology are available on request.



Br 773

- Neutral, unobtrusive use of shapes
- Particularly economical spotlight with a light output ratio of up to 80%
- Material selection from the point of view of sustainability
- Very good price/performance ratio (low investment per lumen)
- Large variety of accessories such as Mood fillers and various attachments for glare reduction



Boxx 777

- Geometrical, graphic design
- Zoom reflector with infinitely variable beam angle permits the adjustment of the light beam to every requirement with only one movement of the hand
- The flat structure of the spotlight is suitable particularly for low room heights – also in the tilted-out state



Velo 789

- Compact, organic use of shapes
- Integrated temperature separation between reflector and ballast equipment in a very confined space: this results in a higher product life for all of the components and at the same time makes a compact structural shape possible
- Efficient reflectors and a high light output reduce the number of luminaires required



Brick 795

- Geometrical, pure design
- Qualitatively high-grade material version made of diecast aluminium permits optimum accuracy of fit
- The position of the tilting mechanism at only one point makes it possible to use it as a directional spotlight or as a down light
- Design networking with the product lines Lightstripe and Vario



Tecno 7107

- Reduction to a basic geometrical shape
- Facelit: greater economic efficiency due to the use of low-loss electronic ballast equipment with optimized reflector efficiency
- Large variety of accessories permits different lighting scenarios



Cardo 7115

- Technical design
- Gimbals-mounting permits the directing of the light in any direction desired
- Two lighting heads in one product and the possibility of combining various lighting technologies reduce the number of luminaires
- Housing position permits stringent ceiling design

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Stage 7121

- Spotlights of theatre stage-type design
- Accessories for dramaturgical lighting effects at the point of sale
- For accent lighting and scene-setting for special areas



Silla 7125

- Technical design
- One housing – three reflector types – three applications
- Economical lighting solutions for the food area
- Homogeneous, vertical shelf lighting and non-glare aisle illumination
- Efficient reflectors permit large distances between luminaires and reduce the number of luminaires
- Product family with a large variety of mounting possibilities
- Design networking with Boxx and Sino

Spotlights Bit

- 1
- 2
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In the form of the surface-mounted spotlight BIT, the product range was extended by a very economical and efficient spotlight. By the use of high-grade components and reflectors a light output ratio of more than 80 % was achieved. The neutral, unobtrusive use of shapes makes it possible for BIT to be used in a variety of ways. The choice of materials was made especially from the points of view of sustainability and environmentally compatible disposal. In addition, BIT impresses with its wide range of accessories such as interchangeable reflectors, Mood filters and glare-reduction attachments which can all be replaced without the use of tools.

- Neutral, unobtrusive use of shapes
- Particularly economical spotlight with a light output ratio of up to 80%
- Material selection from the point of view of sustainability
- Very good price/performance ratio (low investment per lum)
- Large variety of accessories such as Mood filters and various attachments for glare reduction



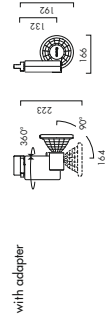


Bit BTC
≥ 75

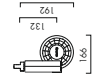
Mounting	with adapter
Lighting technology	HIT/G8.5 20W HIT/G8.5 35W HIT/G8.5 70W
Ballast	electronic ballast incl.
Type of reflector	SP MFL FL WFL



Spotlight



with adapter



electronic ballast incl.

20 W
35 W
70 W

Article numbers
02 BTC 812...
02 BTC 112...
02 BTC 212...



- Lighting technology HIT/G8.5
- for three-circuit track or surface mounting
- tilting and turning
- Connection data: electronic ballast, 220-240V, 20(23)W, 35(42)W, 70(80)W
- Weight 0,9 kg

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Reflector
HIT/G8.5



Lamp



SP			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HIT 610-... 17 HIT 610-SN-... 17 HIT 610-GD-... 17 HIT 610-RS-... 17 HIT 610-BD-...
MFL			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HIT 410-... 17 HIT 410-SN-... 17 HIT 410-GD-... 17 HIT 410-RS-... 17 HIT 410-BD-...
FL			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HIT 210-... 17 HIT 210-SN-... 17 HIT 210-GD-... 17 HIT 210-RS-... 17 HIT 210-BD-...
WFL			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HIT 110-... 17 HIT 110-SN-... 17 HIT 110-GD-... 17 HIT 110-RS-... 17 HIT 110-BD-...

HIT/G8.5 20/35/70 W

Information about lamps ≥ 388

As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Optional accessories

- Glare reduction asymmetric
- Glare reduction cylindrical
- Ceiling jack for adapter
- Recessing box for ceiling jack

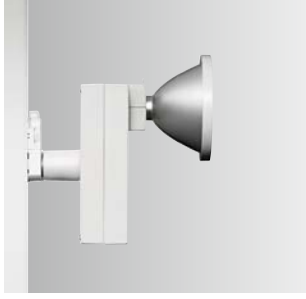
- 17 ZR 0001 black
- 17 ZR 0002 black
- 16 NK 70319002 white
- 16 NK 70319003 black
- 16 NK 70360002 white
- 16 NK 70360003 black

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Spotlights
Boxx

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



MODULO

ELECTRO

www.modulelectro.ru

The product philosophy of "the reflector as a luminaire" has been taken a step further with Boxx. The shape concentrates on essentials, while the function is based on high-quality lighting and electrical equipment. What is special about Boxx is the continuous adjustment of the focussing from narrow to wide beam carried out without any change of reflector which means that this is an extremely user-friendly design. Due to its flat shape this spotlight is suitable for areas with low ceilings.

- Geometrical, graphic design
- Zoom reflector with infinitely variable beam angle permits the adjustment of the light beam to every requirement with only one movement of the hand
- The flat structure of the spotlight is suitable particularly for low room heights – also in the tilted-out state



	Boxx LTL 78 80	Boxx LTL 78 81	Boxx LTW 78 82	Boxx LTW 78 83	Boxx LML 78 84	Boxx LGL 78 85	Boxx LNL 78 86
Mounting							
Lighting technology	with adapter OCHP12/GV6.35 max. 90W HIT/G12 35W HIT/G12 70W HIT/G12 100W HIT/G12 150W HIT/GU6.5 20W HST/GX12-1 150W HST/GX12-1 100W						
Ballast	electronic ballast incl. electronic transformer incl.						
Type of reflector	SP SP-WFL SP-WFL WFL-WWFL WWFL						

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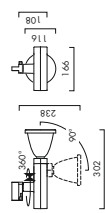


- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- focusable reflector
- tilting and turning
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W, 150(163)W
- Weight 1,6 kg



Spotlight

with adapter



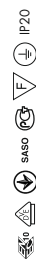
Article numbers
02 ILL 112...
02 ILL 212...
02 ILL 312...

electronic ballast
incl.

35 W
70 W
150 W

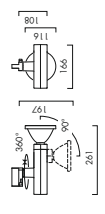


- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- Spar reflector
- tilting and turning
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W
- Weight 1,5 kg



Spotlight

with adapter



Article numbers
02 ILL 112...
02 ILL 212...

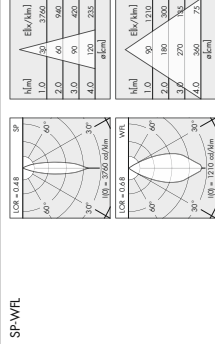
electronic ballast
incl.

35 W
70 W

MODUL ELECTRO

www.modulelectro.ru

+ Reflector
HIT/G12

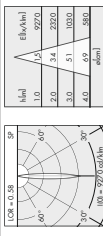


Article numbers
17 HU 310-...
17 HU 310-UV...
17 HU 310-SN...
17 HU 310-GD...
17 HU 310-RS...
17 HU 310-BD...

Safety glass incl.
UV filter incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

35 W
70 W
150 W

+ Lamp



Article numbers
17 HU 810-...
17 HU 810-UV...
17 HU 810-SN...
17 HU 810-GD...
17 HU 810-RS...
17 HU 810-BD...

Safety glass incl.
UV filter incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

35 W
70 W

+ Lamp

HIT/G12 35/70/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

+ Lamp

Information about lamps > 388
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Optional accessories

Filter
Honeycomb grid
Ceiling jack for adapter
Recessing box for ceiling jack

Coloured glass filter
blue
yellow
green
orange
red

Optional accessories

Coloured glass filter
blue
yellow
green
orange
red

17 FF 0673
17 FF 0671
17 FF 0674
17 FF 0670
17 FF 0672
17 WR 0001
16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

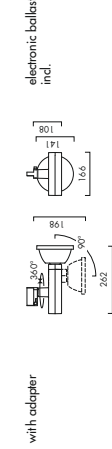
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver



- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- asymmetrical light distribution
- tilting and turning
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W, 100(109)W, 150(163)W
- Weight 1.5 kg

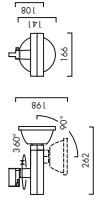


electronic ballast incl.

35 W
70 W
100 W
150 W

Spotlight

with adapter



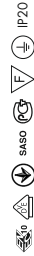
electronic ballast incl.

35 W
70 W
100 W
150 W

Article numbers
02 ILL 112...
02 ILL 212...
02 ILL 512...
02 ILL 312...

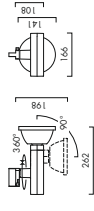
Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).

- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- asymmetrical light distribution
- tilting and turning
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W, 100(109)W, 150(163)W
- Weight 1.5 kg



Spotlight

with adapter



electronic ballast incl.

35 W
70 W
100 W
150 W

Article numbers
02 ILL 112...
02 ILL 212...
02 ILL 512...
02 ILL 312...

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).

MODULO ELECTRO

+ Reflector HIT/G12

VWFL

Safety glass incl. Mood-Filler Sun incl. Mood-Filler Gold incl.

17 HU 210-...
17 HU 210-5N-...
17 HU 210-6D-...



+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansorg recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansorg recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

Optional accessories

Filter

Coloured glass filter

17 FF 0683
17 FF 0684
17 FF 0680
17 FF 0682

Ceiling jack for adapter

Recessing box for ceiling jack

17 FF 0683
17 FF 0684
17 FF 0680
17 FF 0682

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Optional accessories

Filter

Coloured glass filter

17 FF 0683
17 FF 0684
17 FF 0680
17 FF 0682

Ceiling jack for adapter

Recessing box for ceiling jack

17 FF 0683
17 FF 0684
17 FF 0680
17 FF 0682

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Order information

Article numbers ending on ... are to be supplemented by the colour code. Colour code: ...401 = white / ...402 = antifractile / ...410 = silver

Article numbers ending on ... are to be supplemented by the colour code. Colour code: ...401 = white / ...402 = antifractile / ...410 = silver



- Lighting technology GFLP12/GY6.35
- for three-circuit track or surface mounting
- focusable reflector
- tilting and turning
- Connection data: electronic transformer, 230-240V, max. 90W
- Weight 1.0 kg

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Spotlight	with adapter	electronic transformer incl.	max. 90 W	Article numbers 02 LNL 010-...
<p>+ Reflector GFLP12/GY6.35</p>	<p>SP-WFL</p>			<p>17 HNJ 310-...</p>
<p>+ Lamp GFLP12 IRC/GY6.35 /50/65 W GFLP12/GY6.35 20/35/50/75/90 W</p>				
Optional accessories	<p>Filter</p> <p>UV filter Coloured glass filter</p> <p>Ceiling jack for adapter</p> <p>Recessing box for ceiling jack</p> <p>Safety glass</p>			<p>Information about lamps ↗ 392 Information about lamps ↗ 392</p> <p>17 ZS 0011 17 FF 0673 17 FF 0671 17 FF 0674 17 FF 0670 17 FF 0672 16 NK 70319002 16 NK 70319003 16 NK 70360002 16 NK 70360003 17 ZS 0010</p>
Order information	<p>Article numbers ending on ... are to be supplemented by the colour code. Colour code: ...401 = white / ...402 = anthracite / ...410 = silver</p>			

MODUL ELECTRO

www.modulelectro.ru

Spotlights Velo

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



MODUL ELECTRO

www.modulelectro.ru

Velo is a spotlight with a mono-casing into which the transformer has been integrated. An efficient temperature management system leads to a markedly longer service life. Equipped with a new adapter Velo is meant for use on tracks. Direct ceiling mounting is also possible in connection with a ceiling jack. Optionally Velo can be configured for mounting on luminaire carriers, as luminaires fitted on wall brackets or fitting on a suspended supply track. The toolfree replacement system for the reflector and the safety glass is a feature which indicates Velo's ease of handling. Anti-glare, mood filter or diffuser are meaningful accessories and supplement Velo's basic equipment.

- Compact, organic use of shapes
- Integrated temperature separation between reflector and ballast equipment in a very confined space- this results in a higher product life for all of the components and at the same time makes a compact structural shape possible
- Efficient reflectors and a high light output reduce the number of luminaires required



Spotlights Brick

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



MODULO

ELECTRO

www.modulelectro.ru

With pared-down shapes and functional flexibility, the Brick spotlight range permits a large number of design and lighting schemes. The spots can be turned through 360° and tilted 90° and hence it is possible to illuminate the whole room, the light reaching almost every position in it. Through the four different beam angles Brick can be recommended both for ambient and accentuation lighting purposes, in shops and stores as well as for transit zones in public buildings.

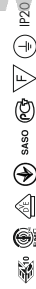
New: with LED

- Geometrical, pure design
- Qualitatively high-grade material version made of diecast aluminium permits optimum accuracy of fit
- The position of the tilting mechanism at only one point makes it possible to use it as a directional spotlight or as a down light
- Design networking with the product lines Lightstripe and Verio





- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- filling and lumina
- Connection data: electronic ballast, 220-240V, 35/42W, 70/80W, 100/109W, 150/163W, conventional ballast, 230V, 35/48W, 70/88W, 150/170W
- Weight 3.8 kg



Spotlight	with ceiling box	with adapter	electronic ballast incl.	conventional ballast incl.	electronic ballast incl.	conventional ballast incl.	Article numbers
			35 W 70 W 100 W 150 W	35 W 70 W 100 W 150 W	35 W 70 W 100 W 150 W	35 W 70 W 100 W 150 W	02.BTL.122... 02.BTL.222... 02.BTL.522... 02.BTL.322... 02.BTL.121... 02.BTL.221... 02.BTL.321... 02.BTL.112... 02.BTL.212... 02.BTL.512... 02.BTL.312... 02.BTL.111... 02.BTL.211... 02.BTL.311...

MODUL ELECTRO

www.modulelectro.ru

Optional accessories	Filter	Coloured glass filter	blue yellow green orange red	Article numbers
	Honeycomb grid			17.FE.0733 17.FE.0731 17.FE.0732 17.FE.0734 17.FE.0730 17.ZW.1060...

The use of the colour filters yellow, orange, red, blue, green is only permitted for the operation of the luminaire in the 35W and 70W version.
The use of the honeycomb grid is only permitted for the operation of the luminaire in the 35W and 70W versions.

Order information

Article numbers ending on "... are to be supplemented by the colour code.
Colour code: "...401 = white / "...402 = anthracite / "...410 = silver

Reflector HIT/G12	SSP	SP	MFL	WFL
	<p>Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.</p>	<p>Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.</p>	<p>Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.</p>	<p>Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.</p>

Information about lamps 7 388
As a matter of principle, Ansoorg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.



MODULO

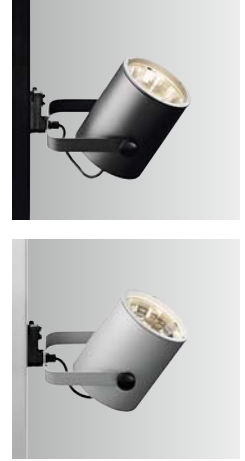
ELECTRO

www.modulelectro.ru

With a functional, minimalistic shape and great technical flexibility, Tecno surface-mounted spotlights are ideal for numerous lighting tasks. The use of low-loss electronic ballast technology and optimised reflector efficiency guarantee high economic efficiency. The Tecno range is supplemented by various accessories such as colour filters, honeycomb grids and barn doors.

LED under development

- Reduction to a basic geometrical shape
- Facilitate greater economic efficiency due to the use of low-loss electronic ballast equipment with optimised reflector efficiency
- Large variety of accessories permits different lighting scenarios





Tecno TTC
➔ 110

Mounting	with adapter with ceiling box
Lighting technology	HIT/G12 35 W HIT/G12 70 W HIT/G12 150 W HIT/G8.5 35 W HIT/G8.5 70 W
Ballast	electronic ballast incl. conventional ballast incl.
Type of reflector	SSP SP WFL WFL



Tecno TTS
➔ 112

Mounting	
Lighting technology	
Ballast	
Type of reflector	



Tecno TTL
➔ 113

Mounting	
Lighting technology	
Ballast	
Type of reflector	

MODUL

ELECTRO

www.modulelectro.ru



- Lighting technology HIT/G8.5
- for three-circuit track or surface mounting
- filling and turning
- Connection data: electronic ballast, 220-240V, 35/42W, 70/80W
- Weight 1,9 kg

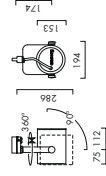
Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Order information

Article numbers ending on -... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antifractile / ...410 = silver

Spotlight with adapter electronic ballast 35 W 70 W



Reflector HIT/G8.5	SSP	SP	MFL	WFL
	 L _{0.8} = 0.81 L _{1.0} = 1.00 L _{1.5} = 1.50 L _{2.0} = 2.00 L _{3.0} = 3.00 L _{4.0} = 4.00 L _{5.0} = 5.00 L _{7.0} = 7.00 L _{10.0} = 10.00 L _{15.0} = 15.00 L _{20.0} = 20.00 L _{30.0} = 30.00 L _{40.0} = 40.00 L _{50.0} = 50.00 L _{70.0} = 70.00 L _{100.0} = 100.00 L _{150.0} = 150.00 L _{200.0} = 200.00 L _{300.0} = 300.00 L _{400.0} = 400.00 L _{500.0} = 500.00 L _{700.0} = 700.00 L _{1000.0} = 1000.00 L _{1500.0} = 1500.00 L _{2000.0} = 2000.00 L _{3000.0} = 3000.00 L _{4000.0} = 4000.00 L _{5000.0} = 5000.00 L _{7000.0} = 7000.00 L _{10000.0} = 10000.00 L _{15000.0} = 15000.00 L _{20000.0} = 20000.00 L _{30000.0} = 30000.00 L _{40000.0} = 40000.00 L _{50000.0} = 50000.00 L _{70000.0} = 70000.00 L _{100000.0} = 100000.00 L _{150000.0} = 150000.00 L _{200000.0} = 200000.00 L _{300000.0} = 300000.00 L _{400000.0} = 400000.00 L _{500000.0} = 500000.00 L _{700000.0} = 700000.00 L _{1000000.0} = 1000000.00 L _{1500000.0} = 1500000.00 L _{2000000.0} = 2000000.00 L _{3000000.0} = 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Spotlights
Cardo

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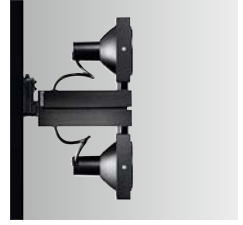
MODULO

ELECTRO

www.modulelectro.ru

The Cardo double spotlight was developed for use fitted in power tracks or mounted on the ceiling and as a pendant luminaire. The articulation of the gimble-mounted light heads enables light to be distributed over the room in any direction. The orthogonal alignment of the luminaires produces the appropriate, calm ceiling pattern. The Cardo product series is of modular design and various lighting techniques can therefore be combined without any problems.

- Technical design
- Gimbal-mounting permits the directing of the light in any direction desired
- Two lighting heads in one product and the possibility of combining various lighting technologies reduce the number of luminaires
- Housing position permits stringent ceiling design





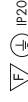
Cardo CPK
7 117

Mounting	with adapter with ceiling box
Lighting technology	QTI4/G8.5 max. 60 W HIT/G8.5 35 W HIT/G8.5 70 W
Type of reflector	SSP SP MFL FL

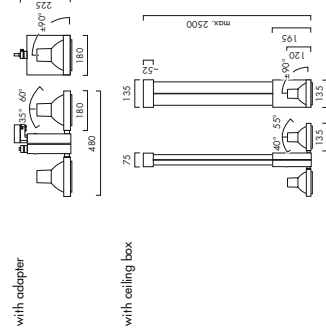


- Lighting technology HIT/G8.5, QTI 4/G8.5
- for three-circuit track (spotlight) or surface mounting
- Design as a spotlight or suspended luminaire
- two spotlights on gimbal mount
- Connection cable: HIT: electronic ballast, 220-240V, 35(42)W, 70(80)W; QTI 4: electronic transformer, 230-240V, max. 60W
- Spotlight weight approx. 3.0 kg; suspended luminaire approx. 4.4 kg

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Spotlight



Article numbers	QTI4 / QTI4	07 CPK 020...
	HIT 35 W / HIT 35 W	07 CPK 021...
	HIT 70 W / HIT 70 W	07 CPK 022...
	HIT 35 W / HIT 35 W	07 CPK 121...
	HIT 70 W / HIT 70 W	07 CPK 122...
	HIT 35 W / HIT 35 W	07 CPK 221...
	HIT 70 W / HIT 70 W	07 CPK 222...

MODUL ELECTRO

www.modulelectro.ru

+ Reflector
HIT/G8.5

SSP			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HB 810-... 17 HB 810-SN-... 17 HB 810-GD-... 17 HB 810-RS-... 17 HB 810-BD-...
SP			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HB 610-... 17 HB 610-SN-... 17 HB 610-GD-... 17 HB 610-RS-... 17 HB 610-BD-...
MFL			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HB 410-... 17 HB 410-SN-... 17 HB 410-GD-... 17 HB 410-RS-... 17 HB 410-BD-...
FL			Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	17 HB 210-... 17 HB 210-SN-... 17 HB 210-GD-... 17 HB 210-RS-... 17 HB 210-BD-...

MODUL

ELECTRO

www.modulelectro.ru

			Safety glass incl.	Article numbers
+ Reflector QT14/G8.5	SSP			17 HB 810-...
	SP			17 HB 610-... 17 HB 610-SN-...
	MFL			17 HB 410-...
	FL			17 HB 210-...
+ Lamp	HIT/G8.5 35/70 W QT14/G8.5 45/60 W	Information about lamps: 71 388 Information about lamps: 71 392 As a matter of principle, Ansong recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.		
	Optional accessories	Glare reduction cylindrical Filter Honeycomb grid Ceiling jack for adaptor Recessing box for ceiling jack	UV filter Coloured glass filter Coloured glass filter Honeycomb grid Ceiling jack for adaptor Recessing box for ceiling jack	17 AS 2000 17 GL 1010 17 GL 1021 17 GL 1023 17 GL 1022 17 GL 1024 17 GL 1020 17 WR 0003 16 NK 70319002 16 NK 70319003 16 NK 70360002 16 NK 70360003
Order information	Article numbers ending on ... are to be supplemented by the colour code. Colour code: ...401 = white / ...402 = anthracite / ...410 = silver			

Spotlights Stage

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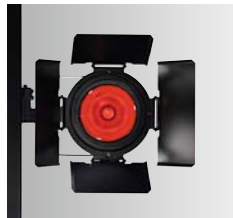


MODUL ELECTRO

www.modulelectro.ru

Stage is a spotlight series presenting modern high-quality lighting technology in a lighting fitting of theatre-style design. Standard coloured sheeting of the type used in stage equipment is placed in the filter holder. Additional accessories produce further dramatic lighting effects. With innovative lamp equipment and optimised replaceable reflectors, Stage is suitable for the accentuation of architectural details and the highlighting of objects in shopping areas.

- Spotlights of theatre stage-type design
- Accessories for dramaturgical lighting effects at the point of sale
- For accent lighting and scene-setting for special areas





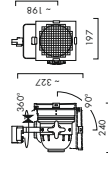
Stage STH
≥ 123

Mounting	with adapter
Lighting technology	HIT/G12 3.5W HIT/G12 70W
Ballast	conventional ballast incl.
Type of reflector	SSP SP MFL WFL



Spotlight

with adapter



- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- tilting and turning
- Connection data: conventional ballast, 230V, 35/48W, 70/88W
- Weight 3.4 kg

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Article numbers
02 STH 111-002
02 STH 211-002

35 W
70 W

conventional ballast incl.

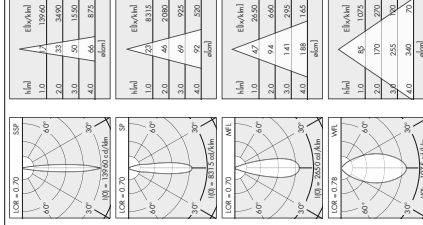
+ Reflector
HIT/G12

17 HIA 810-ST002

17 HIA 610-ST002

17 HIA 410-ST002

17 HIA 210-ST002



SSP

SP

MFL

WFL

+ Lamp

HIT/G12 35/70W

Information about lamps ≥ 388

Optional accessories

Ceiling jack for adapter

Recessing box for ceiling jack

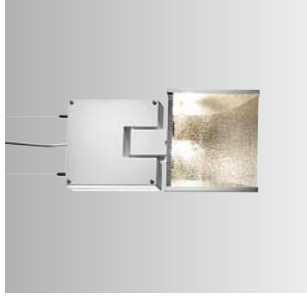
16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

white
black
white
black

Order information

The luminaire is only available in the 'black' version.

MODULO ELECTRO
www.modulelectro.ru

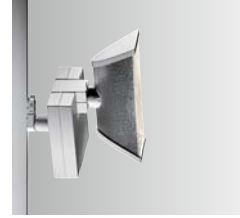


MODULO ELECTRO

www.modulelectro.ru

Silla is an efficient lighting solution for the food market. Essential components are the three different types of reflectors. A double directional washer for vertical illumination of both sides of shelf systems arranged opposite each other and an asymmetrical wall washer for illuminating the surround area as well as a washer for partial accentuation of, for example, displays in the upper wall area. The reflector material (MIRO) used has, as compared with conventional material, a 10% higher degree of reflection and hence large distances between luminaires of up to 3.80 meter can be achieved. Consequently, Silla stands for a highly economical and efficient lighting system.

- Technical design
- One housing — three reflector types — three applications
- The reflector is the shape-determining element
- Economical lighting solutions for the food area
- Homogeneous, vertical shelf lighting and non-glare aisle illumination
- Efficient reflectors permit large distances between luminaires and reduce the number of luminaires
- Product family with a large variety of mounting possibilities
- Design networking with Boxx and Sino



Spotlights Compendium Silla

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	Silla STL ➤ 128	Silla STL ➤ 129	Silla STL ➤ 130	Silla SPL ➤ 131	Silla SPL ➤ 132	Silla SPL ➤ 133	Silla SEL ➤ 134	Silla SWL ➤ 135
Mounting		with adapter for recessed mounting for suspended mounting for wall mounting						
Lighting technology		HIT/G12 35 W HIT/G12 70 W HIT/G12 100 W HIT/G12 150 W						
Ballast		electronic ballast incl.						
Type of reflector		DDF PSW AF						

MODUL
ELECTRO
www.modulelectro.ru



- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- Spotlight as two-directional washer with symmetrical light distribution
- Connection data: electronic ballast, 220-240V/70(80)W, 100(109)W, 150(163)W
- Weight 1.95 kg (70W), 2.25 kg (100/150W)



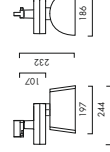
- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- Spotlight as wall washer with asymmetrical light distribution
- Connection data: electronic ballast, 220-240V/70(80)W, 100(109)W, 150(163)W
- Weight 1.75 kg (70W), 2.25 kg (100/150W)

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Spotlight

with adapter



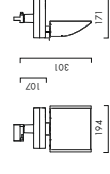
electronic ballast incl.

70 W
100 W
150 W

Article numbers
02 STL 212...
02 STL 512...
02 STL 312...

Spotlight

with adapter



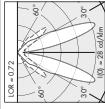
electronic ballast incl.

70 W
100 W
150 W

Article numbers
02 STL 212...
02 STL 512...
02 STL 312...

+ Reflector HIT/G12

DDF

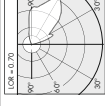


Safety glass incl.

17 HR 510...

+ Reflector HIT/G12

AF



Safety glass incl.

17 HR 010...

+ Lamp

HIT/G12 70/100/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

+ Lamp

HIT/G12 70/100/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.

Optional accessories

Ceiling jack for adapter

white
black

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Optional accessories

Ceiling jack for adapter

white
black

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

MODULO ELECTRO

www.modulelectro.ru

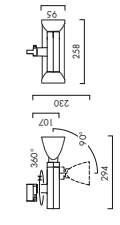


- Lighting technology HIT/G12
- for three-circuit track or surface mounting
- Spotlight as directional washer with elliptical beam shape
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W, (100)109W
- Weight 1.85 kg (35/70W), 2.25 kg (100W)

Surface mounted by means of ceiling jack for adapter. Recessed mounting by means of ceiling jack for adapter in combination with recessing box (see accessories).



Spotlight with adapter



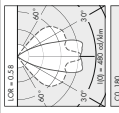
Article numbers
02 STL 112...
02 STL 212...
02 STL 512...

35 W
70 W
100 W

electronic ballast incl.

+ Reflector HIT/G12

P5W



CO, 180	Beam	Beam	Beam
0.0	45	45	45
2.0	135	135	135
4.0	225	225	225
6.0	315	315	315
8.0	405	405	405
10.0	495	495	495
12.0	585	585	585
14.0	675	675	675
16.0	765	765	765
18.0	855	855	855
20.0	945	945	945
22.0	1035	1035	1035
24.0	1125	1125	1125
26.0	1215	1215	1215
28.0	1305	1305	1305
30.0	1395	1395	1395

Safety glass incl.

17 HR 710...

+ Lamp

HIT/G12 35/70/100 W

Information about lamps: > 388

Ceiling jack for adapter
Recessing box for ceiling jack

white
black
white
black

16 NK 70319002
16 NK 70319003
16 NK 70360002
16 NK 70360003

Order information

Article numbers ending on ..., are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

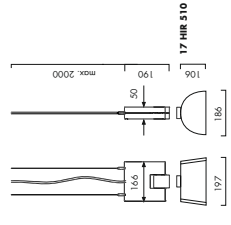


- Lighting technology HIT/G12
- for surface mounting
- Suspended luminaire with symmetrical light distribution
- Connection data: electronic ballast, 220-240V, 70(80)W, 100(109)W, 150(163)W
- Weight 1.95 kg (70W), 2.45 kg (100/150W)

The supply lead and the double-wire suspension are connected permanently to the housing (can be shortened on site).



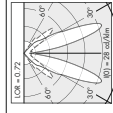
for suspended mounting
steel cable 5m incl.



electronic ballast incl.

70 W
100 W
150 W

Article numbers
07 SR 222...
07 SR 522...
07 SR 322...



CO, 180	Beam	Beam	Beam
0.0	45	45	45
2.0	135	135	135
4.0	225	225	225
6.0	315	315	315
8.0	405	405	405
10.0	495	495	495
12.0	585	585	585
14.0	675	675	675
16.0	765	765	765
18.0	855	855	855
20.0	945	945	945
22.0	1035	1035	1035
24.0	1125	1125	1125
26.0	1215	1215	1215
28.0	1305	1305	1305
30.0	1395	1395	1395

Safety glass incl.

17 HR 510...

HIT/G12 70/100/150 W

Information about lamps: > 388
Note for 150 W lamps, only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.

Ceiling canopy

l = 165mm, w = 50mm, h = 35mm

17 DS 0500...

Order information

Article numbers ending on ..., are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver
For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) and -410 (silver) the cable colour is black.

MODULO ELECTRO

www.modulelectro.ru



- Lighting technology HIT/G12
- for surface mounting
- Suspended luminaire with asymmetrical light distribution
- Connection data: electronic ballast: 220-240V, 70(80)W, 100(109)W, 150(163)W
- Weight 1,75 kg (70W), 2,25 kg (100/150W)

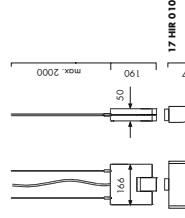


- Lighting technology HIT/G12
- for surface mounting
- Suspended luminaire with elliptical beam shape
- Connection data: electronic ballast: 220-240V, 3,5(4,2)W, 70(80)W, 100(109)W
- Weight 1,85 kg (35/70W), 2,25 kg (100W)



Control gear housing

for suspended mounting
steel cable 5m incl.



Article numbers
07 SR 222...
07 SR 322...
07 SR 322...

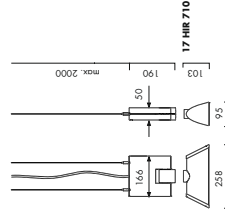
70 W
100 W
150 W

electronic ballast
incl.



Control gear housing

for suspended mounting
steel cable 5m incl.



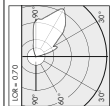
Article numbers
07 SR 122...
07 SR 222...
07 SR 322...

35 W
70 W
100 W

electronic ballast
incl.

+ Reflector
HIT/G12

AF



lx/2m	lx/1m
0,1	0,2
0,2	0,4
0,4	0,8
0,8	1,6
1,6	3,2
3,2	6,4
6,4	12,8
12,8	25,6
25,6	51,2
51,2	102,4
102,4	204,8
204,8	409,6
409,6	819,2
819,2	1638,4
1638,4	3276,8
3276,8	6553,6
6553,6	13107,2
13107,2	26214,4
26214,4	52428,8
52428,8	104857,6
104857,6	209715,2
209715,2	419430,4
419430,4	838860,8
838860,8	1677721,6
1677721,6	3355443,2
3355443,2	6710886,4
6710886,4	13421772,8
13421772,8	26843545,6
26843545,6	53687091,2
53687091,2	107374182,4
107374182,4	214748364,8
214748364,8	429496729,6
429496729,6	858993459,2
858993459,2	1717986918,4
1717986918,4	3435973836,8
3435973836,8	6871947673,6
6871947673,6	13743895347,2
13743895347,2	27487790694,4
27487790694,4	54975581388,8
54975581388,8	109951162777,6
109951162777,6	219902325555,2
219902325555,2	439804651110,4
439804651110,4	879609302220,8
879609302220,8	1759218604441,6
1759218604441,6	3518437208883,2
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- Lighting technology HIT/G12
- recessed luminaire with integral reflector
- Spotlight as two-directional washer with symmetrical light distribution
- Connection data: electronic ballast, 220-240V, 33(42)W, 70(80)W, 100(109)W, 150(163)W; conventional ballast, 33(48)W, 70(88)W, 150(170)W
- Weight 2.0 kg

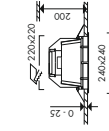
Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



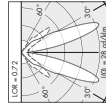
Recessed luminaire with integral reflector

Safety glass incl.

35/70/100/
150 W



E _{lm} /lmh	
0.1	0.15
1.5	21
2.0	27
2.5	33
3.0	40
3.5	47
4.0	54



HIT/G12

Article numbers
03 SEL 6XX...



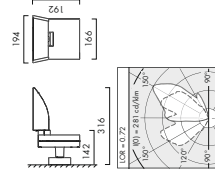
- Lighting technology HIT/G12
- for wall mounting
- Uplight with asymmetrical light distribution
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W, 100(109)W, 150(163)W
- Weight 1.75 kg (35-100W); 2.25 kg (150W)

Connection of light fitting to mains by means of 3-pole terminal block.

Wall-mounted luminaire with integral reflector

electronic ballast incl.

35 W
70 W
100 W
150 W



HIT/G12

Article numbers
01 SWL 1102...
01 SWL 2102...
01 SWL 5102...
01 SWL 3102...

MODUL ELECTRO

www.modulelectro.ru

+ Ballast

Electronic ballast
HIT/HITDE

220-240V
50/60Hz

35 W
70 W
100 W
150 W

Article numbers
27 VTE 1121
27 VTE 1321
27 VT 1521-5F00
27 VT 1621

Conventional ballast
HIT/HITDE

230V 50Hz

35 W
70 W
100 W
150 W

Article numbers
27 VTE 1161
27 VTE 1361
27 VT 1164
27 VT 1364
27 VT 1664

+ Lamp

HIT/G12 35/70/100/150W

Information about lamps: > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps: > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Recessed spotlights Advantages and Features

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



Bolt 1141

- Unobtrusive design
- Rationally symmetrical wallwasher with a low recessing depth creating an impression of being flush with the ceiling
- Efficient reflectors permit large distances between luminaires and reduce the number of luminaires
- The reflector equipment permits homogeneous illumination flush with the ceiling as far as the floor. Due to the secondary reflector, additional illumination of the top edges of the walls is not necessary



Punto 1147 LED under development

- Classic design
- Large tilting angle of between 50° and 70° permits ceiling-high lighting with optimum luminous efficiency
- Facelift: tool-free recessing mechanism saves mounting time and reduces mounting costs
- Extension of the large line of products by the addition of the HIT G8.5 lighting technology with a very high efficiency of up to 85% (LOR)



Cardo 1159 LED under development

- Classic, gimbal-mounted design
- The design networking with the series Brick, Light-stripe and Cardo Systems favours the creation of a harmonious ceiling design
- Due to mounting on gimbals, the light can be directed in any direction desired
- Extension of the large line of products by the addition of the HIT G8.5 lighting equipment with a very high efficiency of up to 85% (LOR)

MODULELECTRO
www.modulelectro.ru

Recessed spotlights Bola

1
2
3
4
5
6
7
8





MODUL ELECTRO

www.modulelectro.ru

Wallwashers underline the architecture, provide spatial orientation and define proportions. With its special reflector technology, Bola succeeds in achieving a wide and uniform light distribution on the walls up to the ceiling. Moreover, this wallwasher convinces with its low recessing depth of only 12 to 14.5 centimetres.

- Unobtrusive design
- Rotationally symmetrical wallwasher with a low recessing depth, creating an impression of being flush with the ceiling
- Efficient reflectors permit large distances between luminaires and reduce the number of luminaires
- The reflector equipment permits homogeneous illumination flush with the ceiling as far as the floor. Due to the secondary reflector, additional illumination of the top edges of the walls is not necessary



	Bola SBI ≥ 143
	Bola SBS ≥ 144

Mounting dimensions

d = 185mm
HIT/G12 35W
HIT/G12 70W
HIT/G12 100W
HIT/G12 150W
HIT/PG12-1 100W

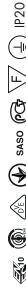
Lighting technology

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•

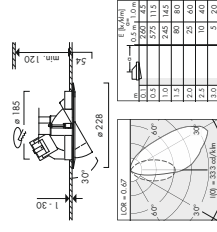


- Lighting technology HIT/G12
- for recessed mounting
- Wall washer with tilt angle to allow spotlighting to directly below the ceiling
- asymmetrical light distribution
- Connection data: electronic ballast, 35(42)/70(80)W, 100(109)W, 150(163)W; conventional ballast, 35(48)W, 70(88)W, 150(170)W
- Weight 1.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed spotlight with integral reflector



Safety glass incl.	35/70/100 150 W
Mood-Filter Sun incl.	35/70 W
Mood-Filter Gold incl.	35/70 W

Article numbers	04 SBI 6XX-...
	04 SBI 6XX-SN-...
	04 SBI 6XX-GD-...

MODUL ELECTRO

www.modulelectro.ru

+ Ballast

+ Lamp

Electronic ballast HIT/HIT-DE	220-240V, 50/60Hz	35 W 70 W 100 W 150 W	27 VE 1121 27 VE 1321 27 VT 1521-5F00 27 VT 1621
Conventional ballast HIT/HIT-DE	230V, 50Hz	35 W 70 W 150 W	27 VE 1161 27 VE 1361 27 VT 1164 27 VT 1364
HIT/G12 35/70/100/150 W	240V, 50Hz	35 W 70 W 150 W	27 VT 1664 27 VT 1664

Information about lamps ≥ 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

Recessed spotlights Bola SBS

- 1
- 2
- 3
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- 6
- 7
- 8

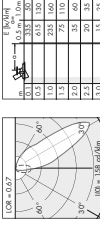
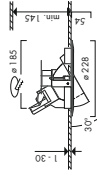


- Lighting technology HST/PG12-1
- for recessed mounting
- Wall washer with tilt angle to allow spotlighting to directly below ceiling
- asymmetrical light distribution
- Connection data: conventional ballast, 1.00(11.6)V
- Weight 1.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 green.



Recessed spotlight with integral reflector



Beam angle	Beam diameter at 1.0 m
60°	185
30°	92.5

Article numbers
04 SBS 2511...

* Ballast	Safety glass incl.	100 W	Article numbers
Conventional ballast HST (SDWT)			04 SBS 2511...
			27 VT 2511
			27 VT 2514

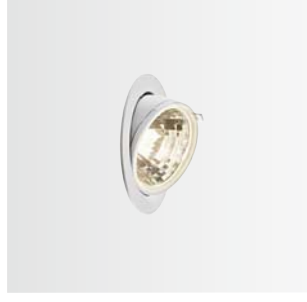
* Lamp	Information about lamps > 389
HST/PG12-1 100 W	Information about lamps > 389

Order information
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

MODULO ELECTRO

www.modulelectro.ru

Recessed spotlights Punta



MODULO ELECTRO

www.modulelectro.ru

Punta- the classic among the recessed spotlights - convinces with its special abilities. The reflector housing is located flexibly on a running ring and, in that way, ensures optimum mobility. Adjustment, which is easy to carry out, does not require a locking mechanism. The newly developed tool-free recessing mechanism reduces the mounting costs. The large tilt-out angle of between 50° and 70° guarantees maximum lighting efficiency. With the extension of this large series by the addition of the HIT/G8.5 lighting equipment a very high efficiency of up to 85 % is achieved. Punta stands for versatile use, from the pinpointed effect high up on the wall as far as the illumination of peripheral areas.

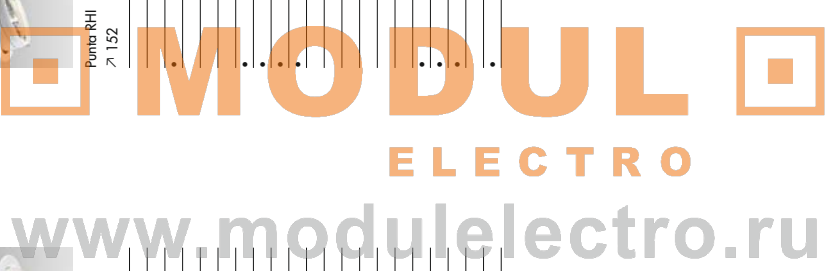
- Classic design
- Large tilting angle of between 50° and 70° permits ceiling-high lighting with optimum luminous efficiency
- Facelift: tool-free recessing mechanism saves mounting time and reduces mounting costs
- Extension of the large line of products by the addition of the HIT/G8.5 lighting technology with a very high efficiency of up to 85 % (LOR)

LED under development



Recessed spotlights Compendium Punta

	Punta RIC ↗ 150	Punta RHC ↗ 151	Punta RHI ↗ 152	Punta RHT ↗ 154	Punta RNS ↗ 155	Punta NIKK ↗ 156
Mounting dimensions	d = 95mm d = 130mm d = 185mm					
Lighting technology	GR-CBC51 IRC/GU5.5 max. 50 W GTH4/G8.5 max. 60 W HIT/G12 35 W HIT/G12 70 W HIT/G12 100 W HIT/G12 150 W HIT/G8.5 20 W HIT/G8.5 35 W HIT/G8.5 70 W HST/GX12-1 50 W HST/GX12-1 100 W					
Type of reflector	SSP SP WFL FL WFL					



Recessed spotlights Punta RLC

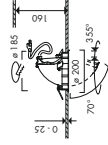


- Lighting technology HIT/G8.5
- For recessed mounting
- Recessed spotlight
- Tilting and turning
- Connection data: electronic ballast, 20(24)W, 70(80)W
- Weight 1.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed spotlight



20/35/70 W

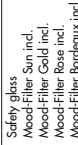
Article numbers
04 RLC 6XX...

+ Reflector HIT/G8.5

SSP

LOK = 0.81

100 = 1000 cd/klm

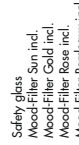


- 17 HHS 810-...
- 17 HHS 810-SN-...
- 17 HHS 810-GD-...
- 17 HFS 810-RS-...
- 17 HFS 810-BD-...

SP

LOK = 0.85

100 = 1000 cd/klm

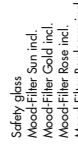


- 17 HHS 610-...
- 17 HHS 610-SN-...
- 17 HHS 610-GD-...
- 17 HHS 610-RS-...
- 17 HHS 610-BD-...

MFL

LOK = 0.73

100 = 1000 cd/klm

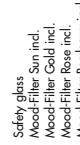


- 17 HHS 410-...
- 17 HHS 410-SN-...
- 17 HHS 410-GD-...
- 17 HHS 410-RS-...
- 17 HHS 410-BD-...

WFL

LOK = 0.81

100 = 1000 cd/klm



- 17 HHS 210-...
- 17 HHS 210-SN-...
- 17 HHS 210-GD-...
- 17 HHS 210-RS-...
- 17 HHS 210-BD-...

+ Ballast

Electronic ballast
HIT/HIT-DE

220-240V
50/60Hz

20 W
35 W
70 W

27 VT 1051-5F00
27 VTE 1121
27 VTE 1321

+ Lamp

HIT/G8.5 20/35/70 W

Information about lamps > 388

As a matter of principle, Ansoerg recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

Optional accessories

Filter
Honeycomb grid

17 GL 1002
17 ZW 1070-...

Order information

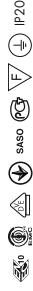
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

Recessed spotlights Punta RHC

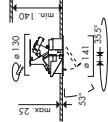


- Lighting technology HIT/G8.5
- For recessed mounting
- Recessed spotlight
- Tilting and turning
- Connection data: electronic ballast, 20(24)W, 35(42)W, 70(80)W
- Weight 0.8 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed spotlight



20/35/70 W

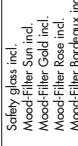
Article numbers
04 RHC 6XX...

+ Reflector HIT/G8.5

SP

LOK = 0.69

100 = 380 cd/klm

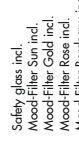


- 17 HF 610-01-...
- 17 HF 610-01-SN-...
- 17 HF 610-01-GD-...
- 17 HF 610-01-RS-...
- 17 HF 610-01-BD-...

MFL

LOK = 0.69

100 = 310 cd/klm

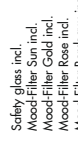


- 17 HF 410-01-...
- 17 HF 410-01-SN-...
- 17 HF 410-01-GD-...
- 17 HF 410-01-RS-...
- 17 HF 410-01-BD-...

FL

LOK = 0.64

100 = 310 cd/klm



- 17 HF 210-01-...
- 17 HF 210-01-SN-...
- 17 HF 210-01-GD-...
- 17 HF 210-01-RS-...
- 17 HF 210-01-BD-...

+ Ballast

Electronic ballast
HIT/HIT-DE

220-240V
50/60Hz

20 W
35 W
70 W

27 VT 051-5F00
27 VT 1121
27 VE 1321

+ Lamp

HIT/G8.5 20/35/70 W

Information about lamps > 388

As a matter of principle, Ansoerg recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

Optional accessories

Filter
UV filter

17 ZS 2089-...

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

Recessed spotlights Punta RHT

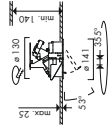


- Lighting technology QT14/G8.5
- for recessed mounting
- Recessed spotlight
- tilting and turning
- Connection data: electronic transformer, 12V, max. 60W
- Weight 0.8 kg

Connection of light fitting to ballast by means of 2-pole terminal block.



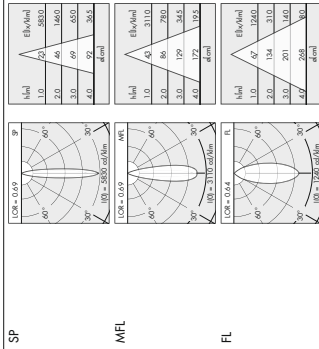
Recessed spotlight



Article numbers
04 RHT 0XX...

max. 60 W

+ Reflector
QT14/G8.5



Safety glass incl.

17 HIF 610-01...

Safety glass incl.

17 HIF 410-01...

Safety glass incl.

17 HIF 210-01...

+ Ballast

Electronic low voltage transformer
GHP2/G8-CBC/GT14

220-240V/12V,
50/60Hz

15 NE 3018

+ Lamp

QT14/G8.5 45/60 W

Information about lamps ↗ 392

Optional accessories

Filter

17 ZS 2089...

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

Recessed spotlights Punta RNS

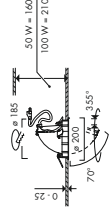


- Lighting technology HST/GX12-1
- for recessed mounting
- Recessed spotlight
- tilting and turning
- Connection data: electronic ballast, 50/60W, 100(108)W
- Weight 2.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 green.



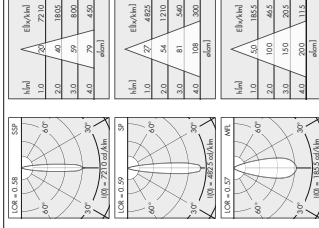
Recessed spotlight



Article numbers
04 RNS 7XX...

50/100 W

+ Reflector
HST/GX12-1



SSP

SP

MFL

WFL

17 HSE 810...

17 HSE 610...

17 HSE 410...

17 HSE 210...

27 VT 2221
27 VT 2521

50 W
100 W

220-240V,
50/60Hz

Information about lamps ↗ 389

+ Lamp

HST/GX12-1 50/100 W

Information about lamps ↗ 389

Optional accessories

Honeycomb grid

17 ZW 1070...

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

www.modulelectro.ru

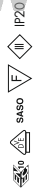
MODULO ELECTRO

Recessed spotlights Punta NRK

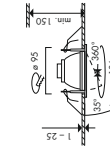


- Lighting technology: QR-GBC51/GUS3
- for recessed mounting
- Recessed spotlight
- tilting and turning
- Connection data: electronic transformer, 12V, max. 50W
- Weight: 0.2 kg

Connection of light fitting to ballast by means of 2-pole terminal block.



Recessed spotlight



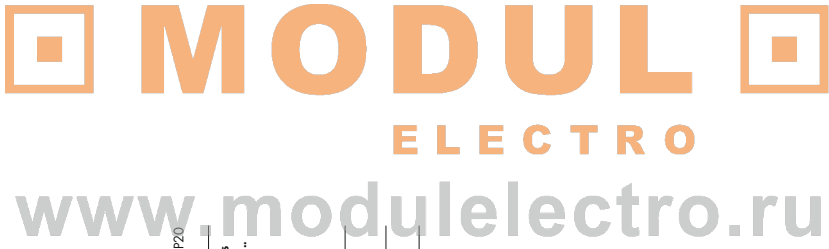
Article numbers
04 NRK 2100-...

max. 50 W

+ Ballast	Electronic low voltage transformer GUS3/GBC-GBC/GT1.4	230-240V/12V, 50/60Hz	20-105 VA	15 NE 3018
+ Lamp	QR-GBC51 IRC/GUS3 20/35/50 W	Information about lamps ↗ 392		

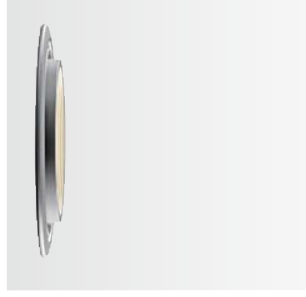
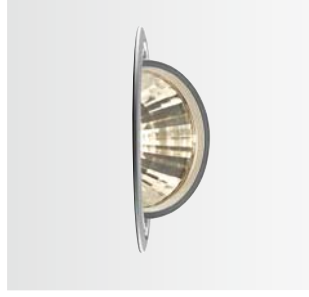
Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...001 = white RAL9010 / ...010 = silver RAL9006



Recessed spotlights Cardo

1
2
3
4
5
6
7
8



MODUL ELECTRO

www.modulelectro.ru

The Cardo product family comprises circular gimbal-mounted, recessed spotlights. At the same time, standardisation of the diameters (130 mm and 185 mm) not only give the ceiling a calm, harmonious appearance but also permit combination with luminaires from any of our other product series. For complex and economical lighting schemes, recessed spotlights, wallwashers and downlights are therefore available.

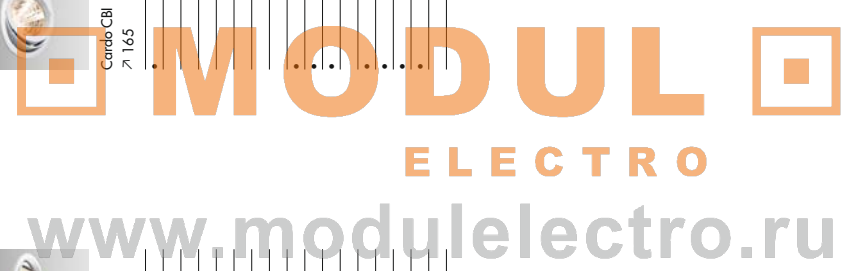
- Classic, gimbal-mounted design
- The design networking with the series Brick, Light stripe and Cardo Systems favours the creation of a harmonious ceiling design
- Due to mounting on gimbals, the light can be directed in any direction desired
- Extension of the large line of products by the addition of the HIT G8.5 lighting equipment with a very high efficiency of up to 85 % (LOR)



LED under development

Recessed spotlights Compendium Cardo

	Cardo CRI ≈ 162	Cardo CRC ≈ 164	Cardo CBI ≈ 165	Cardo CBN ≈ 167
Mounting dimensions	d = 130mm d = 185mm			
Lighting technology	GH/PI2/GY6.35 max. 90 W HI7/G12 35 W HI7/G12 70 W HI7/G12 100 W HI7/G12 150 W HI7/G8.5 20 W HI7/G8.5 3.5 W HI7/G8.5 70 W			
Type of reflector	SSP SP MFL FL WFL			

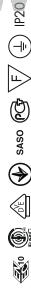


Recessed spotlights Cardo CRI

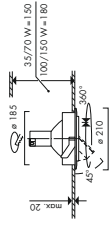


- Lighting technology HIT/G12
- for recessed mounting
- Recessed spotlight, gimbal mounted
- tilting and turning
- Connection, data: electronic ballast, 35(42)W, 70(80)W, 100(109)W, 150(163)W;
- conventional ballast, 35(48)W, 70(88)W, 150(170)W
- Weight 1,2 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3, red.



Recessed spotlight



Reflector HIT/G12	SSP	SP	MFL	WFL	Electronic ballast HIT/HIDE	Conventional ballast HIT/HIDE	HIT/G12 35/70/100/150W
<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Safety glass incl. • Mood-Filter Sun incl. • Mood-Filter Gold incl. • Mood-Filter Rose incl. • Mood-Filter Bordeaux incl. 	<ul style="list-style-type: none"> • Information about lamps > 388 • As a matter of principle, Ansoorg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.
<ul style="list-style-type: none"> • Article numbers • 04 CR1 6XX... • 04 CR1 3XX... 	<ul style="list-style-type: none"> • Article numbers • 17 HHC 810-... • 17 HHC 810-SN-... • 17 HHC 810-GD-... • 17 HHC 810-RS-... • 17 HHC 810-BD-... 	<ul style="list-style-type: none"> • Article numbers • 17 HHC 610-... • 17 HHC 610-SN-... • 17 HHC 610-GD-... • 17 HHC 610-RS-... • 17 HHC 610-BD-... 	<ul style="list-style-type: none"> • Article numbers • 17 HHC 410-... • 17 HHC 410-SN-... • 17 HHC 410-GD-... • 17 HHC 410-RS-... • 17 HHC 410-BD-... 	<ul style="list-style-type: none"> • Article numbers • 17 HHC 210-... • 17 HHC 210-SN-... • 17 HHC 210-GD-... • 17 HHC 210-RS-... • 17 HHC 210-BD-... 	<ul style="list-style-type: none"> • Article numbers • 27 VTE 1121 • 27 VTE 1321 • 27 VT 1521-5F00 • 27 VT 1621 • 27 VTE 1161 • 27 VTE 1561 • 27 VT 1661 • 27 VT 1164 • 27 VT 1364 • 27 VT 1664 	<ul style="list-style-type: none"> • Article numbers • 27 VTE 1121 • 27 VTE 1321 • 27 VT 1521-5F00 • 27 VT 1621 • 27 VTE 1161 • 27 VTE 1561 • 27 VT 1661 • 27 VT 1164 • 27 VT 1364 • 27 VT 1664 	<ul style="list-style-type: none"> • Article numbers • 04 CR1 6XX... • 04 CR1 3XX...
<ul style="list-style-type: none"> • Power • 35/70W • 100/150W 	<ul style="list-style-type: none"> • Power • 35/70W • 100/150W 	<ul style="list-style-type: none"> • Power • 35/70W • 100/150W 	<ul style="list-style-type: none"> • Power • 35/70W • 100/150W 	<ul style="list-style-type: none"> • Power • 35/70W • 100/150W 	<ul style="list-style-type: none"> • Power • 35W • 70W • 100W • 150W 	<ul style="list-style-type: none"> • Power • 35W • 70W • 100W • 150W 	<ul style="list-style-type: none"> • Power • 35/70W • 100/150W
<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180 	<ul style="list-style-type: none"> • Beam diameter • 100/150 W = 150 • 100/150 W = 180
<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930 	<ul style="list-style-type: none"> • Colour temperature • 930
<ul style="list-style-type: none"> • Beam angle • 30° • 37° • 42° • 47° • 52° • 57° • 62° • 67° • 72° • 77° • 82° • 87° • 92° • 97° • 102° • 107° • 112° • 117° • 122° • 127° • 132° • 137° • 142° • 147° • 152° • 157° • 162° • 167° • 172° • 177° • 182° • 187° • 192° • 197° • 202° • 207° • 212° • 217° • 222° • 227° • 232° • 237° • 242° • 247° • 252° • 257° • 262° • 267° • 272° • 277° • 282° • 287° • 292° • 297° • 302° • 307° • 312° • 317° • 322° • 327° • 332° • 337° • 342° • 347° • 352° • 357° • 362° • 367° • 372° • 377° • 382° • 387° • 392° • 397° • 402° • 407° • 412° • 417° • 422° • 427° • 432° • 437° • 442° • 447° • 452° • 457° • 462° • 467° • 472° • 477° • 482° • 487° • 492° • 497° • 502° • 507° • 512° • 517° • 522° • 527° • 532° • 537° • 542° • 547° • 552° • 557° • 562° • 567° • 572° • 577° • 582° • 587° • 592° • 597° • 602° • 607° • 612° • 617° • 622° • 627° • 632° • 637° • 642° • 647° • 652° • 657° • 662° • 667° • 672° • 677° • 682° • 687° • 692° • 697° • 702° • 707° • 712° • 717° • 722° • 727° • 732° • 737° • 742° • 747° • 752° • 757° • 762° • 767° • 772° • 777° • 782° • 787° • 792° • 797° • 802° • 807° • 812° • 817° • 822° • 827° • 832° • 837° • 842° • 847° • 852° • 857° • 862° • 867° • 872° • 877° • 882° • 887° • 892° • 897° • 902° • 907° • 912° • 917° • 922° • 927° • 932° • 937° • 942° • 947° • 952° • 957° • 962° • 967° • 972° • 977° • 982° • 987° • 992° • 997° • 1002° • 1007° • 1012° • 1017° • 1022° • 1027° • 1032° • 1037° • 1042° • 1047° • 1052° • 1057° • 1062° • 1067° • 1072° • 1077° • 1082° • 1087° • 1092° • 1097° • 1102° • 1107° • 1112° • 1117° • 1122° • 1127° • 1132° • 1137° • 1142° • 1147° • 1152° • 1157° • 1162° • 1167° • 1172° • 1177° • 1182° • 1187° • 1192° • 1197° • 1202° • 1207° • 1212° • 1217° • 1222° • 1227° • 1232° • 1237° • 1242° • 1247° • 1252° • 1257° • 1262° • 1267° • 1272° • 1277° • 1282° • 1287° • 1292° • 1297° • 1302° • 1307° • 1312° • 1317° • 1322° • 1327° • 1332° • 1337° • 1342° • 1347° • 1352° • 1357° • 1362° • 1367° • 1372° • 1377° • 1382° • 1387° • 1392° • 1397° • 1402° • 1407° • 1412° • 1417° • 1422° • 1427° • 1432° • 1437° • 1442° • 1447° • 1452° • 1457° • 1462° • 1467° • 1472° • 1477° • 1482° • 1487° • 1492° • 1497° • 1502° • 1507° • 1512° • 1517° • 1522° • 1527° • 1532° • 1537° • 1542° • 1547° • 1552° • 1557° • 1562° • 1567° • 1572° • 1577° • 1582° • 1587° • 1592° • 1597° • 1602° • 1607° • 1612° • 1617° • 1622° • 1627° • 1632° • 1637° • 1642° • 1647° • 1652° • 1657° • 1662° • 1667° • 1672° • 1677° • 1682° • 1687° • 1692° • 1697° • 1702° • 1707° • 1712° • 1717° • 1722° • 1727° • 1732° • 1737° • 1742° • 1747° • 1752° • 1757° • 1762° • 1767° • 1772° • 1777° • 1782° • 1787° • 1792° • 1797° • 1802° • 1807° • 1812° • 1817° • 1822° • 1827° • 1832° • 1837° • 1842° • 1847° • 1852° • 1857° • 1862° • 1867° • 1872° • 1877° • 1882° • 1887° • 1892° • 1897° • 1902° • 1907° • 1912° • 1917° • 1922° • 1927° • 1932° • 1937° • 1942° • 1947° • 1952° • 1957° • 1962° • 1967° • 1972° • 1977° • 1982° • 1987° • 1992° • 1997° • 2002° • 2007° • 2012° • 2017° • 2022° • 2027° • 2032° • 2037° • 2042° • 2047° • 2052° • 2057° • 2062° • 2067° • 2072° • 2077° • 2082° • 2087° • 2092° • 2097° • 2102° • 2107° • 2112° • 2117° • 2122° • 2127° • 2132° • 2137° • 2142° • 2147° • 2152° • 2157° • 2162° • 2167° • 2172° • 2177° • 2182° • 2187° • 2192° • 2197° • 2202° • 2207° • 2212° • 2217° • 2222° • 2227° • 2232° • 2237° • 2242° • 2247° • 2252° • 2257° • 2262° • 2267° • 2272° • 2277° • 2282° • 2287° • 2292° • 2297° • 2302° • 2307° • 2312° • 2317° • 2322° • 2327° • 2332° • 2337° • 2342° • 2347° • 2352° • 2357° • 2362° • 2367° • 2372° • 2377° • 2382° • 2387° • 2392° • 2397° • 2402° • 2407° • 2412° • 2417° • 2422° • 2427° • 2432° • 2437° • 2442° • 2447° • 2452° • 2457° • 2462° • 2467° • 2472° • 2477° • 2482° • 2487° • 2492° • 2497° • 2502° • 2507° • 2512° • 2517° • 2522° • 2527° • 2532° • 2537° • 2542° • 2547° • 2552° • 2557° • 2562° • 2567° • 2572° • 2577° • 2582° • 2587° • 2592° • 2597° • 2602° • 2607° • 2612° • 2617° • 2622° • 2627° • 2632° • 2637° • 2642° • 2647° • 2652° • 2657° • 2662° • 2667° • 2672° • 2677° • 2682° • 2687° • 2692° • 2697° • 2702° • 2707° • 2712° • 2717° • 2722° • 2727° • 2732° • 2737° • 2742° • 2747° • 2752° • 2757° • 2762° • 2767° • 2772° • 2777° • 2782° • 2787° • 2792° • 2797° • 2802° • 2807° • 2812° • 2817° • 2822° • 2827° • 2832° • 2837° • 2842° • 2847° • 2852° • 2857° • 2862° • 2867° • 2872° • 2877° • 2882° • 2887° • 2892° • 2897° • 2902° • 2907° • 2912° • 2917° • 2922° • 2927° • 2932° • 2937° • 2942° • 2947° • 2952° • 2957° • 2962° • 2967° • 2972° • 2977° • 2982° • 2987° • 2992° • 2997° • 3002° • 3007° • 3012° • 3017° • 3022° • 3027° • 3032° • 3037° • 3042° • 3047° • 3052° • 3057° • 3062° • 3067° • 3072° • 3077° • 3082° • 3087° • 3092° • 3097° • 3102° • 3107° • 3112° • 3117° • 3122° • 3127° • 3132° • 3137° • 3142° • 3147° • 3152° • 3157° • 3162° • 3167° • 3172° • 3177° • 3182° • 3187° • 3192° • 3197° • 3202° • 3207° • 3212° • 3217° • 3222° • 3227° • 3232° • 3237° • 3242° • 3247° • 3252° • 3257° • 3262° • 3267° • 3272° • 3277° • 3282° • 3287° • 3292° • 3297° • 3302° • 3307° • 3312° • 3317° • 3322° • 3327° • 3332° • 3337° • 3342° • 3347° • 3352° • 3357° • 3362° • 3367° • 3372° • 3377° • 3382° • 3387° • 3392° • 3397° • 3402° • 3407° • 3412° • 3417° • 3422° • 3427° • 3432° • 3437° • 3442° • 3447° • 3452° • 3457° • 3462° • 3467° • 3472° • 3477° • 3482° • 3487° • 3							

Recessed spotlight Cardo CRC



- Lighting technology HIT/G8.5
- for recessed mounting
- Recessed spotlight, gimbal mounted
- tilting and turning
- Connection data: electronic ballast, 20(24)W, 70(80)W
- Weight 1,2 kg

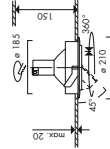
Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed spotlight

Article numbers
04 CRC 6XX...

20/35/70 W



Reflector HIT/G8.5	SSP	SP	MFL	WFL
17 HHU 810-... 17 HHU 810-SN-... 17 HHU 810-GD-... 17 HHU 810-RS-... 17 HHU 810-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HHU 610-... 17 HHU 610-SN-... 17 HHU 610-GD-... 17 HHU 610-RS-... 17 HHU 610-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HHU 410-... 17 HHU 410-SN-... 17 HHU 410-GD-... 17 HHU 410-RS-... 17 HHU 410-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HHU 210-... 17 HHU 210-SN-... 17 HHU 210-GD-... 17 HHU 210-RS-... 17 HHU 210-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz
27 VT 1051-5F00 27 VE 1121 27 VE 1321	27 VT 1051-5F00 27 VE 1121 27 VE 1321	27 VT 1051-5F00 27 VE 1121 27 VE 1321	27 VT 1051-5F00 27 VE 1121 27 VE 1321	27 VT 1051-5F00 27 VE 1121 27 VE 1321

Ballast

Information about lamps ↗ 388

As a matter of principle, Ansong recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Recessed spotlights Cardo CBI



- Lighting technology HIT/G8.5
- for recessed mounting
- Recessed spotlight, gimbal mounted
- tilting and turning
- Connection data: electronic ballast, 20(24)W, 35(42)W, 70(80)W
- Weight 0,7 kg

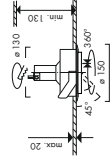
Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed spotlight

Article numbers
04 CBI 6XX...

20/35/70 W



Reflector HIT/G8.5	SSP	SP	MFL	FL
17 HB 810-... 17 HB 810-SN-... 17 HB 810-GD-... 17 HB 810-RS-... 17 HB 810-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HB 610-... 17 HB 610-SN-... 17 HB 610-GD-... 17 HB 610-RS-... 17 HB 610-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HB 410-... 17 HB 410-SN-... 17 HB 410-GD-... 17 HB 410-RS-... 17 HB 410-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
17 HB 210-... 17 HB 210-SN-... 17 HB 210-GD-... 17 HB 210-RS-... 17 HB 210-BD-...	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.
220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz
27 VT 1021-5F00 27 VE 1121 27 VE 1321	27 VT 1021-5F00 27 VE 1121 27 VE 1321	27 VT 1021-5F00 27 VE 1121 27 VE 1321	27 VT 1021-5F00 27 VE 1121 27 VE 1321	27 VT 1021-5F00 27 VE 1121 27 VE 1321

Ballast

Information about lamps ↗ 388

As a matter of principle, Ansong recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.



- Lighting technology QT-IP12/GY6.3
- for recessed mounting
- Recessed spotlight, gimbal mounted
- tilting and turning
- Connection data: electronic transformer, 12V, max. 90W
- Weight 0.7 kg

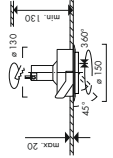
Connection of light fitting to ballast by means of 2-pole terminal block.



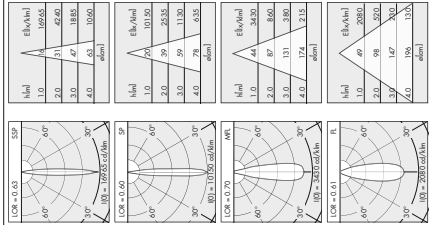
Optional accessories	Glare reduction cylindrical Filter	Coloured glass filter blue yellow green orange red	Article numbers 17 AS 2000 17 GL 1021 17 GL 1023 17 GL 1024 17 GL 1026 17 GL 1010 17 WR 0003 17 WR 0003 17 WR 0003
	Honeycomb grid	UV filter	

Order information
The use of the colour filters blue, green is only permitted for the operation of the luminaire in the 20W and 3.5W versions.
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Recessed spotlight



Reflector QT-IP12/GY6.3



SSP	Safety glass incl.	17 HB 810-...
SP	Safety glass incl.	17 HB 610-...
MFL	Safety glass incl.	17 HB 410-...
FL	Safety glass incl.	17 HB 210-...

Ballast

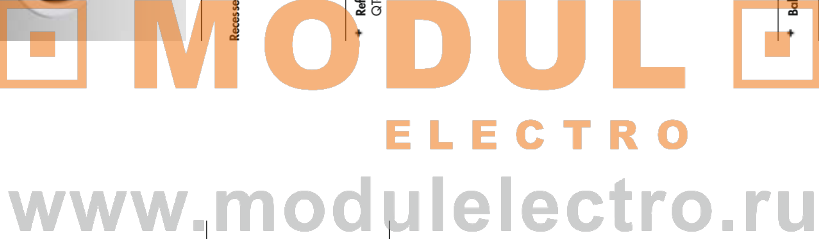
Electronic low voltage transformer
QT-IP12/QR-CBC/QT14

230-240V/12V, 20-105 VA
50/60Hz

- + Lamp
QT-IP12/IRC/GY6.35/35/50/65 W
QT-IP12/GY6.35/20/35/50/75/90 W

Optional accessories
Glare reduction cylindrical Filter

Order information
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver



Downlights

Advantages and Features

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



Maxx 7173 New with LED

- Minimalistic design
- The reflector is the shape-determining moment
- Excellent glare-reduction of the reflectors for perfect ease of vision
- Large variety of structural shapes: the luminaire gradually grows out of the ceiling to achieve an optimum lighting effect in every situation



Pizza 7195

- Simple luminaire design – natural light incidence
- The intrinsic brightness of the luminaire serves as a ceiling design element
- Integrated downlights with high luminous intensity for accentuation



Linea 7203

- Classic design
- Good glare reduction of the reflectors for optimum ease of vision
- Multi Watt ballast increases the flexibility for the use of various lamp wattages
- Solution for ambient lighting with good price/performance ratio

MODULO
ELECTRO
www.modulelectro.ru

	Maxx ↗ 173	Pizza ↗ 195	Linea ↗ 203
Mounting dimensions	d = 85mm d = 95mm d = 130mm d = 145mm d = 185mm d = 245mm d = 402mm d = 535mm l = 600mm, w = 600mm		
Lighting technology	QH/P12/GY6.35 max. 50 W QT14/G8.5 max. 60 W HIT/G12.35 W HIT/G12.70 W HIT/G12.100 W HIT/G12.150 W HIT/G8.5 20 W HIT/G8.5 35 W HIT/G8.5 70 W HIT/PG15 20 W TC-L/2G11 24 W TC-L/2G11 36 W TC-L/2G11 55 W LED		
Ballast	electronic ballast incl. electronic transformer incl.		
Type of reflector	MFLL FL VMFL VMFLL		

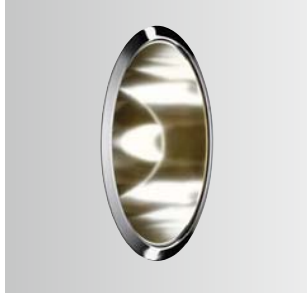
• with LED

MODULO ELECTRO

www.modulelectro.ru

Downlights Maxx

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



MODULO ELECTRO

www.modulelectro.ru

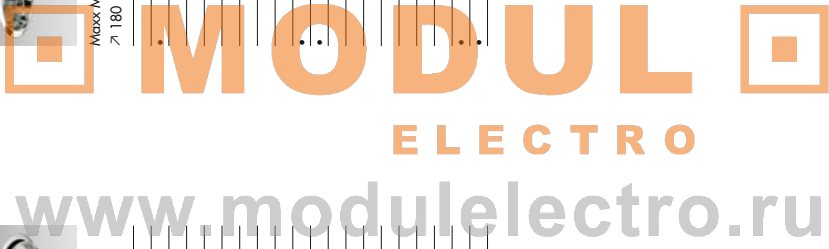
The Maxx product line is a range of luminaires of uniformly shaped design for universal lighting tasks. Innovative reflector equipment produces glare-free light and thus provides good visibility. Recessed, semi-recessed, surface mounted and pendant versions are available and can in each case be equipped with LED, low voltage halogen, metal halide and compact fluorescent lamps. Different reflector sizes and beam angles provide precise lighting options for a variety of uses.







New: with LED

- Minimalistic design
- The reflector is the shape-determining moment
- Excellent glare-reduction of the reflectors for perfect ease of vision
- Large variety of structural shapes: the luminaire gradually grows out of the ceiling to achieve an optimum lighting effect in every situation



	Maxx MBB ↗ 178	Maxx MCA ↗ 179	Maxx MCB ↗ 180	Maxx MCL ↗ 181	Maxx MFM ↗ 182	Maxx MHN ↗ 183	Maxx MHN ↗ 184	Maxx MBC ↗ 185	Maxx MCC ↗ 186
Mounting dimensions	d = 85mm d = 95mm d = 130mm								
Lighting technology	GH/PI2/GY6.35 max. 50 W HIT/G12 35 W HIT/G12 70 W HIT/G12 100 W HIT/G12 150 W HIT/G8.5 35 W HIT/G8.5 70 W HIT/PG15 20 W LED								
Ballast	electronic ballast incl.								
Type of reflector	MF FL WF WFL								
	• with LED								



							
		Maxx MBE ↗ 187	Maxx MBF ↗ 188	Maxx MBG ↗ 189	Maxx MHF ↗ 190	Maxx MMF ↗ 191	Maxx MMG ↗ 192
Mounting dimensions	d = 130mm						
Lighting technology	<ul style="list-style-type: none"> OT14/G8,5 max. 60 W HIT/G12 35 W HIT/G12 70 W HIT/G12 150 W 						
Ballast	<ul style="list-style-type: none"> electronic ballast incl. electronic transformer incl. 						
Type of reflector	<ul style="list-style-type: none"> FI WF YWF 						

MODUL
ELECTRO
www.modulelectro.ru

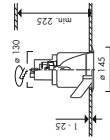


- Lighting technology HIT/G12
- for recessed mounting
- Downlight
- high cut-off angle
- Connection data: electronic ballast, 35 (42)W, 70(80)W, 100(109)W; conventional ballast, 35(48)W, 70(88)W
- Weight 1.0 kg



Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.

Recessed luminaire



highly reflective coated

35/70/100 W
35/70/100 W

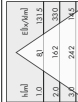
Article numbers
03 MBB 6XX
03 MBB 6XX...

+ Reflector
HIT/G12

FL

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 610
17 HH 610-SN
17 HH 610-GD
17 HH 610-RS
17 HH 610-BD



WFL

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 410
17 HH 410-SN
17 HH 410-GD
17 HH 410-RS
17 HH 410-BD



VWFL

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 210
17 HH 210-SN
17 HH 210-GD
17 HH 210-RS
17 HH 210-BD



+ Ballast

Electronic ballast
HIT/HIF-DE

220-240V
50/60Hz

35 W
70 W
100 W

27 VTE 1121
27 VTE 1321
27 VT 1521-5P00

Conventional ballast
HIT/HIF-DE

230V 50Hz

35 W
70 W

27 VTE 1161
27 VTE 1361

HIT/G12 35/70/100 W

240V 50Hz

35 W
70 W

27 VT 1194
27 VT 1394

Information about lamps ↗ 388
As a matter of principle, Ansong recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Order information

Article numbers ending on "... one to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite

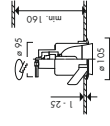


- Lighting technology HIT/G8.5
- for recessed mounting
- Downlight, slightly protruding reflector
- high cut-off angle
- Connection data: electronic ballast, 35(42)W, 70(80)W
- Weight 0.6 kg



Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.

Recessed luminaire



highly reflective coated

35/70 W
35/70 W

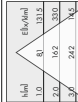
Article numbers
03 MCA 6XX
03 MCA 6XX...

+ Reflector
HIT/G8.5

WFL

Safety glass incl.

17 HK 610



VWFL

Safety glass incl.

17 HK 410



Electronic ballast
HIT/HIF-DE

220-240V
50/60Hz

35 W
70 W

27 VTE 1121
27 VTE 1321

HIT/G8.5 35/70 W

Information about lamps ↗ 388

Information about lamps ↗ 388

Article numbers ending on "... one to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite

MODULO ELECTRO

www.modulelectro.ru



- Lighting technology HIT/G8.5
- for recessed mounting
- Downlight, flush reflector
- high cut-off angle
- Connection data: electronic ballast: 35(42)W, 70(80)W
- Weight 0.6 kg

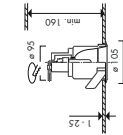
Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed luminaire

highly reflective coated

35/70 W
35/70 W

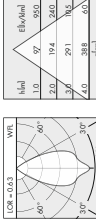


+ Reflector
HIT/G8.5

WFL

Safety glass incl.

17 HK 610



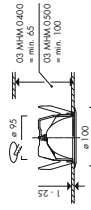


- Lighting technology HIT/PGJ5
- for recessed mounting
- Downlight with integral electronic ballast
- Suitable for show-cases or changing cubicles
- Connection data: electronic ballast, 220-240V, 20/25W
- Weight 0.2 kg

Connection of light fitting to mains by means of connection cable (1 m) left bare ended.



Recessed luminaire with integral reflector



HIT/PGJ5

MFH



+ Lamp

HIT/PGJ5 20 W

Information about lamps ↗ 389

Order information

The luminaire is only available in the 'high brilliance' version. The ballast (electronic) is included in the scope of supply.

Article numbers
03 MHN 0400
03 MHN 0500

Safety glass, incl. electronic ballast incl.

20 W
20 W

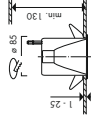


- Lighting technology QT/IP12/GY6.35
- for recessed mounting
- Downlight
- high cut-off angle
- Connection data: electronic transformer, 12V, max. 50W
- Weight 0.2 kg

Connection of light fitting to ballast by means of 2-pole terminal block.



Recessed luminaire with integral reflector



QT/IP12/GY6.35

FL



+ Ballast

Electronic low voltage transformer
QT/IP12/CBC/CBC/QT1 4

230-240V/12V, 50/60Hz

15 NE 3018

+ Lamp

QT/IP12 IRC/GY6.35 35/50 W

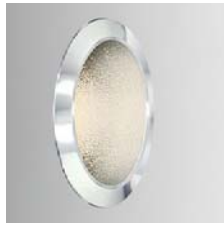
QT/IP12/GY6.35 20/35/50 W

Information about lamps ↗ 392

Information about lamps ↗ 392

Order information

The luminaire is only available in the 'high brilliance' version.



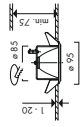
- Lighting technology LED
- for recessed mounting
- Downlight with integral reflector SP
- high cut-off angle
- Connection data: supply unit, 3.6W, 3000K or 4000K, approx. 200lm, CRI> 80
- Weight 0.3 kg

Connection of LED to supply unit by means of 2-pole cable.

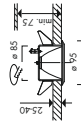


Recessed luminaire with integral reflector

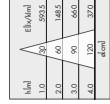
For ceiling thicknesses from 1mm to 20mm



For ceiling thicknesses from 25mm to 40mm



LED



+ Ballast

220-240V
50/60Hz

max. 11 W

17 LE 1707

Lamp

LED

Order information

The luminaire is only available in the 'high brilliance' version.
Version of the product in other colour temperatures on request.
Version of the product with reflector FL on request.



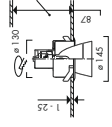
- Lighting technology HIT/G12
- for recessed mounting
- Semi-recessed downlight
- high cut-off angle
- Connection data: electronic ballast, 35(42)W/70(80)W/100(109)W/150(163)W; conventional ballast, 35(48)W, 70(88)W
- Weight 0.8 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed luminaire

highly reflective
coated

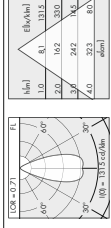


Article numbers
03 MBC 63X
03 MBC 33X
03 MBC 43X...
03 MBC 33X...

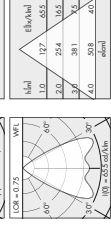
35/70 W
100/150 W
35/70 W
100/150 W

Reflector HIT/G12

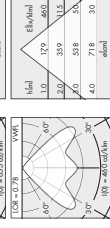
FL



WFL



VWFL



17 HH 610
17 HH 610SN
17 HH 610GD
17 HH 610RS
17 HH 610RD

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 410
17 HH 410SN
17 HH 410GD
17 HH 410RS
17 HH 410RD

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 210
17 HH 210SN
17 HH 210GD
17 HH 210RS
17 HH 210RD

Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

+ Ballast

Electronic ballast
HIT/HITDE

220-240V
50/60Hz

35 W
70 W
100 W
150 W

Conventional ballast

HIT/HITDE

230V 50Hz
240V 50Hz

35 W
70 W
150 W
35 W
70 W
150 W

+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite



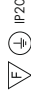
- Lighting technology HIT/G8.5
- for recessed mounting
- Semi-recessed downlight
- high cut-off angle
- Connection data: electronic ballast, 35(42)W, 70(80)W
- Weight 0.5 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3, red.



- Lighting technology HIT/G12
- for surface mounting
- Surface mounted downlight with integral electronic ballast
- high cut-off angle
- Connection data: electronic ballast, 230-240V, 35(42)W, 70(80)W
- Weight 1.8 kg

Connection of light fitting to mains by means of 3-pole terminal block.

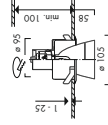


Recessed luminaire

highly reflective coated

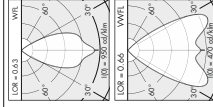
35/70 W
35/70 W

Article numbers
03 MCC 6XX
03 MCC 6XX...



+ Reflector
HIT/G8.5

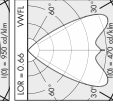
WFL



Safety glass incl.

17 HK 610

WWFL



Safety glass incl.

17 HK 410

+ Ballast

Electronic ballast
HIT/HF-DE

35 W
70 W

27 VTE 1121
27 VTE 1321

+ Lamp

HIT/G8.5 35/70 W

Information about lamps ↗ 388

Order information

Article numbers ending on "... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-traccie

MODUL ELECTRO

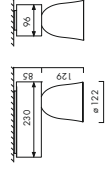
www.modulelectro.ru

Surface mounted luminaire

electronic ballast incl.

35 W
70 W

Article numbers
01 MBE 102...
01 MBE 202...



+ Reflector
HIT/G12

FL



Safety glass incl.

17 HH 610
17 HH 610SN
17 HH 610GD
17 HH 610RS
17 HH 610RD

WFL



Safety glass incl.

17 HH 410
17 HH 410SN
17 HH 410GD
17 HH 410RS
17 HH 410RD

WWFL



Safety glass incl.

17 HH 210
17 HH 210SN
17 HH 210GD
17 HH 210RS
17 HH 210RD

HIT/G12 35/70 W

+ Lamp

Information about lamps ↗ 388

As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Order information

Article numbers ending on "... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-traccie



- Lighting technology HIT/G12
- for suspended mounting
- Suspended luminaire (downlight) with integral electronic ballast in housing
- high cut-off angle
- Connection data: electronic ballast, 230-240V, 35/42W, 70/80W
- Weight 2.2 kg

Connection of light fitting to mains by means of 3-pole terminal block.

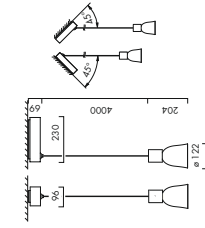


Control gear housing

with ceiling housing cable suspension 4m incl.

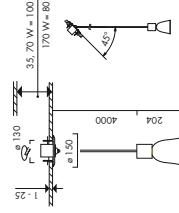
electronic ballast incl.

35 W
70 W



Control gear housing

with ceiling plate



Article numbers
07 MBF 102...
07 MBF 202...

35/70/150 W



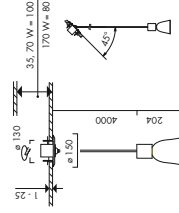
- Lighting technology HIT/G12
- for suspended mounting
- Suspended luminaire (downlight)
- high cut-off angle
- Connection data: electronic ballast, 35/42W, 70/80W, 150/163W, conventional ballast, 35/48W, 70/88W, 150/170W
- Weight 1.3 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Control gear housing

with ceiling plate



Article numbers
07 MBG 60X...

35/70/150 W

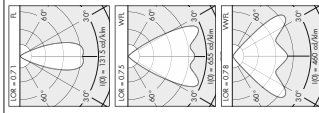


MODUL ELECTRO

www.modulelectro.ru

• Reflector
HIT/G12

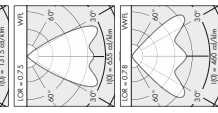
FL



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 610
17 HH 610-SN
17 HH 610-GD
17 HH 610-RS
17 HH 610-BD

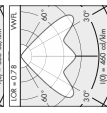
WFL



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 410
17 HH 410-SN
17 HH 410-GD
17 HH 410-RS
17 HH 410-BD

VWFL



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HH 210
17 HH 210-SN
17 HH 210-GD
17 HH 210-RS
17 HH 210-BD

• Lamp
HIT/G12 35/70 W

Information about lamps > 388
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.

• Ballast

Electronic ballast
HIT/HITDE

220-240V,
50/60Hz

35 W
70 W

27 VT 1151
27 VT 1351
27 VT 1651

Conventional ballast
HIT/HITDE

230V,
50Hz

35 W
70 W

27 VE 1161
27 VE 1361
27 VT 1164
27 VT 1364
27 VT 1664

• Lamp
HIT/G12 35/70/150 W

Information about lamps > 388
Note for 150 W lamps: only use lamps with a diameter of 20 mm (e.g. Philips CDM-T) only.
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Order information

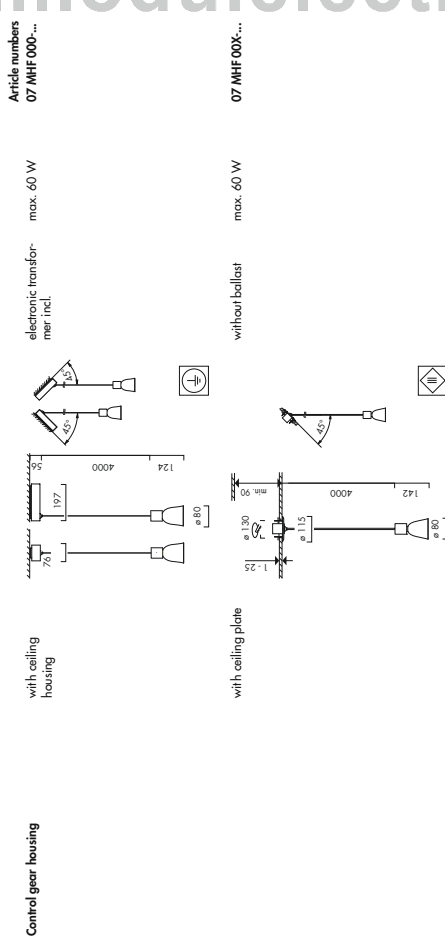
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.



- Lighting technology GT1.4/G8.5
- for suspended mounting
- Suspended luminaire (downlight) with integral electronic transformer in housing or remote gear
- high cut-off angle
- Connection data: electronic transformer, 230-240V, max. 60W; electronic transformer (remote), 12V, max. 60W
- Weight 0.9 kg; 0.3 kg (remote)

Connection of light fitting to mains by means of 3-pole terminal block (07MHF000...), or connection of light fitting to ballast by means of Wieland safety plug system ST16/2 (07MHF000...)



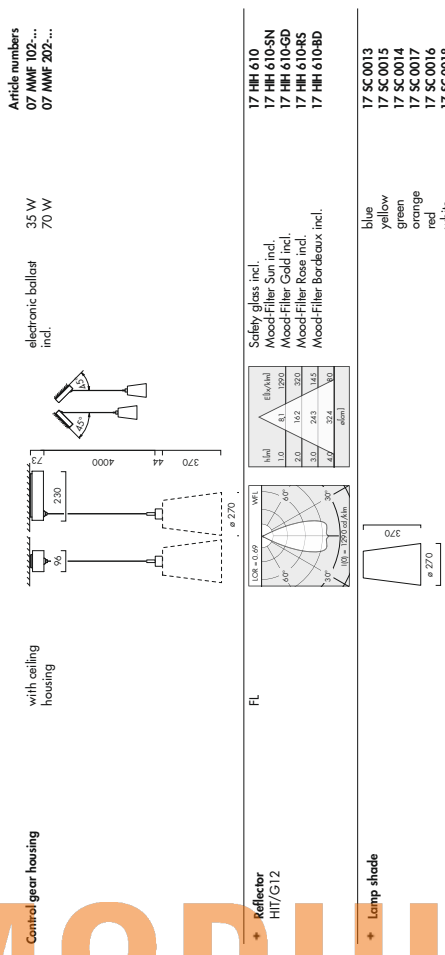
+ Reflector GT1.4/G8.5	WFL	Safety glass incl.	17 HK 610
+ Ballast GT1.2/GK-CBC/GT1.4	WVFL	Safety glass incl.	17 HK 410
+ Lamp GT1.4/G8.5 45/60 W	Electronic low voltage transformer	230-240V/12V, 30/60Hz	15 NE 3018

Information about lamps ↗ 392
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite
For luminaire colour code -401 (white) and for colour code -402 (anthracite) the cable is transparent.



- Lighting technology HIT/G12
- for suspended mounting
- Coloured luminaire (downlight) with integral electronic ballast in housing
- coloured semi-transparent lamp shade, pure white light cone
- Connection data: electronic ballast, 230-240V, 35(42)W, 70(80)W
- Weight 2.7 kg

Connection of light fitting to mains by means of 3-pole terminal block.



+ Lamp HIT/G12 35/70 W	FL	Information about lamps ↗ 388	17 HH 610
+ Lamp shade	Reflector HIT/G12	As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature P30.	17 HH 610 SN 17 HH 610 GD 17 HH 610 RS 17 HH 610 BD
+ Lamp		Article numbers ending on ... are to be supplemented by the colour code. Colour code: ...401 = white / ...402 = anthracite For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.	17 SC0013 17 SC0015 17 SC0014 17 SC0017 17 SC0016 17 SC0018

Information about lamps ↗ 388
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature P30.
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite
For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.



- Lighting technology HIT/G12
- for suspended mounting
- coloured luminaire (downlight)
- Connection semi-transparent lamp shade, pure white light cone
- Connection data: electronic ballast: 35(42)W, 70(80)W, conventional ballast, 35(48)W, 70(85)W
- Weight max. 1,7 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



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HIT/G12 35/70 W
+ Lamp
Information about lamps → 388
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

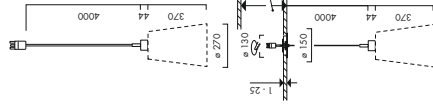
Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite
For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.

35/70 W

Article numbers
07 MMG 60X

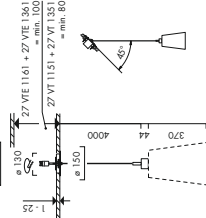
without ceiling plate
cable suspension
4m incl.



35/70 W

07 MMG 62X...

with ceiling plate
cable suspension
4m incl.



+ Reflector

HIT/G12

FL

h/h _{total}	h/h _{total}	h/h _{total}
1.0	0.8	1.0
2.0	1.6	2.0
3.0	2.4	3.0
4.0	3.2	4.0

Safety glass incl.
Mood Filter Sun incl.
Mood Filter Gold incl.
Mood Filter Rose incl.
Mood Filter Bordeaux incl.

17 HH 610
17 HH 610-SN
17 HH 610-GD
17 HH 610-RS
17 HH 610-RD

+ Lamp shade

Blue
Yellow
Green
Orange
Red
White

17 SC 0013
17 SC 0015
17 SC 0014
17 SC 0017
17 SC 0016
17 SC 0018

+ Ballast

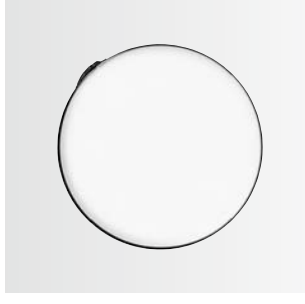
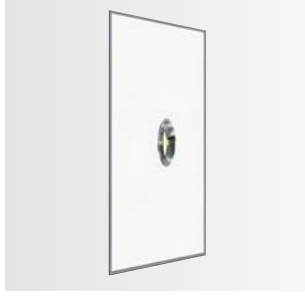
Electronic ballast
HIT/HIDE
Conventional ballast
HIT/HIDE

220-240V, 50/60Hz
230V, 50Hz
240V, 50Hz

35 W
70 W
35 W
70 W
35 W
70 W
27 VT 1151
27 VT 1351
27 VTE 1161
27 VTE 1361
27 VT 1164
27 VT 1364

Downlights Pizza

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MODULO
ELECTRO

www.modulelectro.ru


Pizza is a downlight series of round or rectangular shape for compact fluorescent lamps. The luminaires are closed with white opal acrylic glasses. Thus the impression of a hovering disc or the appearance of diffuse daylight falling through an opening in the ceiling is created. The range is supplemented by luminaires with integrated powerful downlights for accentuation. Pizza is suitable both for ambient lighting and for the entrance areas or points of decoration.

- Simple luminaire design – natural light incidence
- The intrinsic brightness of the luminaire serves as a ceiling design element
- Integrated downlights with high luminous intensity for accentuation

Downlights Compendium Pizza

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

	Pizza PIC ↗ 198	Pizza PIK ↗ 199	Pizza PIK ↗ 200
Mounting dimensions	d = 402mm d = 535mm l = 600mm, w = 600mm		
Lighting technology	HIT/GB.5 20 W HIT/GB.5 35 W HIT/GB.5 70 W TC-L/ZG11 18 W TC-L/ZG11 24 W TC-L/ZG11 36 W TC-L/ZG11 55 W		
Ballast	electronic ballast incl.		
Type of reflector	WFL		



www.modulelectro.ru



- Lighting technology TC-L/2G11
- for recessed mounting
- Downlight with integral electronic ballast and white opal acrylic glass
- Coated glass retaining ring
- Connection data: electronic ballast, 220-240V, 3x18(60)W, 3x24(78)W
- Weight 7.3 kg

Connection of light fitting to mains by means of 5-pole terminal block.

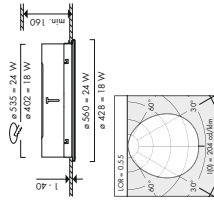


Recessed luminaire

electronic ballast
incl.

3 x 18 W
3 x 24 W

Article numbers
03 PIC 1074...
03 PIC 1075...



+ Lamp

TC-L/2G11 18/24 W

Information about lamps \nearrow 390

Order information

Article numbers ending on "...", are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

The ballast (electronic) is included in the scope of supply.



- Lighting technology TC-L/2G11
- for recessed mounting
- Downlight with integral electronic ballast and white opal acrylic glass
- Coated glass retaining frame
- Connection data: electronic ballast, 220-240V, 3x55(182)W
- Weight 8.9 kg

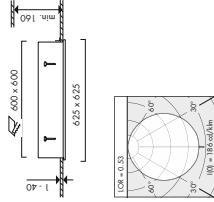
Connection of light fitting to mains by means of 5-pole terminal block.



Recessed luminaire

3 x 55 W

Article numbers
03 PLK 6200...



+ Lamp

TC-L/2G11 55 W

Information about lamps \nearrow 390

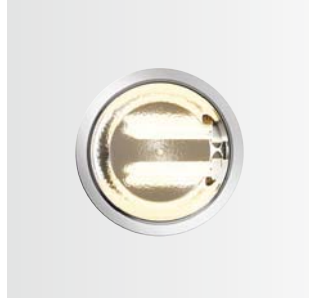
Order information

Article numbers ending on "...", are to be supplemented by the colour code.
Colour code: ...401 = white / ...410 = silver

The ballast (electronic) is included in the scope of supply.

Downlights Linea

- 1
- 2
- 3
- 4
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- 6
- 7
- 8

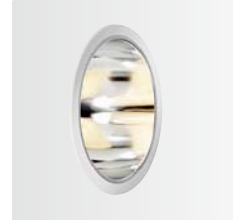


MODULO ELECTRO

www.modulelectro.ru

Linea is a family of powerful downlights with a selection of diameters. The advantages of the range are to be seen in the variety of available light sources and reflectors. The downlights yield balanced ambient lighting in retail areas or halls and are used for high-performance but economical lighting duties.


- Classic design
- Good glare reduction of the reflectors for optimum ease of vision
- Multi-Watt ballast increases the flexibility for the use of various lamp wattages
- Solution for ambient lighting with good price/performance ratio



Downlights Compendium Linea

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

	Linea SRV ↗ 206	Linea SRC ↗ 207	Linea TEG ↗ 208
Mounting dimensions	d = 145mm d = 185mm d = 245mm		
Lighting technology	HIT/G12 35 W HIT/G12 70 W HIT/G12 100 W HIT/G12 150 W TC-HEL/GX24q-3 26 W TC-HEL/GX24q-3 26/32 W TC-HEL/GX24q-4 42 W		
Ballast	electronic ballast incl.		
Type of reflector	FL WFL		

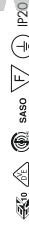


www.modulelectro.ru



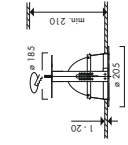
- Lighting technology HIT/G12
- for recessed mounting
- Downlight
- Connection data: electronic ballast, 35(42)W, 70(80)W, 100(109)W, 150(163)W;
- conventional ballast, 35(48)W, 70(88)W, 150(170)W
- Weight 1.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed luminaire

35/70/100/
150 W

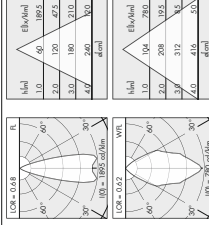


Article numbers
03 SRV 6XX

+ Reflector
HIT/G12

FL

Safety glass incl.
Mood-Filler Sun incl.
Mood-Filler Gold incl.
Mood-Filler Rose incl.
Mood-Filler Bordeaux incl.



+ Ballast

Electronic ballast
HIT/HIF-DE

220-240V
50/60Hz

Conventional ballast
HIT/HIF-DE

230V 50Hz

240V 50Hz

+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps ↗ 388
As a matter of principle, Ansoorg recommends the use of mood
filters in combination with HIT lamps having the colour tempera-
ture 930.

Order information

The luminaire is only available in the 'white' version.



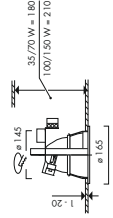
- Lighting technology HIT/G12
- for recessed mounting
- Downlight
- Connection data: electronic ballast, 35(42)W, 70(80)W, 100(109)W, 150(163)W;
- conventional ballast, 35(48)W, 70(88)W, 150(170)W
- Weight 1.0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Recessed luminaire with integral
reflector

100/150 W
35/70 W



Article numbers
03 SRC 3XX
03 SRC 6XX
03 SRC 6XX-SN
03 SRC 6XX-GD
03 SRC 6XX-RS
03 SRC 6XX-BD

Safety glass incl.
Mood-Filler Sun
incl.
Mood-Filler Gold
incl.
Mood-Filler Rose
incl.
Mood-Filler Bor-
deaux incl.

Electronic ballast
HIT/HIF-DE

220-240V
50/60Hz

Conventional ballast
HIT/HIF-DE

230V 50Hz

240V 50Hz

Order information

The luminaire is only available in the 'white' version.

MODULO ELECTRO

www.modulelectro.ru

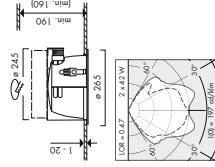


Connection of light fitting to mains by means of 3-pole terminal block.

- Lighting technology TC-DEL/G24q, TC-TEL/GX24q
- for recessed mounting
- Downlight with integral electronic ballast (multiple wattage choice)
- Universal socket with bayonet lamp base
- Connection data: electronic ballast, 220-240V, 26(27W, 32(35W, 42(46)W
- Weight 1,3 kg



Recessed luminaire with integral reflector



Article numbers
03 TEG 2010
03 TEG 2020

electronic ballast
incl. 2x 26-42 W
2x 26-42 W

+ Lamp

TC-DEL/G24q-3 26 W
TC-TEL/GX24q-3 26/32 W
TC-TEL/GX24q-4 42 W

Information about lamps ↗ 390
Information about lamps ↗ 391
Information about lamps ↗ 391

Optional accessories

Floor glass
Floor glass only suitable for 2x C-DEL/TC-TEL 26 and 32 W; for 32 W only use Osram IN PLUS lamps.

17 DS 0100

Order information

The luminaire is only available in the 'white' version.
The Multiwatt electronic ballast (220-240V) is included in the scope of supply.

MODULO

ELECTRO

www.modulelectro.ru

Suspended luminaires Advantages and Features

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Classic 7215

- Retro design
- Combination of decorative design and highly efficient shop lighting
- Simple installation: the luminaire shade can be installed in advance, lamp replacement is possible without removal of the lamp shade
- Large variety of combinations of connection to ceiling, lamp technology and lampshade design



Collection 7227

- Custom-made design
- Individualised luminaire design based on the customer's corporate identity: 'Create your own design'
- Combination of decorative use of shapes and highly-efficient merchandise lighting
- Large variety of combinations of connection to ceiling, lamp technology and lampshade design



Sino 7239

- Technical design
- Zoomable lighting: fine tuning for adjustment to individual room heights
- The modular structure, the 'plug and play' connector system, in the electrical installation and the bayonet mechanism of the reflector make mounting easier and reduce the cost

MODULELECTRO
www.modulelectro.ru



Cupola 7247

- Classic design
- The classic among the suspended luminaires with a loft look
- Acrylic reflector for distant effect, aluminium reflectors for dark / light effect
- High luminous efficiency for optimum efficiency

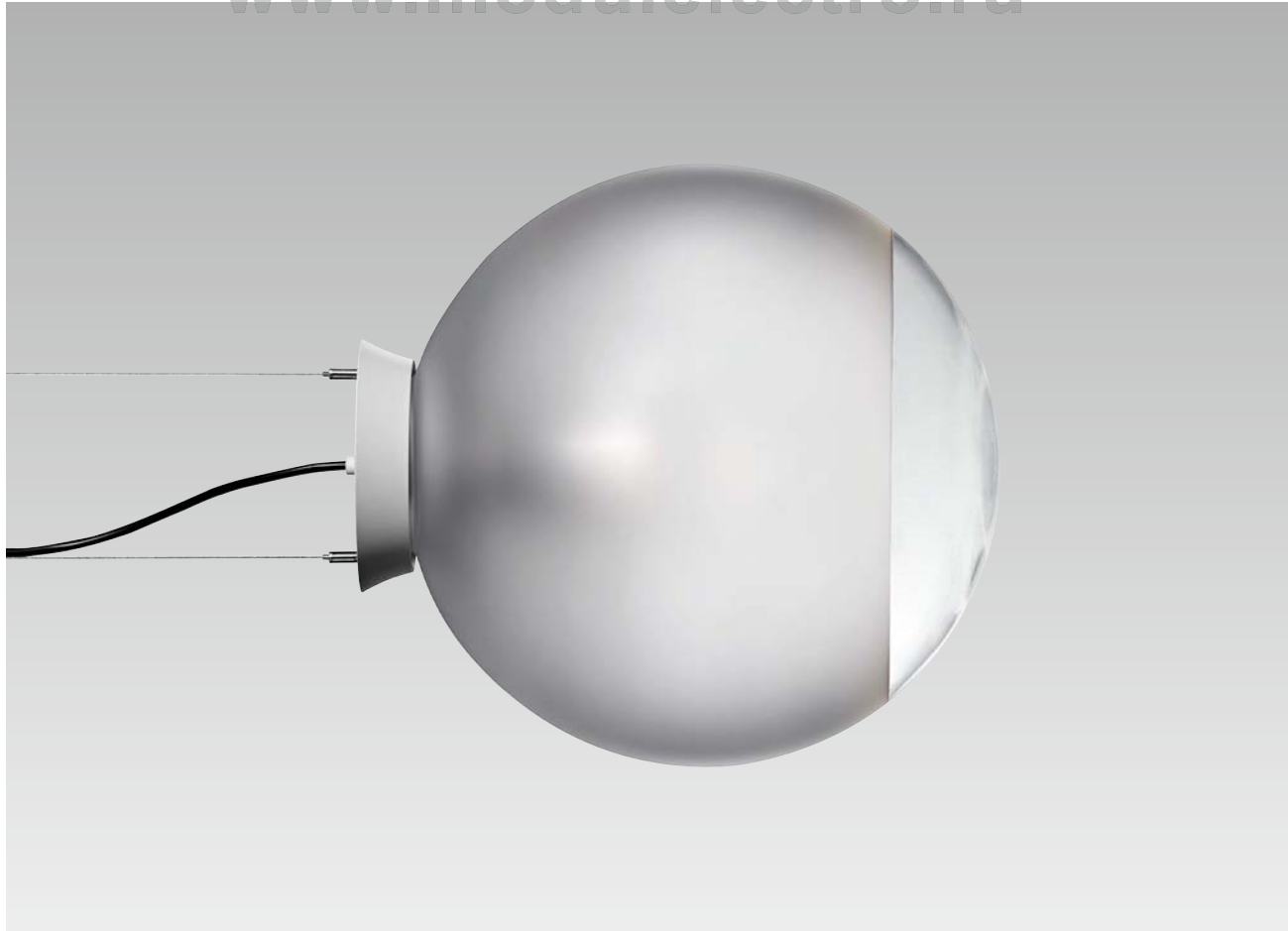


Cone 7257

- Elegant, classic luminaire design
- Suspended luminaire in large format that emotionalizes by means of colour
- Flexibility in colour design – simple change of the coloured film changes the visual effect
- Combination of visible light with distant effect and high-performance lighting technology without any adverse effect on colour rendition in the cone of light

Suspended luminaires Classic

- 1
- 2
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- 8



MODULO ELECTRO



www.modulelectro.ru

Classic is a suspended luminaire series which meets both decorative demand and also takes into account the aspect of technical merchandise lighting. This series of products is above all suitable for use as a suspended downlight for ambient or aisle area lighting, particularly when at the same time design structuring of the overall area is desired. Classic basic shapes in respective different design variants are available: intended both for the use of metal halide lamps and also for lamps based on E27 sockets. For ceiling mounting, special fastening systems are available, depending on whether the luminaires are installed on plaster board, wooden or trapezoidal ceilings.

- Retro design
- Combination of decorative design and highly efficient shop lighting
- Simple installation: the luminaire shade can be installed in advance, lamp replacement is possible without removal of the lamp shade
- Large variety of combinations of connection to ceiling, lamp technology and lampshade design

Suspended luminaires Compendium Classic

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		Classic Ball ↗ 218	• • • •
		Classic Tulip ↗ 220	• • • •

Lighting technology

HIT/G12 35 W
HIT/G12 70 W
HIT/G12 150 W

Type of reflector

VWFL

	Classic Ball ↗ 221	• • • •
	Classic Minimum ↗ 222	• • • •
	Fastenings Classic ↗ 223	• • • •

MODULO
ELECTRO
www.modulelectro.ru

Suspended luminaires Classic Ball



- Lighting technology HIT/G12, TCTSE/EZ7, TCG-SE/EZ7
- for suspended mounting
- Suspendable luminaire with ball-shaped lamp shade in different versions
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W, 150(163)W; conventional ballast, 35(48)W, 70(88)W, 150(170)W; TCTSE/EZ7, 230V, max. 22W; TCG-SE/EZ7, 230V, max. 18W
- Weight approx. 3.7 kg

Remote gear: HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red; EZ7: Connection of light fitting to mains by means of 3-pole terminal block.



Lighting head

HIT/G12
TCTSE/TCG-SE/
EZ7

power cable 5m
incl.

white
black

Article numbers
07 CBH 685-401
07 CBH 695-402

Information about lamps ↗ 388
Information about lamps ↗ 391
Information about lamps ↗ 391

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-frolic / ...410 = silver
Ordering of a reflector is only necessary for the version of the luminaire using the HIT/G12 lighting technology.

For luminaire colour code -401 (white) the cable colour is white,
for colour code -402 (anti-frolic) and -410 (silver) the cable colour is black

For fixing components see page ↗ 223

Reflector HIT/G12

VWFL

Safety glass incl.

17 HH 210

17 LK 0401-...
17 LK 0501-...

d = 400mm
d = 500mm

steel cable 5m incl.

Lamp shade Ball

translucent

500

steel cable 5m incl.

17 LK 0503-...

d = 500mm

steel cable 5m incl.

frosted

500

steel cable 5m incl.

17 LK 0502-...

d = 500mm

steel cable 5m incl.

opal

500

steel cable 5m incl.

17 LK 0404-...
17 LK 0504-...

d = 400mm
d = 500mm

steel cable 5m incl.

metal-coated

500

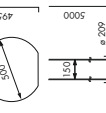
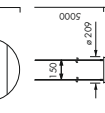
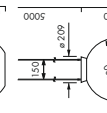
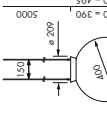
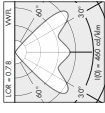
steel cable 5m incl.

17 LK 0404-...
17 LK 0504-...

d = 400mm
d = 500mm

steel cable 5m incl.

h/d	h/d	h/d	h/d
1.0	1.29	1.5	1.5
2.0	3.99	2.5	3.5
4.0	5.98	5.0	6.5
6.0	7.18	7.5	8.5
10.0	10.00	12.5	13.5



Suspended luminaires Classic Tulip



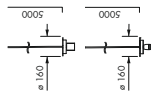
- Lighting technology HIT/G12, TC1SE/EZ7, TCG-SE/EZ7
- for suspended mounting
- Suspended luminaire with cone-shaped lamp shade
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W, 150(163)W; conventional ballast, 35(48)W, 70(88)W, 150(170)W; TC1SE/EZ7, 230V, max. 22W; TCG-SE/EZ7, 230V, max. 18W
- Weight approx. 3.0 kg

Remote gear: HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18 / 3 red; EZ7: Connection of light fitting to mains by means of 3-pole terminal block.

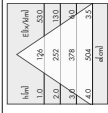
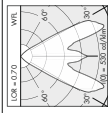


Lighting head

HIT/G12	power cable 5m incl.	white black	Article numbers 07 CBH 685-401 07 CBH 695-402
TCG-SE/EZ7	power cable 5m incl.	white black	07 CBP 685-401 07 CBP 695-402

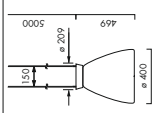


+ Reflector HIT/G12



Safety glass incl.

+ Lamp shade Tulip



steel cable 5m incl. d = 400mm

+ Lamp

HIT/G12 35/70/150 W TC1SE/EZ7 22 W TCG-SE/EZ7 15/18 W	Information about lamps ↗ 388 Information about lamps ↗ 391 Information about lamps ↗ 391
---	---

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Ordering of a reflector is only necessary for the version of the luminaire using the HIT/G12 lighting technology.

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) and -410 (silver) the cable colour is black.

For fixing components see page ↗ 223

Suspended luminaires Classic Bell

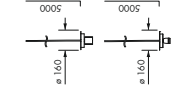


- Lighting technology HIT/G12, TC1SE/EZ7, TCG-SE/EZ7
- for suspended mounting
- Suspended luminaire with bell-shaped lamp shade in different versions
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W, 150(163)W; conventional ballast, 35(48)W, 70(88)W, 150(170)W; TC1SE/EZ7, 230V, max. 22W; TCG-SE/EZ7, 230V, max. 18W
- Weight approx. 2.2 kg

Remote gear: HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18 / 3 red; EZ7: Connection of light fitting to mains by means of 3-pole terminal block.

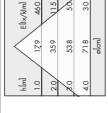
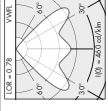


Lighting head



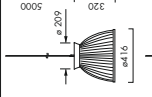
HIT/G12	power cable 5m incl.	white black	Article numbers 07 CBH 685-401 07 CBH 695-402
TCG-SE/EZ7	power cable 5m incl.	white black	07 CBP 685-401 07 CBP 695-402

+ Perforated reflector HIT/G12



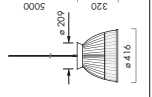
Safety glass incl.

+ Lamp shade Bell



steel cable 5m incl. d = 416mm

+ Lamp



steel cable 5m incl. d = 416mm

+ Lamp

HIT/G12 35/70/150 W TC1SE/EZ7 22 W TCG-SE/EZ7 15/18 W	Information about lamps ↗ 388 Information about lamps ↗ 391 Information about lamps ↗ 391
---	---

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Ordering of a reflector is only necessary for the version of the luminaire using the HIT/G12 lighting technology.

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) and -410 (silver) the cable colour is black.

For fixing components see page ↗ 223

Suspended luminaires Classic Minimum

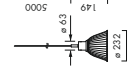


- Lighting technology HIT/G12
- for suspended mounting
- Suspended luminaire with bell-shaped lamp shade in different colours
- Connection data: electronic ballast: 35(42)W, 70(80)W; conventional ballast: 35(48)W, 70(88)W
- Weight approx. 1,2 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Lighting head with integral lamp shade



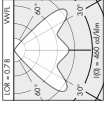
power cable 5m incl.

- blue
- green
- anthracite
- red

Article numbers
07 CMH 685-04...
07 CMH 685-06...
07 CMH 685-01...
07 CMH 685-05...

+ Perforated reflector

HIT/G12



Safety glass incl.

17 HIR 212

+ Lamp

HIT/G12 35/70 W

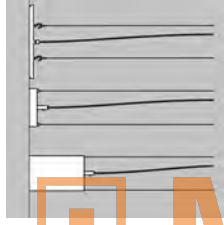
Information about lamps: 7, 388

Order information

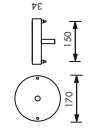
Article numbers ending on: ... one to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite / ...-410 = silver
For luminaire colour code -401 (white) the cable colour is white,
for colour code -402 (anthracite) and -410 (silver) the cable colour is black.

For fixing components see page 7, 223

Suspended luminaires Fastenings Classic

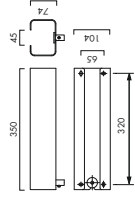


on a concrete ceiling



Ceiling canopy

Article numbers
17 CL 0012...-



Ceiling box to house conventional or electronic ballast, without ballast

17 CL 0001...-



Ballast housing with electronic ballast
220-240V
50/60Hz

- 35 W
- 70 W
- 150 W

27 VT 1151-R...
27 VT 1351-R...
27 VT 1651-R...



Ballast housing with conventional ballast
230V
50Hz

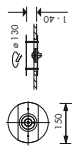
- 35 W
- 70 W
- 150 W

27 VT 1161-R...
27 VT 1361-R...
27 VT 1661-R...



Ceiling outlet box without ballast

17 CL 0011...-



Ceiling outlet box with ballast, also for sloping ceilings

17 CL 0005...-

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Suspended luminaires Fastenings Classic

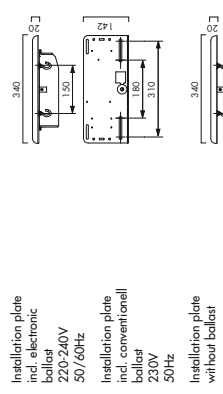
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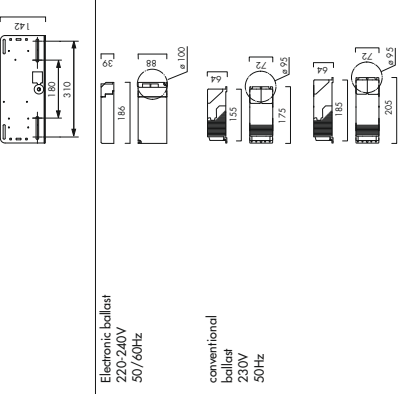
on a trapezoidal metal plate ceiling



Article numbers	Power
27 VT 1151-T	35 W
27 VT 1151-H	35 W
27 VT 1351-T	70 W
27 VT 1351-H	70 W
27 VT 1651-T	150 W
27 VT 1161-T	35 W
27 VT 1161-H	35 W
27 VT 1361-T	70 W
27 VT 1361-H	70 W
27 VT 1661-T	150 W
17 CL 0010	
17 CL 0004	

	Ball		Tulip		Bell		Minimum	
	HIT	E27	HIT	E27	HIT	E27	HIT	HIT
17 CL 0001-...								
17 CL 0004								
17 CL 0005-...								
17 CL 0010	•	•	•	•	•	•	•	•
17 CL 0011-...	•	•	•	•	•	•	•	•
17 CL 0012-...	•	•	•	•	•	•	•	•

+ Ballast



Ballast	Power	Article numbers
Electronic ballast	35 W	27 VT 1151
220-240V	70 W	27 VT 1351
50/60Hz	150 W	27 VT 1651
conventional ballast	35 W	27 VTE 1161
230V	70 W	27 VTE 1361
50Hz	150 W	27 VTE 1661

	Ball		Tulip		Bell		Minimum	
	HIT	E27	HIT	E27	HIT	E27	HIT	HIT
220-240 V, 50/60 Hz								
27 VTE 1151			•	•	•	•	•	•
27 VTE 1351			•	•	•	•	•	•
27 VTE 1651			•	•	•	•	•	•
27 VT 1151-H								
27 VT 1351-H								
27 VT 1151-R-...			•	•	•	•	•	•
27 VT 1351-R-...			•	•	•	•	•	•
27 VT 1651-R-...			•	•	•	•	•	•
27 VT 1151-T			•	•	•	•	•	•
27 VT 1351-T			•	•	•	•	•	•
27 VT 1651-T			•	•	•	•	•	•

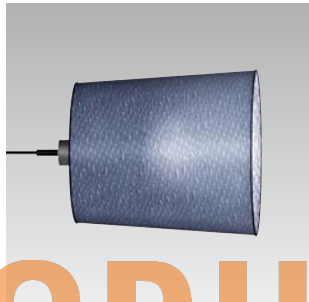
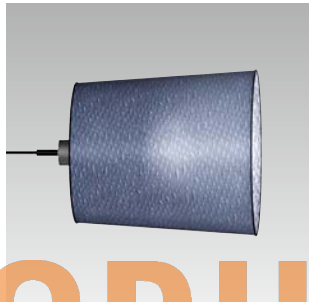
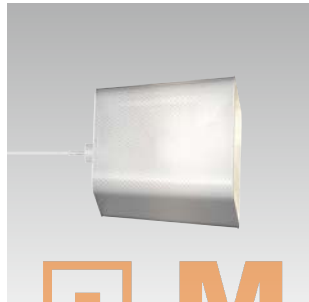
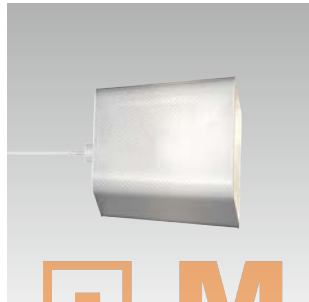
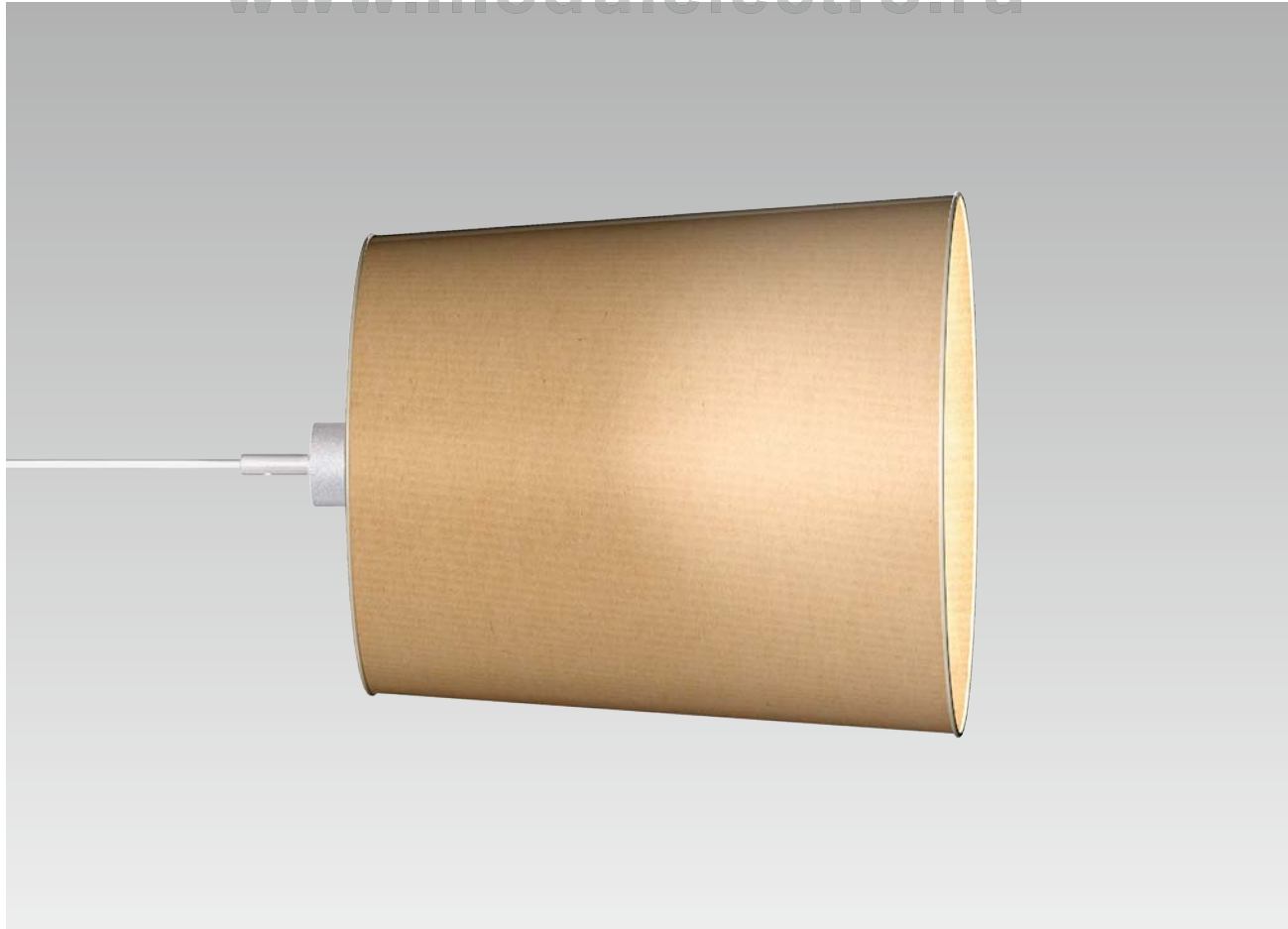
Order information

Article numbers ending on ... are to be supplemented by the colour code.
 Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

	Ball		Tulip		Bell		Minimum	
	HIT	E27	HIT	E27	HIT	E27	HIT	HIT
230 V, 50 Hz								
27 VTE 1161			•	•	•	•	•	•
27 VTE 1361			•	•	•	•	•	•
27 VTE 1661			•	•	•	•	•	•
27 VT 1161-H								
27 VT 1361-H								
27 VT 1161-R-...			•	•	•	•	•	•
27 VT 1361-R-...			•	•	•	•	•	•
27 VT 1661-R-...			•	•	•	•	•	•
27 VT 1161-T			•	•	•	•	•	•
27 VT 1361-T			•	•	•	•	•	•
27 VT 1661-T			•	•	•	•	•	•

Suspended luminaires Collection

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Collection, supplementing the Classic family, is a further series of products of suspended luminaires which likewise harmoniously unites the aspects of emotionality and technology. Particularly to be emphasised, however, is the possibility of individual design of the luminaires; as desired, the most varied materials can be used for the lamp shade. But there are also no limits to creativity for the basic shapes. "Create your own identity" is the product idea of Collection.

- Custom-made design
- Individualised luminaire design based on the customer's corporate identity; "Create your own design"
- Combination of decorative use of shapes and highly-efficient merchandise lighting
- Large variety of combinations of connection to ceiling, lamp technology and lampshade design

Suspended luminaires
Compendium Collection

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		Collection ↗ 230			
		Collection ↗ 231			
Lighting technology			HIT/G12 35W HIT/G12 70W		
Reflektortypen			VWFL		

		Lamp shades Collection ↗ 233			
		Fastenings Collection ↗ 236			

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Suspended luminaires Collection



- Lighting technology HIT/G12, TC1SE/E27, TCG-SE/E27
- for suspended mounting
- Suspended luminaire (one lamp) with lamp shade in different shades and surface finishes
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W; conventional ballast, 35(48)W, 70(88)W; TC1SE/E27, 230V, max. 22W; TCG-SE/E27, 230V, max. 18W
- Weight approx. 1.0 kg (without lamp shade)



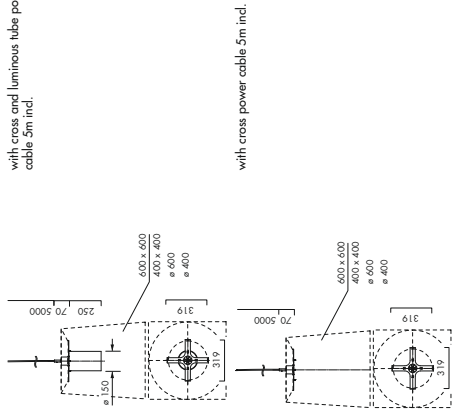
- Remote gear: HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red; E27: Connection of light fitting to mains by means of 3-pole terminal block

Lighting head for lamp shade, cubical and conical, one lamp

HIT/G12

with cross and luminous tube power cable 5m incl.

Article numbers
07 CMH 605...



TC1SE/E27

with cross power cable 5m incl.

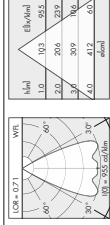
Article numbers
07 CMP 625...

+ Reflector
HIT/G12

WFL

Safety glass incl.

17 HH 210



+ Lamp

HIT/G12 35/70 W
TC1SE/E27 22 W
TCG-SE/E27 15/18 W

Information about lamps ↗ 388
Information about lamps ↗ 391
Information about lamps ↗ 391

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver
Ordering of a reflector: is only necessary for the version of the luminaire using the HIT/G12 lighting technology.
For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) and 410 (silver) the cable colour is black.
For fixing components see page ↗ 236
For lamp shade versions see page ↗ 233

Suspended luminaires Collection



- Lighting technology HIT/G12, TC1SE/E27, TCG-SE/E27
- for suspended mounting
- Suspended luminaire (two lamps) with lamp shade in different shades and surface finishes
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W; conventional ballast, 35(48)W, 70(88)W; TC1SE/E27, 230V, max. 22W; TCG-SE/E27, 230V, max. 18W
- Weight approx. 2.8 kg (without lamp shade)



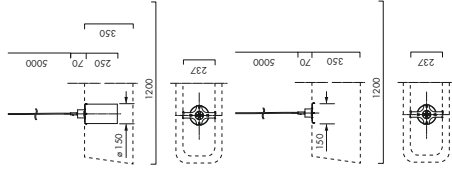
- Remote gear: HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red; E27: Connection of light fitting to mains by means of 3-pole terminal block

Lighting head for lamp shade, cubical, two lamps

HIT/G12

with traverse and luminous tube power cable 5m incl.

Article numbers
07 CMH 615...



TC1SE/E27

with traverse power cable 5m incl.

Article numbers
07 CMP 635...

+ Reflector
HIT/G12

WFL

Safety glass incl.

17 HH 210



+ Lamp

HIT/G12 35/70 W
TC1SE/E27 22 W
TCG-SE/E27 15/18 W

Information about lamps ↗ 388
Information about lamps ↗ 391
Information about lamps ↗ 391

Order information

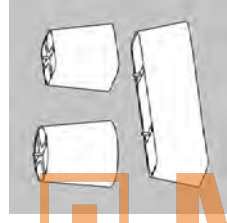
Article numbers ending on "... one to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite / ...-410 = silver
Ordering of a reflector is only necessary for the version of the luminaire using the HfT/G12 lighting technology.

For the version with the oblong lamp shade (1200mm) please order all lighting components and fixing components twice.

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) and -410 (silver) the cable colour is black.

For fixing components see page 236

For lamp shade versions see page 233



400x400/h= 435	600x600/h= 650	ø 400/h= 435	ø 600/h= 650	1200x350/h= 350

	17 SC 0140	17 SC 0240	17 SC 0340	17 SC 0440	17 SC 0540
	17 SC 0141	17 SC 0241	17 SC 0341	17 SC 0441	17 SC 0541
	17 SC 0142	17 SC 0242	17 SC 0342	17 SC 0442	17 SC 0542
	17 SC 0143	17 SC 0243	17 SC 0343	17 SC 0443	17 SC 0543
	17 SC 0144	17 SC 0244	17 SC 0344	17 SC 0444	17 SC 0544
	17 SC 0145	17 SC 0245	17 SC 0345	17 SC 0445	17 SC 0545
	17 SC 0146	17 SC 0246	17 SC 0346	17 SC 0446	17 SC 0546
	17 SC 0110	17 SC 0210	17 SC 0310	17 SC 0410	17 SC 0510
	17 SC 0131	17 SC 0231	17 SC 0331	17 SC 0431	17 SC 0531
	17 SC 0130	17 SC 0230	17 SC 0330	17 SC 0430	17 SC 0530

The colours of the printed images may differ from those of the originals.

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Suspended luminaires Lamp shades Collection

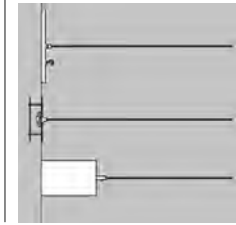
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	400x400/h= 435	600x600/h= 650	ø 400/h= 435	ø 600/h= 650	1200x350/h= 350
	Chinz chocolate 17 SC 0132	17 SC 0232	17 SC 0332	17 SC 0432	17 SC 0532
	Chinz nougat 17 SC 0137	17 SC 0237	17 SC 0337	17 SC 0437	17 SC 0537
	Chinz cappuccino 17 SC 0138	17 SC 0238	17 SC 0338	17 SC 0438	17 SC 0538
	Chinz grape 17 SC 0139	17 SC 0239	17 SC 0339	17 SC 0439	17 SC 0539
	Rouge (transparent) 17 SC 0161	17 SC 0261	17 SC 0361	17 SC 0461	17 SC 0561
	Smole (transparent) 17 SC 0162	17 SC 0262	17 SC 0362	17 SC 0462	17 SC 0562
	Aluminium silver 17 SC 0158	17 SC 0258	17 SC 0358	17 SC 0458	17 SC 0558
	Aluminium gold 17 SC 0159	17 SC 0259	17 SC 0359	17 SC 0459	17 SC 0559
	Mirror 17 SC 0160	17 SC 0260	17 SC 0360	17 SC 0460	17 SC 0560
	Kraft 17 SC 0107	17 SC 0207	17 SC 0307	17 SC 0407	17 SC 0507
	Lambok ash 17 SC 0154	17 SC 0254	17 SC 0354	17 SC 0454	17 SC 0554
	Lambok walnut 17 SC 0155	17 SC 0255	17 SC 0355	17 SC 0455	17 SC 0555
	Palma day 17 SC 0150	17 SC 0250	17 SC 0350	17 SC 0450	17 SC 0550
	Palma night 17 SC 0153	17 SC 0253	17 SC 0353	17 SC 0453	17 SC 0553
	Palma stone 17 SC 0151	17 SC 0251	17 SC 0351	17 SC 0451	17 SC 0551
	Palma sand 17 SC 0152	17 SC 0252	17 SC 0352	17 SC 0452	17 SC 0552
	Dahlia (transparent) 17 SC 0100	17 SC 0200	17 SC 0300	17 SC 0400	17 SC 0500
	Barcode (translucent) 17 SC 0109	17 SC 0209	17 SC 0309	17 SC 0409	17 SC 0509
	Space silver (transparent) 17 SC 0156	17 SC 0256	17 SC 0356	17 SC 0456	17 SC 0556
	Space gold (transparent) 17 SC 0157	17 SC 0257	17 SC 0357	17 SC 0457	17 SC 0557

The colours of the printed images may differ from those of the originals.

The colours of the printed images may differ from those of the originals.



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Article numbers ending on - are to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = antiréflexe / ...-410 = silver

Order information

	Article numbers
<p>on a concrete ceiling</p> <p>Ceiling canopy</p> <p>Ceiling box to house conventional or electronic ballast, without ballast</p>	<p>white black</p> <p>white</p> <p>17 CL 0002 17 CL 0003</p> <p>17 CL 0001-...</p>
<p>in plasterboard ceilings</p> <p>Installation plate incl. electronic ballast</p> <p>Installation plate incl. conventional ballast</p> <p>Installation plate without ballast</p>	<p>35 W 70 W</p> <p>35 W 70 W</p> <p>17 CL 0005-...</p> <p>27 VT 1151-H 27 VT 1351-H</p> <p>27 VT 1161-H 27 VT 1361-H</p> <p>17 CL 0004</p>
<p>+ Ballast</p> <p>Electronic ballast 220-240V 50/60Hz</p> <p>Conventional ballast 230V 50Hz</p>	<p>35 W 70 W</p> <p>35 W 70 W</p> <p>27 VTE 1161 27 VTE 1361</p>

Suspended luminaires Sino

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Its modular type of construction provides Sino with its enormous flexibility on the one hand due to the variable suspension height, on the other due to the option of the interchangeable reflectors and the continuously adjustable tilt-out angle. In addition, the bayonet mechanism means extreme ease of assembly and permits fast and simple handling on site. This suspended luminaire is a favourably priced lighting alternative, particularly for lighting large car showrooms or in the food and discounter sectors.

- Technical design
- Zoomable lighting: fine tuning for adjustment to individual room heights
- The modular structure, the 'plug and play' connector system in the electrical installation and the bayonet mechanism of the reflector make mounting easier and reduce the cost



Electrical connection by means of IEC power connector. Cable to mains left bare ended. Suspension system may be installed separately and before the light fitting itself. Suspension rod can be shortened on site.

- Lighting technology HST/GX12-1
- for suspended mounting
- Suspended luminaire with integral electronic ballast and interchangeable aluminium reflectors
- Change of beam angle by means of focus adjuster
- Connection data: electronic ballast, 220-240V, 50/60Hz, 100/110W
- Weight approx. 5.0 kg



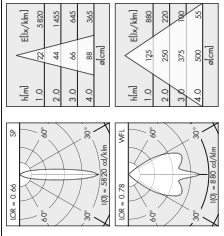
MODUL

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+	Suspension	Wire suspension	Wire suspension with ceiling box	Suspension rod with ceiling box	Article numbers	power cable 5m incl. grey power cable 5m incl. black	power cable 5m incl.	L = 2500mm, power cable incl.	Information about lamps → 388
					17 DS 0250 17 DS 0150				
					17 DS 1150...				
					17 PS 1125...				

Control gear housing	for wire suspension	for suspension rod	electronic ballast ind.	50 W 100 W	Article numbers
					07 SCT 6030... 07 SCT 7030...
					07 SCT 6040... 07 SCT 7040...
					17 HSM 510... 17 HSM 110...



+ Reflector HST/GX12-1

HIT/G12 70/100/150 W

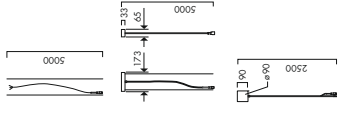
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver
For luminaire colour code -401 (white) the cable colour is grey; for colour code -402 (anthracite) and -410 (silver) the cable colour is black. White cable on request.

MODUL

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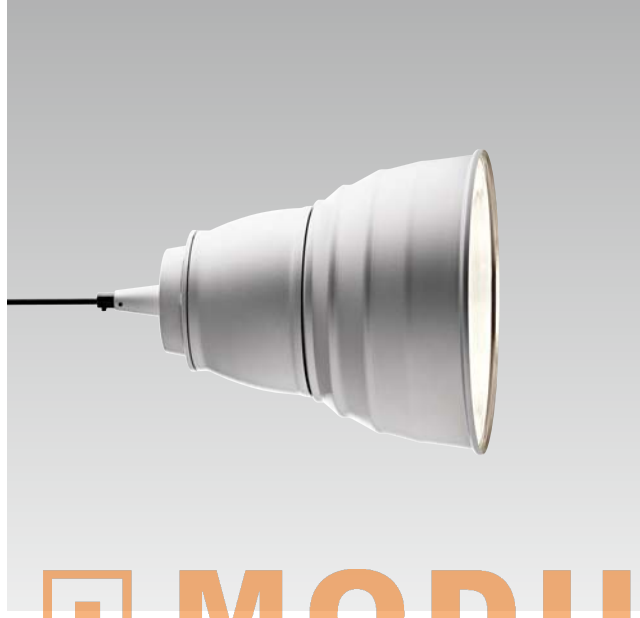
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+ Suspension	Wire suspension	power cable 5m incl. grey power cable 5m incl. black	Article numbers 17 DS 0250 17 DS 0150
	Wire suspension with ceiling box	power cable 5m incl.	17 DS 1150...
	Suspension rod with ceiling box	L = 2500mm; power cable incl.	17 PS 1125...
+ Lamp	H57/GX12:1 50/100 W		
Order information			
Article numbers ending on ... are to be supplemented by the colour code.			
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver			
For luminaire colour code -401 (white) the cable colour is grey; for colour code -402 (anthracite) and -410 (silver) the cable colour is black. White cable on request.			
Information about lamps: > 389			



Suspended luminaires Cupola

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The Cupola pendant luminaire combines powerful lighting from various heights with the sensitive design of shapes. Reflectors made of acrylics or aluminium guide the light and at the same time provide accentuation lighting within the room. Depending on the shape of the reflectors, narrow beam or wide wash lighting effects are obtained. Cupola is ideal for the lighting of large, high rooms, for stairways, halls and corridors.

- Classic design
- The classic among the suspended luminaires with a left look
- Acrylic reflector for distant effect, aluminium reflectors for dark / light effect
- High luminous efficiency for optimum efficiency

Suspended luminaires Compendium Cupola

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Cupola VPI
≥ 250



Cupola VKI
≥ 252

Lighting technology

HITP/RG12-2 70 W
HITP/RG12-2 150 W
TC-TEL/GX24q-2 18 W
TC-TEL/GX24q-3 26 W
TC-TEL/GX24q-3 32 W
TC-TEL/GX24q-4 42 W

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Fastenings
Cupola
≥ 254

Suspended luminaires Cupola VPI



- Lighting technology HIT/PG12.2, HIT/PGX12.2
- for suspended mounting
- Suspended luminaire with conventional ballast and aluminium reflector or reflector in ribbed acrylic plastic
- Luminaire may be used without safety glass
- Connection data: conventional ballast, 230V, 70(88)W, 150(170)W
- Weight 6.5 kg (integral gear), 5.5 kg (remote gear)

Gear integrated; Connection of light fitting to mains by means of 3-pole terminal block; Remote gear: Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 blue.



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Control gear housing	reflector acrylic incl.	reflector acrylic incl.	VWFL	reflector aluminium incl.	reflector aluminium incl.	SP	VWFL
integral gear							
remote gear							
integral gear							
remote gear							

Optional accessories	Information about lamps	Article numbers
HIFP/PG12.2 70 W HIFP/PGX12.2 150 W	Information about lamps > 389	17 ZS 3407... 17 ZS 3427...
Filter	UV filter	for acrylic reflector d = 315mm for aluminium reflector d = 315mm
Safety glass		for acrylic reflector d = 315mm for aluminium reflector d = 315mm
Decorative grill		for acrylic and aluminium reflector d = 315mm

Order information
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

For fixing components see page > 254

Suspended luminaires Cupola VKI



- Lighting technology TC-TEL/GX24q
- for suspended mounting
- Suspended luminaire with integral electronic ballast and aluminium reflector or reflector in ribbed acrylic plastic
- Luminaire may be used without safety glass
- Connection data: electronic ballast, 220-240V, 18(20)W, 26(28)W, 32(35)W, 42(45)W
- Weight 2.5 kg



Connection of light fitting to mains by means of 3-pole terminal block.



Control gear housing
electronic ballast
incl.

reflector acrylic
incl.

electronic ballast
incl.

reflector aluminium
incl.

d = 31.5mm, WFL
d = 31.5mm, WFL
d = 31.5mm, WFL
d = 31.5mm, WFL

Article numbers
07 VKI 0200...
07 VKI 1200...
07 VKI 2200...
07 VKI 3200...

d = 35.0mm, SP
d = 35.0mm, SP
d = 35.0mm, SP
d = 35.0mm, SP

07 VKI 0310...
07 VKI 1310...
07 VKI 2310...
07 VKI 3310...

d = 31.5mm, MFL
d = 31.5mm, MFL
d = 31.5mm, MFL
d = 31.5mm, MFL

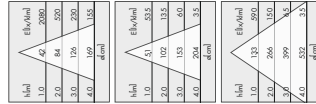
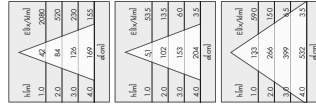
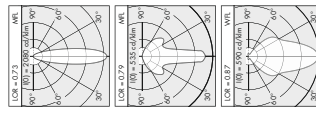
07 VKI 0210...
07 VKI 1210...
07 VKI 2210...
07 VKI 3210...

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antifractal / ...410 = silver
For fixing components see page 7 254

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Order information



* Lamp

TC-TEL/GX24q-2 18 W
TC-TEL/GX24q-3 26/32 W
TC-TEL/GX24q-4 42 W

Information about lamps 7 390
Information about lamps 7 391
Information about lamps 7 391

Optional accessories

Filter

UV filter

Safety glass

Decorative grill

for acrylic reflector
d = 31.5mm
for aluminium
reflector
d = 31.5mm
for acrylic reflector
d = 31.5mm
for aluminium
reflector
d = 31.5mm
for acrylic and alu-
minium reflector
d = 31.5mm

17 ZS 3407...
17 ZS 3407...
17 ZS 3405...
17 ZS 3425...
17 ZA 0306...

Suspended luminaires Fastenings Cupola



Fixing piece	Article numbers
Ceiling canopy	17 PS 1000...
Ceiling canopy for sloping ceilings	17 PS 3000...
Installation plate without ballast	17 PS 2000...
Suspensions	
Suspension rod with electric cable von 0,2-2,0m (in 0,1m-Schritten) white, anthracite or silver	Double-wire suspension with electric cable guiding points 2m, 4m, 6m, 8m black or white
Electric cable 2m, 4m, 6m, 8m black or white	
Cupola YPI	
integral gear	•
remote gear	•
Cupola YKI	
integral gear	•
remote gear	•

Order information

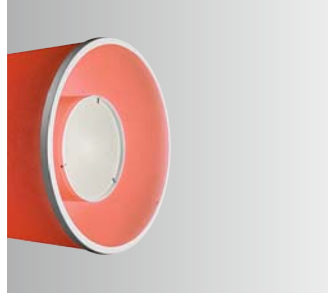
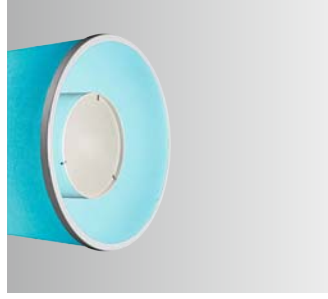
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

Please specify length and colour of suspension when ordering.

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Suspended luminaires Cone

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Sophisticated lighting engineering and decorative design characterise the pendant luminaire Cone. The conical shades in the different sizes are fitted with high-pressure metal halide lamps. Interchangeable pieces of coloured sheeting bathe the transparent plastic shades in the desired colour, the conical light beam remaining a neutral white in colour. Cone hence provides characteristic, emotional accentuation lighting.

- Elegant, classic luminaire design
- Suspended luminaire in large format that emotionalizes by means of colour
- Flexibility in colour design – simple change of the coloured film changes the visual effect
- Combination of visible light with distant effect and high-performance lighting technology without any adverse effect on colour rendition in the cone of light

Lighting technology	Cone CNC h 259	Cone CNC h 261
HIT/G12 3.5 W		
HIT/G12 7.0 W		
HIT/GB 5.35 W		
HIT/GB 5.70 W		
SP		
SP		
MFL		

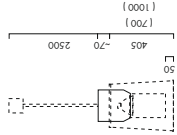
Type of reflector	Control gear housing	for suspension rod	conventional ballast incl.	35 W 70 W	Article numbers 07 CNC 121... 07 CNC 221...
					

Connection of light fitting to mains by means of 3-pole terminal block.
Suspension rod can be shortened on site.

- Lighting technology HIT/G12
- for suspended mounting
- Suspended luminaire with integral conventional ballast and white textile shade and interchangeable coloured plastic sheets
- Pure white light cone
- Connection data: conventional ballast, 230V, 35/48W, 70/88W
- Weight 12.0 kg

Lighting technology

Type of reflector

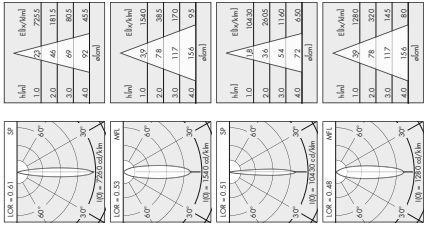


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+ Luminous tube with integral reflector

h = 400mm	h = 700mm
SP (17 IR 0001)	SP (17 IR 0002)
MFL (17 IR 0101)	MFL (17 IR 0102)



Safety glass incl.
Diffusor incl.

h = 400mm	h = 700mm
17 IR 0001	17 IR 0002
17 IR 0003	17 IR 0101
17 IR 0101	17 IR 0102
17 IR 0102	17 IR 0103

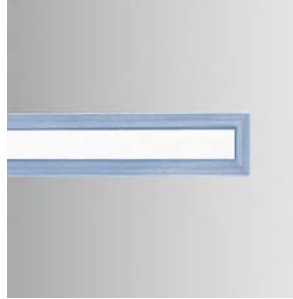
Orientation luminaires Advantages and Features

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LEDdot ↗ 267

- Geometrical, pure design
- Visible light in a flat, round structural shape for architectural design
- Homogeneous lighting effect



LEDstripe ↗ 268

- Geometrical, pure design
- Visible light in a flat, round structural shape for architectural design
- Homogeneous lighting effect
- Possible to combine the individual elements to form infinitely long structures

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Orientation luminaires LEDdot/LEDstripe



The luminaires of the product series LEDstripe and LEDdot are attractive design elements for interiors. As points or lines, the innovative products attract attention on presentation areas, provide help with orientation along corridors and in stairwells or draw attractive light patterns. The luminaires can be recessed into walls, ceilings or floors. They are available in blue, red, orange, green or white.

- Geometrical, pure design
- Visible light in a flat, round structural shape for architectural design
- Homogeneous lighting effect
- Possible to combine the individual elements to form infinitely long structures

Orientation luminaires LEDstripe LBL

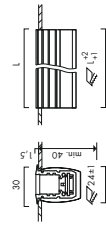


- Lighting technology LED
- Light line made of aluminum with approx. 72LED/m for use indoors
- opal optic with homogeneous luminance
- Profiles seamless sequencing
- not approved for traffic ways or use outdoors
- Connection data: 10V DC, 230V, 8.5W/m
- Weight 1.0 kg/m

Connection of LED to supply unit by means of 2-pole cable.



Light line



Article numbers
 03 LBL 61A0 red
 03 LBL 61A1 orange
 03 LBL 61A2 green
 03 LBL 61A3 blue
 03 LBL 61A4 white
 03 LBL 61C0 red
 03 LBL 61C1 orange
 03 LBL 61C2 green
 03 LBL 61C3 blue
 03 LBL 61C4 white
 03 LBL 61D0 orange
 03 LBL 61D1 green
 03 LBL 61D2 blue
 03 LBL 61D3 white
 03 LBL 61D4 red
 03 LBL 61E0 orange
 03 LBL 61E1 green
 03 LBL 61E2 blue
 03 LBL 61E3 white
 03 LBL 61E4 red
 03 LBL 61H0 orange
 03 LBL 61H1 green
 03 LBL 61H2 blue
 03 LBL 61H3 white
 03 LBL 61H4 red
 03 LBL 61L0 orange
 03 LBL 61L1 green
 03 LBL 61L2 blue
 03 LBL 61L3 white
 03 LBL 61L4 white

l = 64mm, 4 LED
 0,5 W
 l = 232mm, 16 LED
 2 W
 l = 456mm, 32 LED
 4 W
 l = 904mm, 64 LED
 8 W
 l = 1520mm, 108 LED
 13,5 W
 l = 2248mm, 160 LED
 20 W

+ Ballast

Supply unit

prim. 100-130/200-250V AC, sek. 50/60Hz
 prim. 220-240V AC, sek. 10V DC, 0/50/60Hz
 prim. 230-240V AC, sek. 10V DC, 0/50/60Hz

120 W
 50 W
 12 W

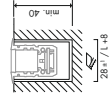
15 LE 9120
 15 LE 0058
 15 LE 0023

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Optional accessories

Fixing clips
 Mounting duct



5 items per unit

l = 75mm
 l = 245mm
 l = 470mm
 l = 915mm
 l = 1530mm
 l = 2260mm

Article numbers
 17 EF 1000
 17 BK 0011
 17 BK 0012
 17 BK 0013
 17 BK 0014
 17 BK 0015
 17 BK 0016

End cap



17 BS 0001-150

Order information

Versions of the luminaire in other colours available on request.

Systems Advantages and Features

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Lightstripe 2275 New: with LED

- Graphic use of shapes
- Extensive, modular luminaire system for universal lighting tasks: ambient lighting, accent lighting, wallwashers, emergency lighting, loudspeakers without the use of tools
- Extensible to form an infinitely long lighting duct system
- Maximum flexibility, since it can at any time be adjusted to changed space situations
- Advantages and flexibility of a power track concept were transferred to a recessed system
- Design networking with Brick and Cardo



Cardo 307 LED under development

- Classic, gimbal-mounted design
- Modular system with various overall sizes
- Variable use possibility
- Formal networking with the systems Lightstripe, Brick and Cardo round
- Favourably priced alternative to the Lightstripe system



Adlight 7319

- Straight-line, pure design
- Strip lighting system with interfaces for luminaires and merchandizing elements for individualized branding
- Combination of power track, direct/indirect lighting, ambient/accent lighting, decorative lighting, control system and merchandizing




Cardline 7333

- Basic design
- Strip lighting system as a quick-mounting system
- Connection of the profiles without the use of tools
- Power track profile permits the use of all of the spotlights in the Ansoorg range



Vario 7339

- Architectural design
- Linear profile system designed as recessed, surface-mounted or suspended version
- Reinforces the impression of space and emphasizes the axes
- Abundant selection of functional elements for every lighting task



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	Lightstripe ↗ 275	Cardo ↗ 307	Adlight ↗ 319	Cordline ↗ 333	Vario ↗ 339
Mounting	• for recessed mounting • for ceiling mounting • for suspended mounting				
Lighting technology	OTL12/GY6.35 max. 90 W OTL4/G8.5 max. 60 W OR-CBC51/GU5.3 max. 50 W CPAR16/GU10 max. 50 W HIT/G12 35 W HIT/G12 70 W HIT/G12 100 W HIT/G12 150 W HIT/G8.5 20 W HIT/G8.5 35 W HIT/G8.5 70 W HITDE/RX7s 70 W HITDE/RX7s 150 W TL6/G5 35 W TL6/G5 39 W TL6/G5 49 W TC-DBEL/G24q-2 2 x 18 W TC-DBEL/G24q-3 2 x 26 W TC-SBL/267 11 W TC-L/26311 36 W TC-L/26311 55 W LED				
Type of reflector	SSP SP WFL FL WFL WWFL				

• with LED
○ LED under development

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MODULO

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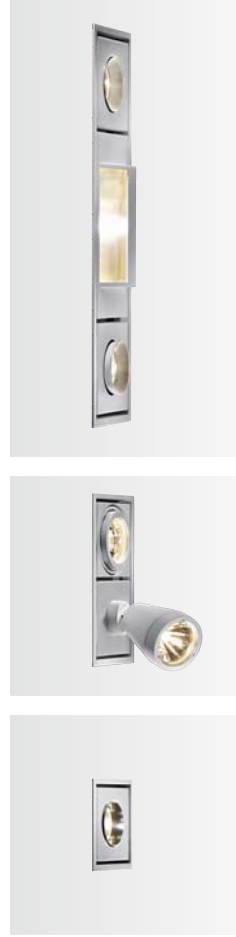
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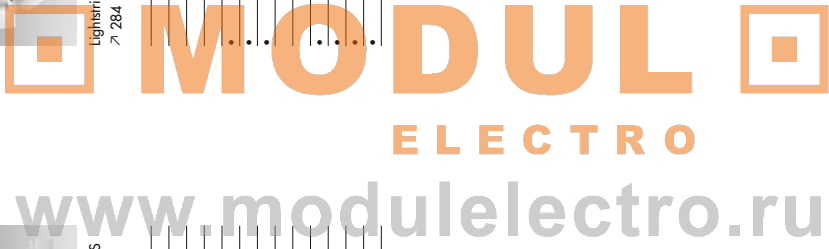
Lightstripe is a modular luminaire system. The fitting frames are available in various lengths or for arrangement in rows of infinite length for the formation of linear structures of various lengths. The modular panels are equipped with different types of luminaires and are fastened in the fitting frame by means of a suspension mechanism, without the help of tools. All of the panels can be replaced at any time and their variants are designed in such a way that they flexibly perform every lighting task.

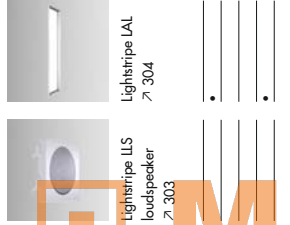
- Graphic use of shapes
- Extensive, modular luminaire system for universal lighting tasks: ambient lighting, accent lighting, wallwashers, emergency lighting, loudspeakers
- Advantages and flexibility of a power track concept without the use of tools
- Extensible to form an infinitely long lighting duct system
- Maximum flexibility, since it can at any time be adjusted to changed space situations
- Advantages and flexibility of a power track concept were transferred to a recessed system
- Design networking with brick and Condo

New: with LED



	Lightstripe ILS ↗ 282	Lightstripe ILS blank panel ↗ 283	Lightstripe IBS ↗ 284	Lightstripe IBT ↗ 286	Lightstripe IBE ↗ 287	Lightstripe IBL ↗ 288	Lightstripe LCS ↗ 289	Lightstripe ICT ↗ 290	Lightstripe ICE ↗ 291
Mounting	•								
Lighting technology	for recessed mounting GTL/P12/GY6.35 max. 90 W G114/G8.5 max. 60 W HIT/G8.5 20 W HIT/G8.5 35 W HIT/G8.5 70 W LED				•			•	•
Type of reflector	SSP SP WFL FL			•		•		•	•
						•			





Lightstripe LLS
emergency light
➔ 301



Lightstripe LLS
emergency light
LED
➔ 302



Lightstripe LLS
loudspeaker
➔ 303



Lightstripe LAL
➔ 304

for recessed mounting	
GP/AR16/GU10 max. 50 W	
TCL/ZG11 55 W	
LED	•

• with LED

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Mounting	
Lighting technology	



- Fitting frame system with specified modules (1 to 4 modules) or for the formation of rows of infinite length
- Fitting of the various function panels without the use of tools, combining fixtures as desired
- Weight from 0.3 to 0.7 kg



- Blank panel (1 or 2 modules)
- Fitting of the function panel without the use of tools
- Weight 0.2 kg / 0.4 kg



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Fitting frame with specified modules

1 module		Article numbers 06 LLS 0010...
2 modules		06 LLS 0020...
3 modules		06 LLS 0030...
4 modules		06 LLS 0040...
		06 LLS 0021... 06 LLS 0031... 06 LLS 0032... 06 LLS 0042...

Fitting frame for the formation of rows of infinite length

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-fractile / ...410 = silver

The length of the ceiling cut-out depends on the number of modules in the frame; one module: l = 141 mm. The length of the ceiling cut-out is calculated with the following formula: number of modules x 141 mm + 15mm. The overall length (external dimension) is calculated with the formula: number of modules x 141 mm + 30mm.

Blank-panel

1 module		Article numbers 06 LLS 0100...
2 modules		06 LLS 0200...

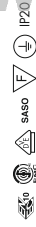
Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-fractile / ...410 = silver



- Lighting technology HIT/G8.5
- Function panel (L module) with spotlight, tilting and turning
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic ballast: 20(24)W, 35(42)W, 70(80)W
- Weight 1,0 kg

Connection of light fitting to ballast by means of Wieland safety plug system ST1B/3, incl.



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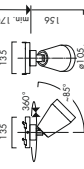
Function panel with spotlight

20/35/70 W

Article numbers
06 LBS5 65X...

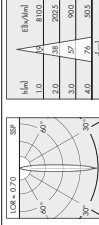
Optional accessories

Glare reduction cylindrical Filter



+ Reflector
HIT/G8.5

SSP



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HIB 810-...
17 HIB 810-SN...
17 HIB 810-GD...
17 HIB 810-RS...
17 HIB 810-BD...

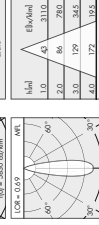
SP



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HB 610-...
17 HB 610-SN...
17 HB 610-GD...
17 HB 610-RS...
17 HB 610-BD...

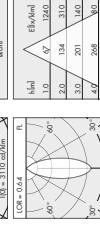
MFL



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HB 410-...
17 HB 410-SN...
17 HB 410-GD...
17 HB 410-RS...
17 HB 410-BD...

FL



Safety glass incl.
Mood-Filter Sun incl.
Mood-Filter Gold incl.
Mood-Filter Rose incl.
Mood-Filter Bordeaux incl.

17 HB 210-...
17 HB 210-SN...
17 HB 210-GD...
17 HB 210-RS...
17 HB 210-BD...

+ Ballast
HIT/HIDE

Electronic ballast
HIT/HIDE

220-240V
50/60Hz

20 W
35 W
70 W

Article numbers
27 VT 1051-5P00
27 VTE 1121
27 VTE 1321

+ Lamp

HIT/G8.5 20/35/70 W

Information about lamps ↗ 388
As a matter of principle, Ansoerg recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Article numbers
17 AS 2000
17 GL 1021
17 GL 1023
17 GL 1022
17 GL 1024
17 GL 1020
17 GL 1010
17 WR 0003

Coloured glass filter
blue
yellow
green
orange
red

UV filter

Honeycomb grid

The use of the colour filters blue, green is only permitted for the operation of the luminaires in the 20W and 35W versions.
The use of the colour filters yellow, orange, red is only permitted for operation in the 20W, 35W and 70W versions.

Article numbers ending on -...401 = white / ...402 = antifractal / ...410 = silver

Order information



- Lighting technology GT14/G8.5
- Function panel (1 module) with spotlight, tilting and turning
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 60W
- Weight 1.0 kg



- Lighting technology GT12/GY6.35
- Function panel (1 module) with spotlight, tilting and turning
- Fitting of the function panel without the use of tools
- Connection data: electronic transformer, 12V, max. 90W
- Weight 1.0 kg

Connection of light fitting to ballast by means of 2-pole terminal block.



Function panel with spotlight

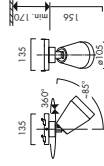
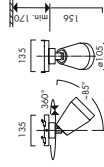
max. 60 W

Article numbers
06 LBT5 05X...

Function panel with spotlight

max. 90 W

Article numbers
06 BES 05X...



+ Reflector
GT14/G8.5

	SSP	SP	MFL	FL
17 HB 810...				
17 HB 610...				
17 HB 410...				
17 HB 210...				

Safety glass incl.

17 HB 810...

+ Reflector
GT12/GY6.35

	SSP	SP	MFL	FL
17 HB 810...				
17 HB 610...				
17 HB 410...				
17 HB 210...				

Safety glass incl.

17 HB 810...

+ Ballast

Electronic low voltage transformer GT12/GY6.35/50/65 W	230-240V/12V, 50/60Hz	20-105 VA	15 NE 3018
GT14/G8.5 45/60 W	Information about lamps > 392		

230-240V/12V,
50/60Hz

15 NE 3018

+ Lamp

Glare reduction cylindrical	Information about lamps > 392		
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Information about lamps > 392

17 AS 2000

Optional accessories

17 AS 2000

Article numbers ending on ... are to be supplemented by the colour code.

17 AS 2000

Colour code: ...401 = white / ...402 = anti fracte / ...410 = silver

Order information

Article numbers ending on ... are to be supplemented by the colour code.

Colour code: ...401 = white / ...402 = anti fracte / ...410 = silver

Order information



www.modulelectro.ru



- Lighting technology GT14/G8.5
- Function panel (1 module) with recessed spotlight, gimbal mounted
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 60W
- Weight 1.0 kg



- Lighting technology GT12/GY6.35
- Function panel (1 module) with recessed spotlight, gimbal mounted
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 90W
- Weight 1.0 kg

Connection of light fitting to ballast by means of 2-pole terminal block.

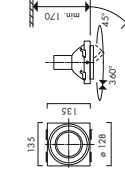
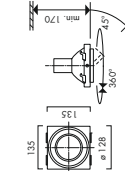


Function panel with recessed spotlight

Function panel with recessed spotlight

max. 60 W

max. 90 W



Article numbers
06 LCTS 05X...

Article numbers
06 LCES 05X...

+ Reflector
GT14/G8.5

+ Reflector
GT12/GY6.35

17 HB 810...

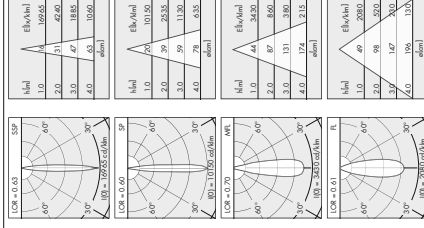
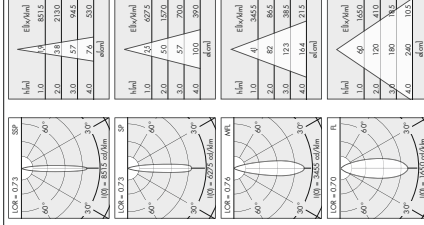
17 HB 810...

Safety glass incl.

Safety glass incl.

SSP

SSP

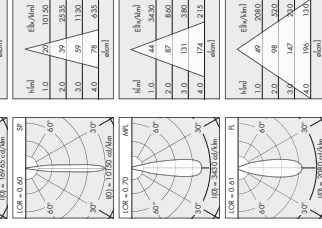
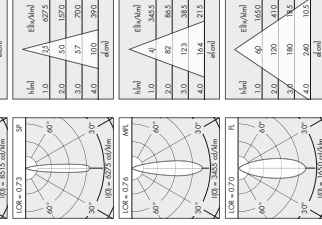


SP

SP

Safety glass incl.

Safety glass incl.

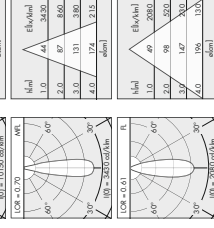
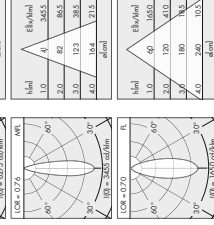


MFL

MFL

Safety glass incl.

Safety glass incl.



FL

FL

Safety glass incl.

Safety glass incl.



+ Ballast

+ Ballast

15 NE 3018

15 NE 3018

230-240V/12V,
50/60Hz

230-240V/12V,
50/60Hz

Electronic low voltage transformer
GT12/GY6.35/50/65 W

Electronic low voltage transformer
GT12/GY6.35/50/65 W

+ Lamp

+ Lamp

Information about lamps > 392

Information about lamps > 392

GT12/GY6.35/20/35/50/75/90 W

GT12/GY6.35/20/35/50/75/90 W

Optional accessories

Optional accessories

17 AS 2000

17 AS 2000

Order information

Article numbers ending on ... are to be supplemented by the colour code.

Information about lamps > 392

Information about lamps > 392

Colour code: ...401 = white / ...402 = anti-fracture / ...410 = silver

Article numbers ending on ... are to be supplemented by the colour code.

Colour code: ...401 = white / ...402 = anti-fracture / ...410 = silver

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MODULO

ELECTRO



- Lighting technology HIT/G8.5
- Function panel (1 module) with downlight, flush reflector
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic ballast, 35(42)W, 70(80)W
- Weight 0.6 kg



- Lighting technology QT14/G8.5
- Function panel (1 module) with downlight, flush reflector
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 60W
- Weight 0.6 kg

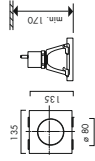
Connection of light fitting to ballast by means of 2-pole terminal block.



Function panel with downlight

35/70 W

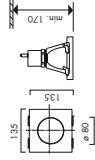
Article numbers
06 LMCB 6XX...



Function panel with downlight

max. 60 W

Article numbers
06 LMHB 0XX...

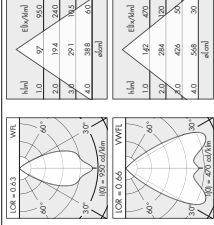


+ Reflector
HIT/G8.5

WFL

Safety glass incl.

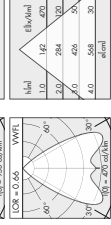
17 HK 610



WVFL

Safety glass incl.

17 HK 410



+ Ballast

Electronic ballast
HIT/HFDE

220-240V,
50/60Hz

35 W
70 W

27 VTE 1121
27 VTE 1321

Information about lamps: 7 388

+ Lamp

HIT/G8.5 35/70 W

Information about lamps: 7 388

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anti-fracture / ...410 = silver

www.modulelectro.ru

MODULO ELECTRO



- Lighting technology LED
- Function panel (1 module) with downlight
- Downlight with integral flush reflector FL, WFL or VWFL
- Fitting of the function panel in the frame without the use of tools
- Connection data: supply unit, 23(26)W, 3000K or 4000K, 1000lm, CRI > 80, 700mA
- Weight 1.2 kg

Connection of LED to supply unit by means of 2-pole cable.

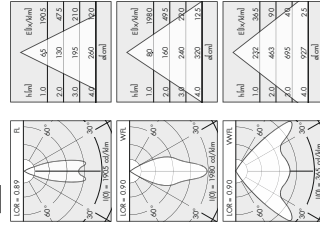
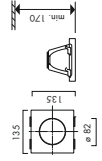


Function panel with downlight and integral reflector

Article numbers
48 SK 09204-01-...
48 SK 09204-02-...
48 SK 09204-03-...
48 SK 09204-04-...
48 SK 09204-05-...
48 SK 09204-06-...

23 W/3000 K
23 W/3000 K
23 W/3000 K
23 W/4000 K
23 W/4000 K
23 W/4000 K

FL
WFL
VWFL
FL
WFL
VWFL



LED

WFL

VWFL

+ Ballast

Supply unit

110-240V
50-60Hz
dimming
1-10V
220-240V
50-60Hz

max. 25 W

17 LE 7013

max. 33 W

17 LE 7012

Lamp

LED

Order information

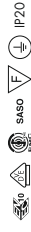
Article numbers ending on "... are to be supplemented by the colour code.
Colour code: ...402 = anthracite / ...410 = silver / ...401 = white

Version of the product in other colour temperatures on request.



- Lighting technology HIT/G8.5
- Function panel (1 module) with downlight, overlying reflector
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic ballast, 35(42)W, 70(80)W
- Weight 0.6 kg

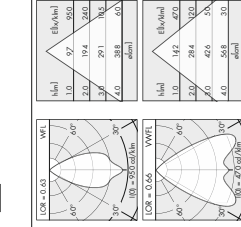
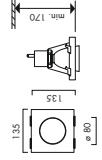
Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.



Function panel with downlight

Article numbers
06 IMCA 6XX...

35/70 W



WFL

VWFL

+ Reflector
HIT/G8.5

Safety glass incl.

17 HK 610

Safety glass incl.

17 HK 410

+ Ballast

Electronic ballast
HIT/HITDE

35 W
70 W

27 VIE 1121
27 VIE 1321

+ Lamp

HIT/G8.5 35/70 W

Information about lamps → 388

Order information
Article numbers ending on "... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

MODULO ELECTRO
www.modulelectro.ru



- Lighting technology QT14/G8.5
- Function panel (1 module) with downlight, overlying reflector
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 60W
- Weight 0.6 kg

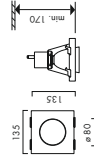
Connection of light fitting to ballast by means of 2-pole terminal block.



Function panel with downlight

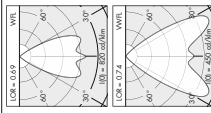
Article numbers
06 LMHA 0XX...

max. 60 W



+ Reflector
QT14/G8.5

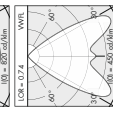
WFL



Safety glass incl.

17 HKK 610

WWFL



Safety glass incl.

17 HKK 410

+ Ballast

Electronic low voltage transformer
QT1P12/QR-CBC/QT1.4

230-240V/12V,
50/60Hz

15 NE 3018

+ Lamp

QT14/G8.5 45/60 W

Information about lamps > 392

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver



- Lighting technology HIT/G8.5, TC-SELZG7, TC-L/2G11
- Function panel (1, 2 or 3 modules) with downlight (frameless, opal acrylic glass tile)
- Downlight with washer effect, symmetrical light distribution
- Fitting of the function panel without the use of tools
- Connection data: HIT/G8.5: electronic ballast, (1x) 20/24W, 35/42W; TC-SEL/ZG7, (2x) 11/25W; TC-L/2G11: (1x) 36/38W
- Weight 1.3 kg (HIT), 2.0 kg (TC-SEL), 2.5 kg (TC-L)

HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST18/3 red.

TC-SEL/TC-L: Connection of light fitting to mains by means of Wieland safety plug system GST18/3.

TC-L: Mount a maximum of 2 modules directly one behind the other.

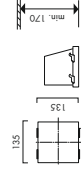


Function panel with opal acrylic glass tile

Article numbers
06 LD 600

HIT/G8.5
20/35 W

without ballast



1 module

electronic ballast
incl.

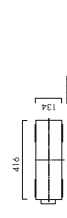


2 modules

TC-SEL/ZG7,
2 x 11 W

06 LD 2010

electronic ballast
incl.



3 modules

TC-L/2G11 EVG,
36 W

06 LD 3010

+ Ballast

Electronic ballast
HIT/HITDE

220-240V,
50/60Hz

20 W
35 W

27 VT 051-5F00
27 VE 1121

+ Lamp

HIT/G8.5 20/35 W
TC-SEL/ZG7 11 W
TC-L/2G11 36 W

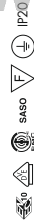
Information about lamps > 388
Information about lamps > 390
Information about lamps > 390

www.modulelectro.ru

MODULO ELECTRO



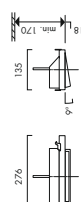
- Lighting technology HIT/G12
- Function panel (2 modules) with wall washer with spotlighting to directly below the ceiling
- asymmetrical light distribution
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic ballast, 35(42)W, 70(80)W, 100(109)W, 150(163)W;
- conventional ballast, 35(48)W, 70(88)W, 150(170)W
- Weight 1,2 kg



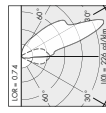
Function panel with wall washer and integral reflector

HIT/G12

Diffuser incl.



ELU/m²	100	150	200	250	300	350
0.5	1.0	1.5	2.0	2.5	3.0	3.5
1.0	2.0	3.0	4.0	5.0	6.0	7.0
1.5	3.0	4.5	6.0	7.5	9.0	10.5
2.0	4.0	6.0	8.0	10.0	12.0	14.0
2.5	5.0	7.5	10.0	12.5	15.0	17.5
3.0	6.0	9.0	12.0	15.0	18.0	21.0
3.5	7.0	10.5	14.0	17.5	21.0	24.5
4.0	8.0	12.0	16.0	20.0	24.0	28.0
4.5	9.0	13.5	18.0	22.5	27.0	31.5
5.0	10.0	15.0	20.0	25.0	30.0	35.0



+ Ballast

Electronic ballast
HIT/HIT-DE

220-240V
50/60Hz

35 W
70 W
100 W
150 W

27 VTE 1121
27 VT 1321
27 VT 1521-5P00
27 VT 1621

Conventional ballast
HIT/HIT-DE

230V 50Hz
240V 50Hz

35 W
70 W
100 W
150 W

27 VTE 1161
27 VTE 1361
27 VTE 1661
27 VT 1164
27 VT 1364
27 VT 1664

+ Lamp

HIT/G12 35/70/100/150 W

Information about lamps > 388
As a matter of principle, Ansoerg recommends the use of mood filters, in combination with HIT lamps having the colour temperature 930.

Optional accessories

Filler

Mood-Filter Sun
Mood-Filter Gold

17 GL 3502
17 GL 3503

Order information

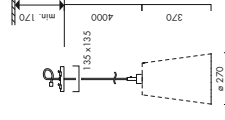
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite / ...-410 = silver



- Lighting technology HIT/G8.5
- Function panel (1 module) with suspended luminaire (downlight)
- coloured semi-transparent lamp shade, pure white light cone
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic ballast, 35(42)W, 70(80)W
- Weight 1,7 kg



Function panel with suspended downlight



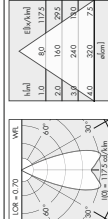
cable suspension
4m incl.

Article numbers
06 LMMG 65K...

35/70 W

+ Reflector
HIT/G8.5

WFL



Safety glass incl.

17 HK-610

+ Lamp shade



blue
yellow
green
orange
red
white

+ Ballast

Electronic ballast
HIT/HIT-DE

220-240V,
50/60Hz

35 W
70 W

27 VT 1151
27 VT 1351

+ Lamp

HIT/G8.5 35/70 W

Information about lamps > 388

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...-401 = white / ...-402 = anthracite / ...-410 = silver

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.



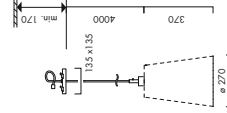
- Lighting technology QT14/C8.5
- Function panel (1 module) with suspended luminaire (downlight)
- coloured semi-transparent lamp shade, pure white light cone
- Fitting of the function panel in the frame without the use of tools
- Connection data: electronic transformer, 12V, max. 60W
- Weight 1,7 kg



Connection of light fitting to ballast by means of 2-pole terminal block.

Function panel with suspended downlight

cable suspension
4m incl.

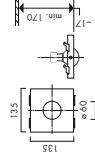


Article numbers
06 LMTG 05X...

max. 60 W



Function panel with emergency light



Article numbers
06 LLS 0101...

max. 50 W



- Lighting technology QPARI 6/GZ10/GUI10
- Function panel (1 module) with emergency light
- Fitting of the function panel in the frame without the use of tools
- Connection data: 230V, max. 50W, 40°
- Weight 0,5 kg



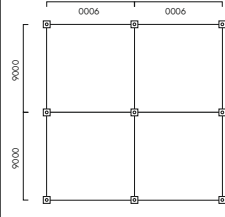
Connection of light fitting to mains by means of 3-pole terminal block.

Lamp

QPARI 6/GUI10 50 W

Information about lamps ↗ 393

Planning information



Light calculation on the basis of DIN EN 1838: 1 lux, minimum illuminance, Uniformity < 1:40, Rated service time 1 h, Room height 3 m. Planning notes: 1 emergency light for approx. 81 sqm, at 50 W, max. grid size 9 x 9 m.

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

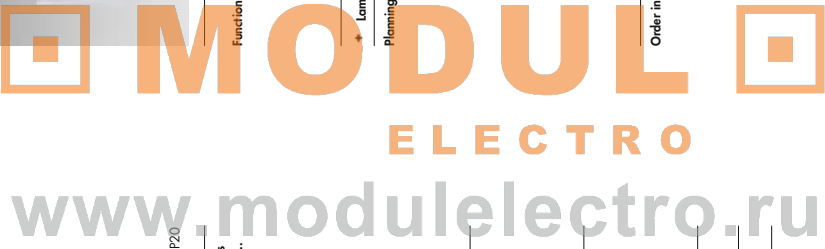
Order information

+ Reflector QT14/C8.5	WFL	Safety glass incl.	17 HIK 610
+ Lamp shade			17 SC 0013 17 SC 0015 17 SC 0014 17 SC 0017 17 SC 0016 17 SC 0018
+ Ballast	Electronic low voltage transformer QTLP12/QR-CBC/QT14	230-240V/12V, 50/60Hz	15 NE 3041
+ Lamp	QT14/C8.5 45/60 W	Information about lamps ↗ 392	

Article numbers ending on ... are to be supplemented by the colour code.

Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

For luminaire colour code -401 (white) the cable colour is white, for colour code -402 (anthracite) the cable colour is black.





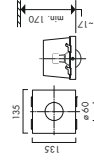
- Lighting technology LED
- Function panel (1 module) with emergency light, optional with or without a battery pack
- Fitting of the function panel in the frame without the use of tools
- Connection data: 230V, LED 12V, 9W, accumulator NiMH 12V
- Weight 0.95 kg

Module including power pack. Connection by client by means of Wieland safety plug system GST1813. Input voltage: AC 100-264V / DC120-240V.



Function panel with emergency light LED

without battery pack	6 W
battery pack incl.	6 W



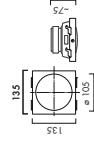
Article numbers
06 LLS 0108...
06 LLS 0107...



- Function panel (1 module) with wide-band loudspeaker
- Fitting of the function panel in the frame without the use of tools
- Technical specifications loudspeaker: 70-18.000 Hz, 40W, 8 ohms, connection lead min. 2x0.75 mm²
- Weight 1.0 kg



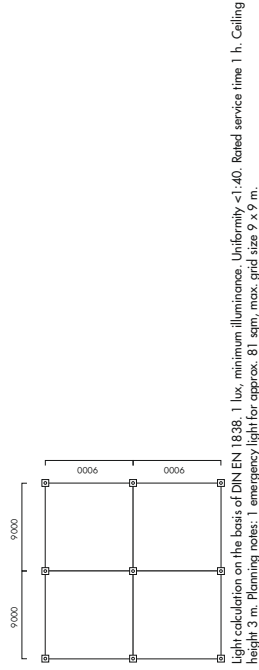
Function panel with wide-band loudspeaker



Article numbers
06 LLS 0103...
06 LLS 0106...

For the use of < 6 loudspeakers
For the use of > 6 loudspeakers transformer for 100 V units incl.

Planning information



Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver

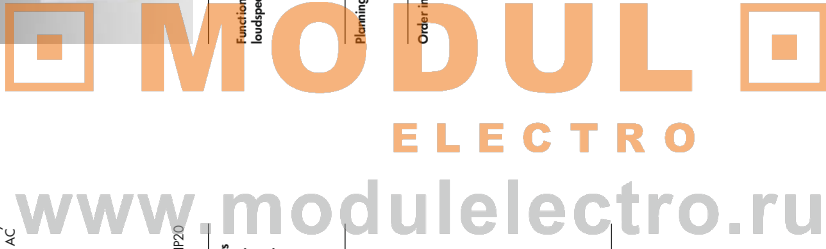
Order information

Planning information

1 loudspeaker per 20 sqm with a standard room height of 3 m. Acoustic characteristics designed for "hard floors", loudspeaker for "soft floors" on request. The cash desk area should not be covered by the public address system. According to the Employee Protection Act a sound level of more than 85 dBA is not permitted.

Order information

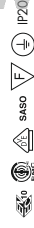
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver





- Lighting technology TC-L/2G11
- Downlight (ambient light, length equivalent to quadruple module) with integral electronic ballast and frosted glass
- Fitting of the luminaire without the use of tools
- Connection data: electronic ballast, 220-240V, 55/62W
- Weight 2,0 kg

Connection of light fitting to mains by means of Wieland safety plug system GST1813.

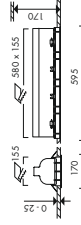


Recessed luminaire with integral reflector

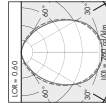
electronic ballast incl.

55 W

Article numbers
06 LAL 2010...



TC-L/2G11



COB 0.60 Beam	lx/m²	lx/m²	lx/m²
1.0	208	260	325
2.0	104	130	162.5
3.0	69.3	87	108.3
4.0	52	65	81.25

COB 270 Beam	lx/m²	lx/m²	lx/m²
1.0	272	340	425
2.0	136	170	212.5
3.0	90.7	113	141.7
4.0	68	85	106.25

• Lamp TC-L/2G11 55 W

Information about lamps ↗ 390

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code ...401 = white / ...402 = anthracite / ...410 = silver

MODUL

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MODULO

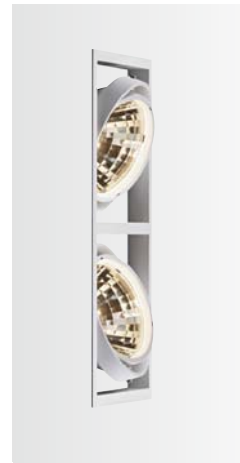
ELECTRO

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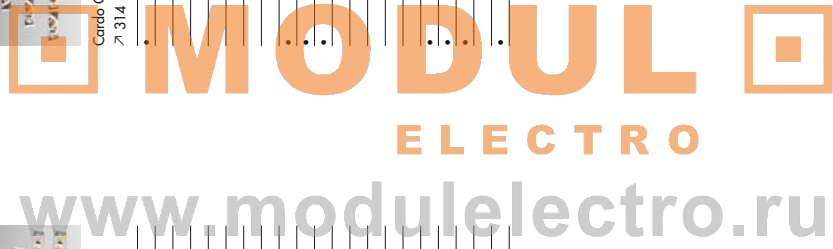
Cardo is a compact, inexpensive recessed luminaire series equipped optionally with one, two or three gimbal-mounted spotlight heads. The combination of different lighting technologies, reflectors and types of luminaires permits customised solutions for the most varied tasks and requirements in lighting planning. Accessories available are Mood Filter, honeycomb grids and various coloured filters that extend the range of applications of the luminaire system in a large variety of ways.

LED, under development

- Classic, gimbal-mounted design
- Modular system with various overall sizes
- Variable use possibility
- Formal networking with the systems Lightstripe, Brick and Cardo round
- Favourably priced alternative to the Lightstripe system

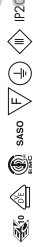


	Cardo CLG ↗ 310	Cardo CML ↗ 312	Cardo CLC ↗ 314	Cardo CDC ↗ 316	Cardo CHM ↗ 317
Mounting					
Lighting technology	for recessed mounting				
	GH12/GV6.35 max. 90 W				
	GH4/G8.5 max. 60 W				
	GR-CBC3T/GU5.3 max. 50 W				
	HIT/G12 35 W				
	HIT/G12 70 W				
	HIT/G12 100 W				
	HIT/G8.5 20 W				
	HIT/G8.5 35 W				
	HIT/G8.5 70 W				
	HIT/DE/RX7* 70 W				
	HIT/DE/RX7* 150 W				
	TC-DEL/G24q-2 2 x 18 W				
	TC-DEL/G24q-3 2 x 26 W				
Type of reflector	SSP				
	SP				
	WFL				
	FL				
	WFL				





- Lighting technology HIT/G12, QT-IP12/GY6.35
- for recessed mounting
- Recessed spotlight with one, two or three gimbal-mounted spotlights
- tilting and turning
- Connection data: HIT/G12, electronic ballast, 35(42)W, 70(80)W, 100(109)W; conventional ballast, 35(48)W, 70(88)W, QT-IP12/GY6.35, electronic transformer, 12V, max. 90W
- Weight 1.3 kg (1 module), 2.5 kg (2 modules), 3.7 kg (3 modules)



Recessed spotlight

Article numbers	HIT	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 6XX...	QT-IP12	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 0XX...	HIT	HIT	HIT	HIT
04 CLG 06X...	QT-IP12	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 66X...	HIT	HIT	HIT	HIT
04 CLG 000...	QT-IP12	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 006...	HIT	HIT	HIT	HIT
04 CLG 606...	QT-IP12	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 060...	HIT	HIT	HIT	HIT
04 CLG 066...	QT-IP12	QT-IP12	QT-IP12 / QT-IP12	QT-IP12 / QT-IP12
04 CLG 666...	HIT	HIT	HIT	HIT

Reflector
QT-IP12/GY6.35

Article numbers	Safety glass incl.	Beam spread diagrams	Beam spread data																				
17 HNC 810...		SSP	<table border="1"> <tr><th>h (m)</th><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td></tr> <tr><th>h (ft)</th><td>3.28</td><td>6.56</td><td>9.84</td><td>13.12</td></tr> <tr><th>Beam spread (m)</th><td>28.445</td><td>71</td><td>110</td><td>149</td></tr> <tr><th>Beam spread (ft)</th><td>93.3</td><td>231</td><td>360</td><td>487</td></tr> </table>	h (m)	1.0	2.0	3.0	4.0	h (ft)	3.28	6.56	9.84	13.12	Beam spread (m)	28.445	71	110	149	Beam spread (ft)	93.3	231	360	487
h (m)	1.0	2.0	3.0	4.0																			
h (ft)	3.28	6.56	9.84	13.12																			
Beam spread (m)	28.445	71	110	149																			
Beam spread (ft)	93.3	231	360	487																			
17 HNC 610...		SP	<table border="1"> <tr><th>h (m)</th><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td></tr> <tr><th>h (ft)</th><td>3.28</td><td>6.56</td><td>9.84</td><td>13.12</td></tr> <tr><th>Beam spread (m)</th><td>89.52</td><td>179</td><td>268</td><td>357</td></tr> <tr><th>Beam spread (ft)</th><td>294</td><td>588</td><td>882</td><td>1176</td></tr> </table>	h (m)	1.0	2.0	3.0	4.0	h (ft)	3.28	6.56	9.84	13.12	Beam spread (m)	89.52	179	268	357	Beam spread (ft)	294	588	882	1176
h (m)	1.0	2.0	3.0	4.0																			
h (ft)	3.28	6.56	9.84	13.12																			
Beam spread (m)	89.52	179	268	357																			
Beam spread (ft)	294	588	882	1176																			
17 HNC 410...		MFL	<table border="1"> <tr><th>h (m)</th><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td></tr> <tr><th>h (ft)</th><td>3.28</td><td>6.56</td><td>9.84</td><td>13.12</td></tr> <tr><th>Beam spread (m)</th><td>49.73</td><td>99</td><td>148</td><td>197</td></tr> <tr><th>Beam spread (ft)</th><td>163</td><td>326</td><td>490</td><td>648</td></tr> </table>	h (m)	1.0	2.0	3.0	4.0	h (ft)	3.28	6.56	9.84	13.12	Beam spread (m)	49.73	99	148	197	Beam spread (ft)	163	326	490	648
h (m)	1.0	2.0	3.0	4.0																			
h (ft)	3.28	6.56	9.84	13.12																			
Beam spread (m)	49.73	99	148	197																			
Beam spread (ft)	163	326	490	648																			
17 HNC 210...		WFL	<table border="1"> <tr><th>h (m)</th><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td></tr> <tr><th>h (ft)</th><td>3.28</td><td>6.56</td><td>9.84</td><td>13.12</td></tr> <tr><th>Beam spread (m)</th><td>103</td><td>206</td><td>309</td><td>412</td></tr> <tr><th>Beam spread (ft)</th><td>338</td><td>676</td><td>1011</td><td>1358</td></tr> </table>	h (m)	1.0	2.0	3.0	4.0	h (ft)	3.28	6.56	9.84	13.12	Beam spread (m)	103	206	309	412	Beam spread (ft)	338	676	1011	1358
h (m)	1.0	2.0	3.0	4.0																			
h (ft)	3.28	6.56	9.84	13.12																			
Beam spread (m)	103	206	309	412																			
Beam spread (ft)	338	676	1011	1358																			

Ballast

Electronic low voltage transformer	230-240V / 12V, 50/60Hz	20-105 VA
GT-IP12/GY6.35 / QT-IP12	220-240V, 50/60Hz	35 W
Electronic ballast	220-240V, 50/60Hz	70 W
HIT/HIT-DE	230V, 50Hz	100 W
Conventional ballast	230V, 50Hz	35 W
HIT/HIT-DE	240V, 50Hz	70 W
	240V, 50Hz	35 W
	240V, 50Hz	70 W

Lamp

HIT/G12 35/70/100 W	Information about lamps > 388
GT-IP12 IRC/GY6.35/50/65 W	Information about lamps > 392
GT-IP12/GY6.35/20/35/50/75/90 W	Information about lamps > 392

Optional accessories	Filter	UV filter	Information
Coloured glass filter	blue, yellow, green, orange, red		As a matter of principle, Ansong recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.
Honeycomb grid			

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antiracite / ...410 = silver

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- Lighting technology HIT/G8.5, QTI 14/8.5
- for recessed mounting
- Recessed spotlight with one, two or three gimbal-mounted spotlights
- filling and turning
- Connection data: HIT/G8.5, electronic ballast, 20(24)W, 35(42)W, 70(80)W;
- QTI 14/8.5, electronic transformer, 12V, max. 60W
- Weight (0.9 kg (1 module), 1.7 kg (2 modules), 2.6 kg (3 modules))



HIT: Connection of light fitting to ballast by means of Wieland safety plug system ST1 B/3 red.
QTI 14: Connection of light fitting to mains by means of 2-pole terminal block.

MODULO ELECTRO

Reflector
QTI 14/G8.5

Article numbers	HIT	QTI 14	HIT	QTI 14	HIT	QTI 14	HIT	QTI 14	HIT	QTI 14
04 CML 6XX...										
04 CML 0XX...										
04 CML 66X...										
04 CML 00X...										
04 CML 006...										
04 CML 066...										
04 CML 606...										
04 CML 6X6...										
04 CML 6X0...										

Recessed spotlight	1 module	2 modules	3 modules

Article numbers	Safety glass incl.	Beam diagrams	Beam data
17 HB 810-...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 610-...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 410-...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 210-...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0

+ Reflector
HIT/G8.5

Article numbers	Safety glass incl.	Beam diagrams	Beam data
17 HB 810-SN...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 810-GD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 810-RS...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 810-BD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 610-SN...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 610-GD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 610-RS...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 610-BD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 410-SN...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 410-GD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 410-RS...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 410-BD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 210-SN...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 210-GD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 210-RS...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
17 HB 210-BD...			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0

Recessed spotlight	SSP	SP	MFL	FL

Article numbers	Safety glass incl.	Beam diagrams	Beam data
15 NE 3018			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
27 VT 1051-5F00			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
27 VE 1121			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0
27 VE 1321			1.0, 1.0, 2.0, 2.0, 3.0, 3.0, 4.0, 4.0

Electronic low voltage transformer
GFLP12/OR-CBC/QTI 4
Electronic ballast
HIT/HITDE
Information about lamps > 388
Information about lamps > 392
As a matter of principle, Ansong recommends the use of mood filters in combination with HIT lamps having the colour temperature 930.

Optional accessories
Glare reduction cylindrical
Filter
Coloured glass
blue
yellow
green
orange
red
Honeycomb grid
The use of the colour filters blue, green is only permitted for the operation of the luminaire in the 20W and 35W versions.
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antiracite / ...410 = silver
The centre position of the alternatives 04 CML 6X6, ...0X0 and ...6X0 can be equipped with any single module from the Lightstrip range.
Please perform this order number, in addition.



- Lighting technology HIT/G8.5
- for recessed mounting
- Recessed spotlight with one, two or three gimbal-mounted spotlights
- tilting and turning
- Connection data: electronic ballast 20(24)W...35(42)W, 70(80)W
- Weight 0.9 kg (1 module), 1.7 kg (2 modules), 2.6 kg (3 modules)

Connection of light fitting to ballast by means of Wiselond safety plug system ST1 B/3 red.



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+ Lamp

HIT/G8.5 20/35/70 W

Information about lamps > 388

As a matter of principle, Ansoorg recommends the use of mood fillers in combination with HIT lamps having the colour temperature 930.

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antirreflect / ...410 = silver

	1 module	HIT	Article numbers 04 CLC 6XX...
+ Recessed spotlight		HIT	04 CLC 6XX...
		HIT / HIT	04 CLC 66X...
		HIT / HIT / HIT	04 CLC 666...
+ Reflector HIT/G8.5	<p>SSP</p>	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	<p>17 HIU 810-... 17 HIU 810-SN... 17 HIU 810-GD... 17 HIU 810-RS... 17 HIU 810-BD...</p>
	<p>SP</p>	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	<p>17 HIU 610-... 17 HIU 610-SN... 17 HIU 610-GD... 17 HIU 610-RS... 17 HIU 610-BD...</p>
	<p>MFL</p>	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	<p>17 HIU 410-... 17 HIU 410-SN... 17 HIU 410-GD... 17 HIU 410-RS... 17 HIU 410-BD...</p>
	<p>WFL</p>	Safety glass incl. Mood-Filter Sun incl. Mood-Filter Gold incl. Mood-Filter Rose incl. Mood-Filter Bordeaux incl.	<p>17 HIU 210-... 17 HIU 210-SN... 17 HIU 210-GD... 17 HIU 210-RS... 17 HIU 210-BD...</p>
+ Ballast	Electronic ballast HIT/HIT/DE	220-240V, 50/60Hz	<p>27 VT 1051-500 27 VTE 121 27 VTE 1321</p>



- Lighting technology QR-CBC51/GU5.3
- for recessed mounting
- Recessed spotlight with one, two or three gimbal-mounted spotlights
- tilting and turning
- Connection data: electronic transformer, 12V, max. 50W
- Weight 0.4 kg (1 module), 0.8 kg (2 modules), 1.2 kg (3 modules)

Connection of light fitting to ballast by means of 2-pole terminal block.



Recessed spotlight

Article numbers	max. 50 W	max. 50 W	max. 50 W	230-240V/12V, 50/60Hz	Information about lamps
04 CDC 4501F-...	1 module	2 modules	3 modules	15 NE 3018	Information about lamps > 392
04 CDC 4502F-...					
04 CDC 4503F-...					
Electronic low voltage transformer QTHP12/QR-CBC/GT14					
QR-CBC51IRC/GU5.3 20/35/50 W					

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...001 = white / ...010 = silver / ...010 = silver / RAL9006

+ Lamp

Information about lamps > 389

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver



- Lighting technology HIT-DE/RX7s, TC-DEL/G24q
- for recessed mounting
- Downlight (TC-DEL) with integral electronic ballast with frosted glass
- symmetrical light distribution
- Connection data: HIT-DE/RX7s, electronic ballast, 70(80)W, 1.50(1.63)W, conventional ballast, 230V, 70(88)W, 1.50(1.70)W; TC-DEL/G24q, 2x18(40)W, 2x28(60)W
- Weight HIT-DE: 1.9 kg, TC-DEL: 3.2 kg

HIT-DE: Connection of light fitting to ballast by means of Wriband safety plug system ST18/3 red.
TC-DEL: Connection of light fitting to mains by means of 2-pole terminal block.



Recessed luminaire with integral reflector

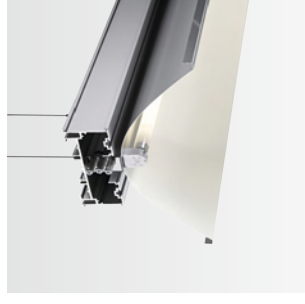
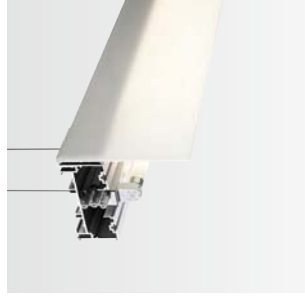
Article numbers	HIT-DE/RX7s, 70 W	HIT-DE/RX7s, 150 W	TC-DEL/G24q-2, 2 x 18 W	TC-DEL/G24q-3, 2 x 28 W	27 VE 1321	27 VT 1621	27 VE 1361	27 VE 1661	27 VT 1364	27 VT 1664
03 CHM 2910-...	without ballast	without ballast	without ballast	without ballast	220-240V, 50/60Hz	230V	50Hz	240V	50Hz	Information about lamps > 389
03 CHM 3910-...	electronic ballast incl.	electronic ballast incl.	electronic ballast incl.	electronic ballast incl.	230V	50Hz	240V	50Hz	Information about lamps > 389	
03 CHM 0930-...					Information about lamps > 390					
03 CHM 1930-...					Information about lamps > 390					
TC-DEL/G24q-2										
TC-DEL/G24q-3										
Electronic ballast HIT/HIT-DE conventional ballast HIT/HIT-DE										
HIT-DE/RX7s 70 W										
HIT-DE/RX7s-241 50 W										
TC-DEL/G24q-2 18 W										
TC-DEL/G24q-3 28 W										

+ Ballast

Information about lamps > 389

Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = anthracite / ...410 = silver



MODUL

ELECTRO

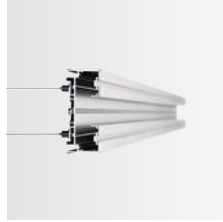
www.modulelectro.ru

Adlight is an innovative approach to solutions for large-area concepts: a linear lighting and guidance system with interfaces for luminaires, orientation, decoration and merchandising. The system is based on these basic elements: an aluminium section in various lengths as the basic carrier for all functions in suspended or ceiling mounting, direct and indirect lighting modules as well as corporate identity and merchandising elements which makes individualisation of the system possible. In total, Adlight thus provides an ideal prerequisite for performing the most varied lighting tasks in the sense of the client's corporate design and using it with a view to presentation at the point of sale.

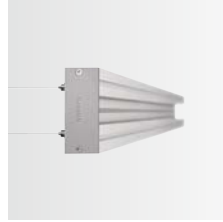
- Straight-line, pure design
- Strip lighting system with interfaces for luminaires and merchandising elements for individualized branding
- Combination of power track, direct/indirect lighting, ambient/accent lighting, decorative lighting, central system and merchandising



basic elements



profile

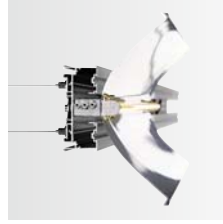


profile with endcap

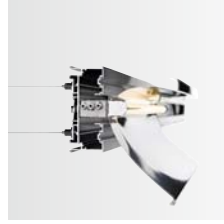
lighting modules
direct lighting



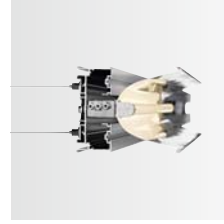
fluorescent light batten



fluorescent light batten with reflector "washer"



fluorescent light batten with reflector "wallwasher"



fluorescent light batten with reflector "downlight"

lighting modules
indirect lighting



uplight

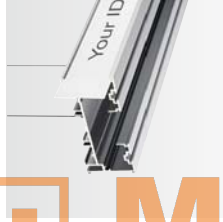


uplight with one acrylic plate



uplight with two acrylic plates

Corporate Design-/Merchandising-Elements



bracket for posters

MODULO

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coloured stripes



coloured stripes



coloured stripes

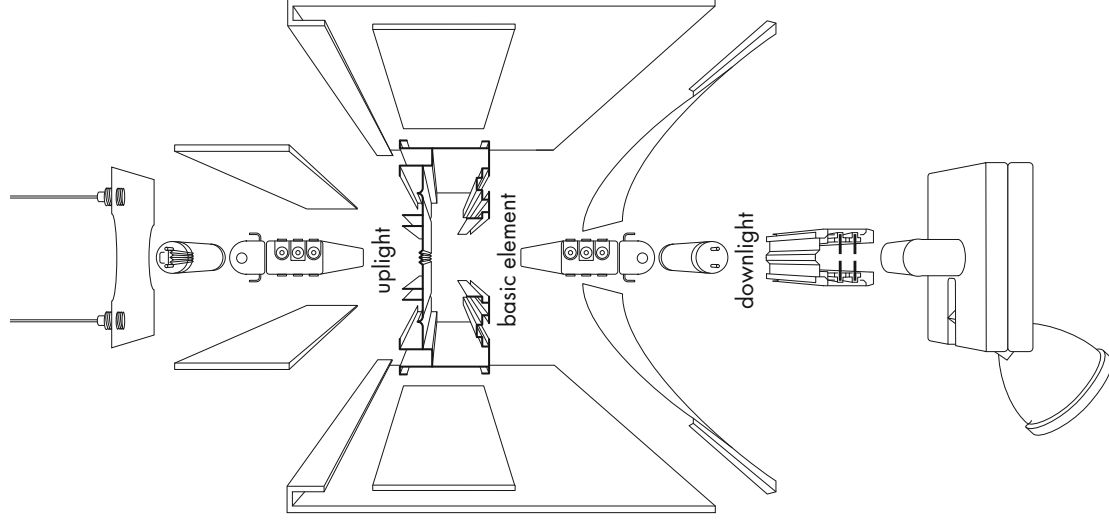


coloured stripes

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mounting

lighting row T16

Corporate Design-/
Merchandising-Elements

reflectors

lighting row T16

track

spotlights



Adlight basic elements
➔ 326



Adlight lighting elements
➔ 328



Adlight Corporate identity and merchandising elements
➔ 331

Mounting

for ceiling mounting
for suspended mounting

Lighting technology

T16/GS 35 W
T16/GS 49 W

MODULO

ELECTRO

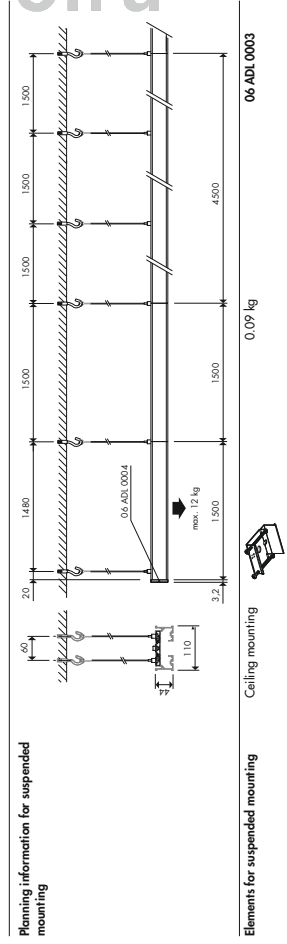
www.modulelectro.ru



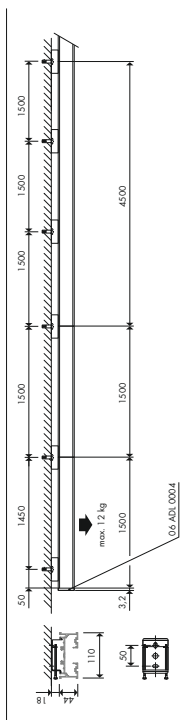
- Linear lighting system for large-area concepts
- for surface or suspended mounting
- Profile system in various lengths for housing luminaires/merchandising elements



Basics	
End cap for profile	Article numbers 06 ADL 0004 0.02 kg
Profile	Article numbers 06 ADL 0150 06 ADL 0450 l = 1500mm l = 4500mm 1.81 kg / m
Collecting element for end suspension steel cable 5m incl.	Article number 06 ADL 0002 0.09 kg
Collecting element for edge to edge suspension steel cable 5m incl.	Article number 06 ADL 0001 0.16 kg



Planning information for ceiling mounting



Order information

The luminaire is only available in the 'silver' version.

MODULO ELECTRO

www.modulelectro.ru



- Supplementary optional accessories
- Colour strips for profiles as corporate identity element
- Fixing accessories for displays/posters as merchandising elements

MODULELECTRO

www.modulelectro.ru

Wiring	Article numbers	Dimensions	Weight	Capacity	Accessories	Article numbers
Power cable for feeding with jack, Wieland GST	17 LS 0500 17 LS 0105	l = 5000mm l = 5000mm	0.18 kg 0.74 kg	20 items per unit 0.02 kg	for poster 	06 ADL 0030 06 ADL 0020 06 ADL 0010
Connecting cable, single phase with jack, Wieland GST	17 AK 0100	l = 5000mm	0.04 kg		for top lateral hanging Hanging from the section, max. carrying capacity 0.2 kg 	06 ADL 0006
Connecting cable, single phase with plug, Wieland GST	17 AK 0101	l = 5000mm			Hook for pushing into the section from the bottom 	06 ADL 0005
Connecting cable lighting rows with jack and plug, Wieland GST	17 AK 0016	l = 2000mm			for insertion into the section 	06 ADL 0045 06 ADL 0046 06 ADL 0043 06 ADL 0048 06 ADL 0044 06 ADL 0047 06 ADL 0042 06 ADL 0049 06 ADL 0041



MODULO

ELECTRO

www.modulelectro.ru

Cordline is a strip line lighting fixture system for fluorescent lamps for ambient lighting in the retail trade. The system can be fixed directly to the ceiling or suspended from round steel chains. The individual profiles are available in three different lengths and can be connected to each other quickly and without the use of tools. The system range comprises rectangular aluminium reflectors as well as profiles with power tracks for the use of spotlights with adapters.

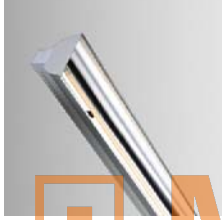
- Basic design
- Strip lighting system as a quickmounting system
- Connection of the profiles without the use of tools
- Power track profile permits the use of all of the spotlights in the Ansoerg range



Cordline
7, 335

- for ceiling mounting
 - for suspended mounting
- T16/G5 49 W

- Mounting
- Lighting technology



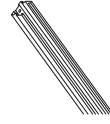
Cover



l = 1.480mm

Article numbers
06 T5Z 0100

Starting profile

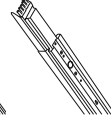


1.57 kg / m

l = 1.480mm, w = 60mm
l = 2.960mm, w = 60mm
l = 4.440mm, w = 60mm

06 T5P 1151
06 T5P 1251
06 T5P 1351

Profile extension



1.57 kg / m

l = 1.480mm, w = 60mm
l = 2.960mm, w = 60mm
l = 4.440mm, w = 60mm

06 T5P 1150
06 T5P 1250
06 T5P 1350

Pre-wired carrier system, plug-in connection to three-phase network possible (phase selection).

- Lighting technology T16/G5
- Lighting row system for fluorescent lamps for ambient lighting
- for surface or suspended mounting
- Quick mounting of the individual profiles without the use of tools
- Design of the profiles in white
- Connection data: electronic ballast, 230-240V, 49[54]W



MODULO ELECTRO

www.modulelectro.ru












MODULO

ELECTRO

www.modulelectro.ru

Vario is a variable lighting duct system, for use in architecture. The modular panels can be recessed, without edging, in the ceiling, precisely on the ceiling or suspended from the ceiling, on a linear basis or extended by corner solutions. Directional spotlights, downlights, wallwashers or spotlights can be used as luminaires recessed without edging. Due to its adaptability the modular system is recommended for widely varying room and lighting situations.

- Architectural design
- Linear profile system designed as recessed, surface-mounted or suspended version
- Reinforces the impression of space and emphasizes the axes
- Abundant selection of functional elements for every lighting task

	 Basis elements Vario ↗ 343	 Fastenings Vario ↗ 345	 Vario BSS ↗ 347	 Vario CSS ↗ 348	 Vario CES ↗ 349	 Vario RHC ↗ 350	 Vario CDK ↗ 351	 Vario CDK ↗ 352	 Vario CDT ↗ 353
Mounting	<ul style="list-style-type: none"> • for recessed mounting • for ceiling mounting • for suspended mounting 								
Lighting technology	<ul style="list-style-type: none"> • QT-IP12/G16,3.5 max. 90 W • HIT/G12 35 W • HIT/G12 70 W • HIT/G8,5 35 W • HIT/G8,5 70 W • T16/G5 39 W 								
Type of reflector	<ul style="list-style-type: none"> • SSP • SP • MEL • FL 								

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Vario CDT
2, 355

11.6/GS 39 W

Lighting technology



- Lighting duct system for recessed mounting, surface mounting or suspended mounting
- Recessed version without edging and flush with ceiling
- Duct profiles in two different widths (115mm and 170mm)
- Function panels with different luminaire types (spotlights, downlights, washers)
- Fitting of the function panel into the duct without the use of tools



MODUL ELECTRO

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Channel section

for surface and suspended mounting

Width = 115mm



Article numbers
06 SKS 0033...
06 SKS 0035...
06 SKS 0037...
06 SKS 0038...

l = 375mm
l = 625mm
l = 1250mm
l = 2500mm

0,86 kg
1,26 kg
2,25 kg
4,18 kg

Width = 170mm



Article numbers
06 MKM 0033...
06 MKM 0035...
06 MKM 0037...
06 MKM 0038...

l = 375mm
l = 625mm
l = 1250mm
l = 2500mm

0,96 kg
1,86 kg
3,45 kg
6,64 kg

for recessed mounting

Width = 115mm



l = 1250mm
l = 2500mm

2,25 kg
4,18 kg

Width = 170mm



Article numbers
06 MKM 0017...
06 MKM 0018...

l = 1250mm
l = 2500mm

3,45 kg
6,64 kg

Accessories

Cover plate

Width = 115mm



Article numbers
06 SKS 0063...

0,33 kg

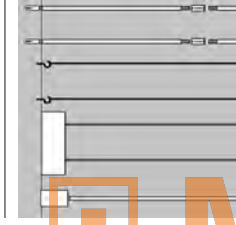
Width = 170mm



Article numbers
06 MKM 0063...

0,33 kg

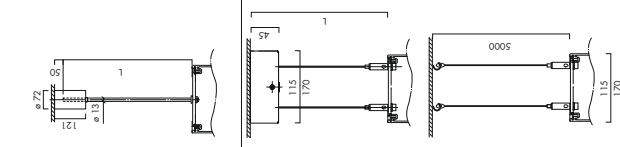
- Different variants of the suspension possible
- Suspension by suspension tube of various lengths (with ceiling canopy)
- Suspension by wire cable (with and without ceiling canopy)



MODUL ELECTRO

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Blank panel	Width = 115mm	Article numbers	Weight	Length	Canopy incl.	Extension	Article numbers	Weight	Length
Blank panel with cutout 130mm	Width = 170mm	06 SKS 0071...	0.11 kg	125mm	canopy incl., with cable outlet	Basic version	06 SKS 0210...	0.3 kg	2500mm
		06 SKS 0072...	0.2 kg	250mm			06 SKS 0211...	0.39 kg	2500mm
		06 SKS 0073...	0.39 kg	375mm			06 SKS 0200...	0.28 kg	2500mm
		06 SKS 0074...	0.49 kg	500mm			06 SKS 0200...	0.37 kg	2500mm
		06 SKS 0075...	0.77 kg	625mm					
		06 SKS 0076...	0.96 kg	750mm					
		06 SKS 0077...	1.92 kg	1250mm					
End panel	Width = 115mm	06 MKM 0071...	0.15 kg	125mm	with eyellet for ceiling hook	Extension	06 MKM 0300-401	2 items per unit	2000mm, white
		06 MKM 0072...	0.27 kg	250mm			06 MKM 0300-402	0.5 kg	2000mm, black
		06 MKM 0073...	0.39 kg	375mm					
		06 MKM 0074...	0.53 kg	500mm					
		06 MKM 0075...	0.66 kg	625mm					
		06 MKM 0076...	1.04 kg	1000mm					
		06 MKM 0078...	2.6 kg	2500mm					
T-connector	Width = 115mm Width = 170mm	06 SKS 0062...	0.33 kg				06 MKM 0301-401	2 items per unit	2000mm, white
		06 MKM 0062...	0.33 kg				06 MKM 0301-402	0.52 kg	2000mm, black





Panel with 2 m mains cable and Virekind safety plug system GST18.3.

- Lighting technology HIT/G8.5
- Function panel with integral electronic ballast and spotlight
- tilting and turning
- Fitting of the function panel into the duct without the use of tools
- Connection data: electronic ballast, 220-240V, 35(42)W, 70(80)W
- Weight 2.2 kg



Accessories cut-out edge protector	Width = 11.5mm / 170mm	Weight	Article numbers
for ceilings with thickness of 12.5 mm	1.64 kg 2.91 kg	06 SKS 0047 06 SKS 0048	
for ceilings with thickness of 25 mm	1.94 kg 3.36 kg	06 MKM 0047 06 MKM 0048	
for ceilings with thickness of 25 mm	1.64 kg 2.91 kg	06 SKS 0057 06 SKS 0058	
for ceilings with thickness of 25 mm	1.94 kg 3.36 kg	06 MKM 0057 06 MKM 0058	

Function panel with spotlight	Width = 11.5mm	Weight	Article numbers
SSP	375 270 115 170	35 W 70 W	06 SBSS 152... 06 SBSS 252...
SP	375 270 115 170	35 W 70 W	06 MBSS 152... 06 MBSS 252...
MFL	375 270 115 170	35 W 70 W	17 HB 810...
FL	375 270 115 170	35 W 70 W	17 HB 610... 17 HB 410... 17 HB 210...



www.modulelectro.ru

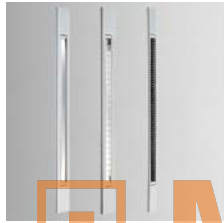
Accessories cut-out edge protector	Width = 11.5mm / 170mm	Weight	Article numbers
Connector for colour edge protectors 50°	0.02 kg 0.03 kg	17 KV 0090	
end piece for ceilings with thickness of 12.5 mm	0.02 kg 0.03 kg	06 SKS 0040 06 MKM 0040	
end piece for ceilings with thickness of 25 mm	0.02 kg 0.03 kg	06 SKS 0050 06 MKM 0050	

Reflector HIT/G8.5	Information about lamps > 388
HIT/G8.5 35/70 W	17 AS 2000
Glare reduction cylindrical Filter	17 GL 1010
UV filter	

Order information
Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antirreflect / ...410 = silver



- Lighting technology HIT/G12, HIT/G8.5
- Function panel with integral electronic ballast and wall washer
- Filling reflector
- Fitting of the function panel into the duct without the use of tools
- Connection data: electronic ballast, 220-240V, HIT/G12, HIT/G8.5, 35(42)W, 70(90)W
- Weight 2.1 kg



- Lighting technology T16/G5
- Function panel with integral electronic ballast and downlight
- optional with grid module
- Fitting of the function panel into the duct without the use of tools
- Connection data: electronic ballast, 230-240V, 39(41)W
- Weight 4.0 kg

Panel with 2 m mains cable and Wieland safety plug system GST183.



Function panel with wall washer and integral reflector

Width = 115mm

Article numbers
06 SCDK 3030...
06 SCDK 3040...

HIT/G8.5,
35 W
HIT/G8.5,
70 W

Safety glass, incl.,
electronic ballast
incl.



Function panel with downlight and integral reflector

Width = 115mm

Article numbers
06 SCDT 6110...
06 SCDT 6111...
06 SCDT 6112...

39 W

electronic ballast
incl.



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



Width = 170mm

Article numbers
06 MCDT 6110...
06 MCDT 6111...
06 MCDT 6112...

39 W

electronic ballast
incl., mirror grid
with lower-grid
incl.,



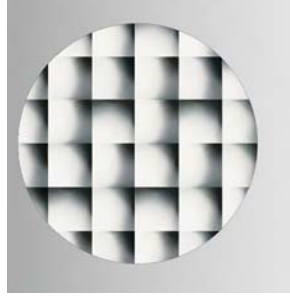
Redirecting systems Advantages and Features

1
2
3
4
5
6
7
8



Beam 7361

- Technical design
- High-power, extremely narrow-beam spotlight
- Suitable as a light redirecting system in combination with mirrors
- Adjustment of the cone of light by means of various diffusers for direct lighting



Mirror 7365

- Mirror/projector deflection systems for use in the case of extremely high room situations
- In combination with light projectors (beam), homogeneous, non-glare ambient light is produced, creating an impression similar to daylight
- Mirrors act as a design element

MODULO
ELECTRO
www.modulelectro.ru

MODULO ELECTRO

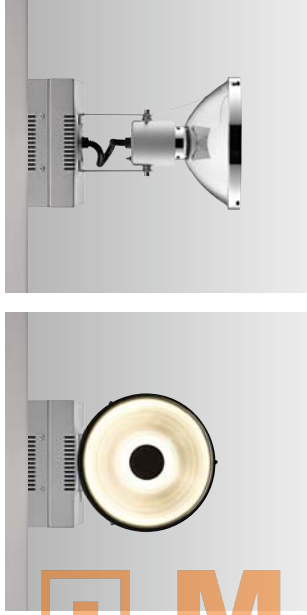
www.modulelectro.ru

Lighting technology	Beam	Mirror
	Beam 7 361	Mirror 7 365
	• HIT(HQHT)/G12 70 W	
	• HIT(HQHT)/G12 150 W	
	• conventional ballast incl.	
	• SSP	



Redirecting systems Beam

- 1
- 2
- 3
- 4
- 5
- 6
- 7**
- 8

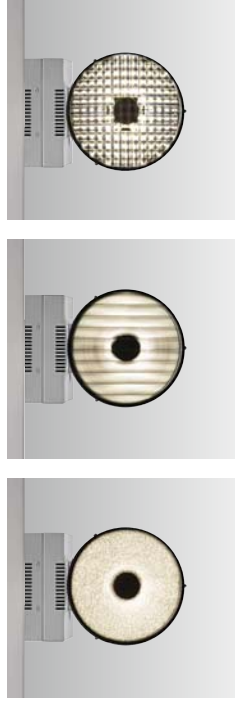


MODUL
ELECTRO

www.modulelectro.ru

Beam is a projector for narrow beam light used in combination with redirecting mirrors. The reflector can be focussed and is equipped with a cap to restrict glare. Different structured glasses bring about a change in the light distribution opening, in order to also use the spot for direct lighting. Beam is intended for a variety of tasks in presentation lighting and architectural lighting.

- Technical design
- High-power, extremely narrow-beam spotlight
- Suitable as a light redirecting system in combination with mirrors
- Adjustment of the cone of light by means of various diffusers for direct lighting





Beam BLS
➤ 363

Lighting technology	HIT(HQ/T)/G12 70 W HIT(HQ/T)/G12 150 W
Ballast	conventional ballast incl.
Type of reflector	SSP

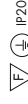


Spotlight with integral reflector



- Lighting technology HIT (HQ/T)/G12
- for surface or wall mounting
- tilting and turning
- Parabolic reflector and glare reduction device
- Spotlight optional coated or highly reflective
- Connection data: conventional ballast, 230V, 70/150W, 150(170)W
- Weight 3.5 kg (70W), 4.2 kg (150W)

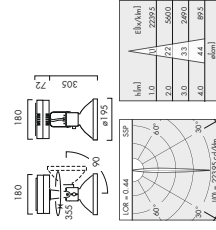
Connection of light fitting to mains by means of 3-pole terminal block.



Article numbers
02 BLS 1611-...
02 BLS 2611-...
02 BLS 1610-...
02 BLS 2610-...

70 W
150 W
70 W
150 W

conventional ballast incl.
highly reflective
conventional ballast incl., coated



HIT/G12

+ Lamp

HIT(HQ/T)/G12 70/150 W

Information about lamps ➤ 389
Only use HQ/T lamps (discharge lamps with quartz burners)!

Optional accessories

Filter	Structured glass		17 ZS 2300
UV filter	OD structured glass		17 GL 0028
Structured glass LS			17 ZS 2301
ED structured glass			17 ZS 2302

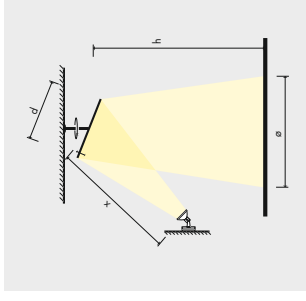
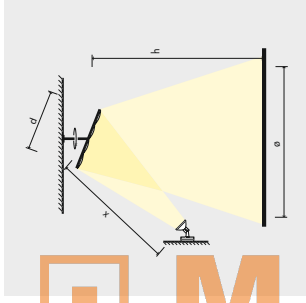
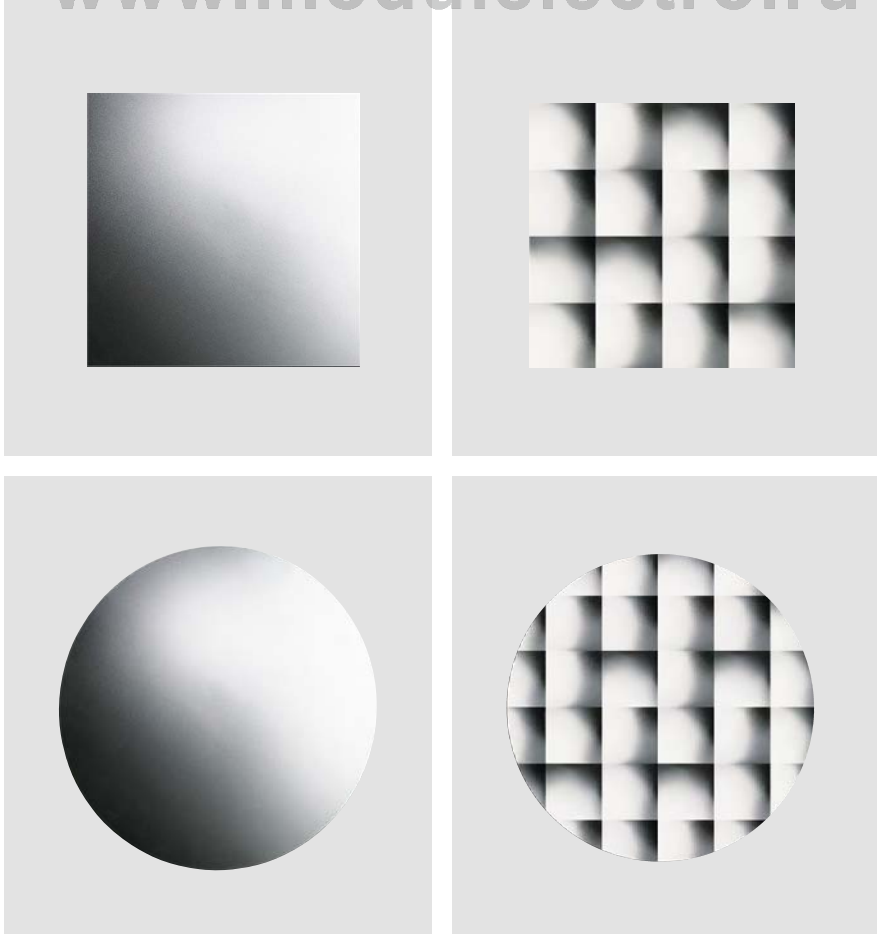
Order information

Article numbers ending on ... are to be supplemented by the colour code.
Colour code: ...401 = white / ...402 = antirattle / ...410 = silver

MODULELECTRO
www.modulelectro.ru

Redirecting systems

Mirror



MODULO

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Through the interplay of projectors and redirecting mirrors a particularly evenly spread and glare-free light can be achieved. The light from the spots is thrown systematically onto mirror surfaces, the light beams are widened or narrowed accordingly and reflected back down to the working area. The result is an ambience similar to daylight with a high degree of homogeneity and without glare. This lighting variant is suitable particularly for large, high rooms, for example for shopping malls.

- Mirror/projector deflection systems for use in the case of extremely high room situations
- In combination with light projectors (Beam), homogeneous, non-glare ambient light is produced, creating an impression similar to daylight
- Mirrors act as a design element



- Redirecting mirror as a plane or composite mirror
- for surface mounting
- Round or square design
- Surface brilliant finish
- Fixation with ceiling plate and rod in various lengths
- Suspension for single mirror or group of mirrors

Redirecting mirror	Plane mirror	quadratic	quadratic	round	quadratic	round
			l = 800mm, w = 800mm	d = 800mm	l = 800mm, w = 800mm	d = 800mm
			Article numbers 06 US 3302	06 US 2302	06 US 5302	06 US 4302

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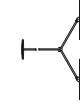
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Suspension

for single mirror



for double mirror



for triple mirror



for quadruple mirror



Article numbers

Rod lengths 200mm
06 UT 122.
Rods lengths 300mm
06 UT 133.
Rods lengths 400mm
06 UT 134.
Rods lengths 500mm
06 UT 135.
Rods lengths 600mm
06 UT 136.
Rods lengths 700mm
06 UT 137.
Rods lengths 800mm
06 UT 138.

Rod lengths 200mm
06 UT 232.
Rods lengths 300mm
06 UT 234.
Rods lengths 400mm
06 UT 236.
Rods lengths 500mm
06 UT 238.

Rod lengths 200mm
06 UT 332.
Rods lengths 300mm
06 UT 334.
Rods lengths 400mm
06 UT 336.
Rods lengths 500mm
06 UT 338.

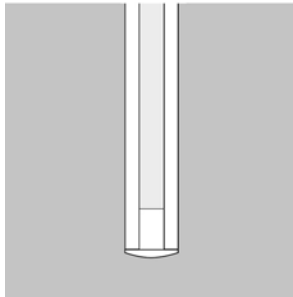
Rod lengths 200mm
06 UT 432.
Rods lengths 300mm
06 UT 434.
Rods lengths 400mm
06 UT 436.
Rods lengths 500mm
06 UT 438.

Order information

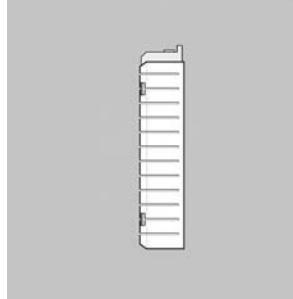
In the article numbers, please complete the last places ("dots") by the coding of the suspension rod / ceiling plate / colour combination:
Code of colour combination rod/silver / ceiling panel silver = 4, rod silver / ceiling panel white = 5, rod white / ceiling panel white = 6, colours according to customers wishes = 3.

Accessories Advantages and Features

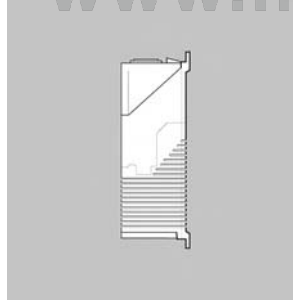
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



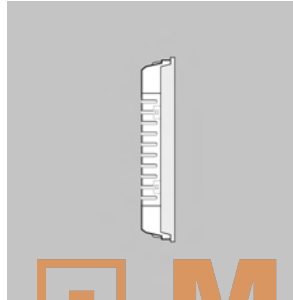
Tracks ↗370



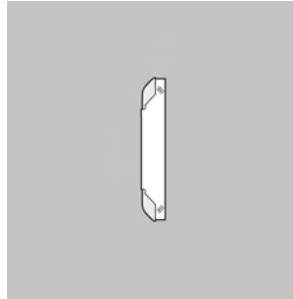
Electronic ballast ↗376



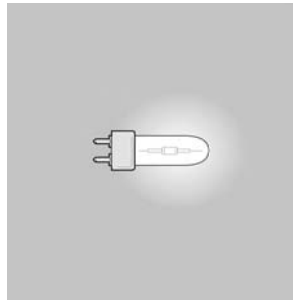
Conventional ballast ↗381



Transformers ↗384



Supply units ↗385





Lamps ↗388

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Further accessories	Multi adapter	Article numbers
		16 NK 70318002 16 NK 70318003
		16 NK 70316002 16 NK 70316003

white
black





white
black

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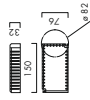
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-  **Overvoltage protection:**
Protected from continuous overvoltage of up to 320 volts over a period of 48 hours, spike protection LN → PE = 3 KV / L → N = 3 KV
-  **Overheating protection:**
Ballast unit has active overheating protection, new start takes place after programmed cooling down phase
-  **EOL cutoff (End-Of-Life):**
Cut-off upon the lamp reaching the end of its life
-  **Average life 50,000 h:**
Average life of 50,000 h, but a minimum of 30,000 hours at an ambient temperature of 55 °C

Ignition cutoff in case no lamp is fitted
Constant watt principle for optimum lamp operation



Max. lead length to the luminaire 2.0 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Connection to mains by means of integral Wieland safety plug system GST183.

HIT/HIT-DE 20 W



Article numbers
27 VT 1051-5F00

220-240V,
50/60Hz



0,5 kg

HIT/HIT-DE

20 W

Max. lead length to the luminaire 5.0 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Connection to mains by means of integral Wieland safety plug system GST183.

HIT/HIT-DE 35 W

HIT/HIT-DE 70 W

220-240V,
50/60Hz

220-240V,
50/60Hz

0,3 kg

0,3 kg

Article numbers
27 VTE 1121

Article numbers
27 VTE 1321

3x1,5mm²,
l = 1,5m

3x0,75mm²,
l = 0,8m

Article numbers
29 AK 0101

Article numbers
17 VTE 0001

- The control gear units are equipped with active protection against overheating
- Automatic cutoff upon lamp failure
- Constant watt principle for optimum lamp operation

Max. lead length to the luminaire 5.0 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Terminal line with Wieland safety plug system GST183, l = 2.0 m.

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Optional accessories

- Connecting cable Jack GST183 and free end necessary if no Wieland coupling present at the mains end
- Connecting cable Jack / plug ST18 red secondary extension cable

- The control gear units are equipped with active protection against overheating
- Automatic cutoff upon lamp failure
- Ignition cutoff in case no lamp is fitted
- Constant watt principle for optimum lamp operation

Max. lead length to the luminaire 2.0 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Terminal line with Wieland safety plug system GST18.3, l = 2.0 m.

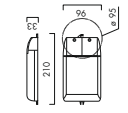


Article numbers
27 VT 1521-5F00

220-240V,
50/60Hz

0,6 kg

HIT/HIFEDE 100 W



- The control gear units are equipped with active protection against overheating
- Automatic cutoff upon lamp failure
- Ignition cutoff in case no lamp is fitted
- Constant watt principle for optimum lamp operation

Max. lead length to the luminaire 2.0 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Terminal line (1.1 m) left bare ended

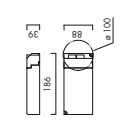


Article numbers
27 VT 1621

220-240V,
50/60Hz

1,6 kg

HIT/HIFEDE 150 W

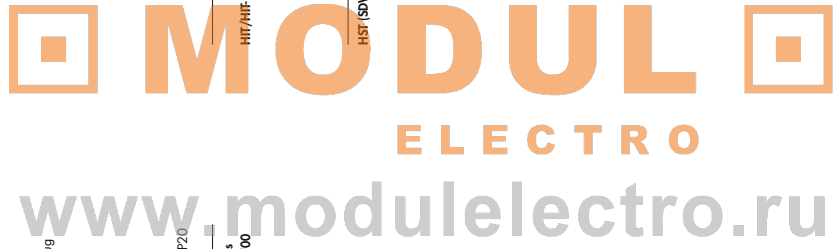
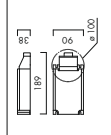


HST (SDW-TG) 100 W

220-240V,
50/60Hz

0,5 kg

Article numbers
27 VT 2521



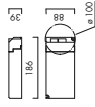
- The control gear units are equipped with active protection against overheating
- Automatic cutoff upon lamp failure
- Ignition cutoff in case no lamp is fitted
- Constant watt principle for optimum lamp operation

Max. lead length to the luminaire
10,0 m.
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
terminal line (1.1 m) left bare ended



IP20

HIT/HITDE	35 W	70 W	150 W
	220-240V 50/60Hz	220-240V 50/60Hz	220-240V 50/60Hz
	0,5 kg	0,5 kg	0,5 kg
	Article numbers 27 VT 1151	27 VT 1351	27 VT 1651



Overvoltage protection:
No start at overvoltage > 300 volts



Overheating protection:
Ballast unit has active overheating protection, new start takes place after programmed cooling-down phase

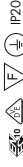


EOL cutoff (endOfLife):
Cut-off upon the lamp reaching the end of its life

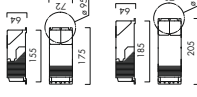


Average life 50,000 h:
Average life of 50,000 hours

Ignition cutoff in case no lamp is fitted
Marking as independent accessory



HIT/HIT-DE	35 W	70 W	150 W
	230V, 50Hz	230V, 50Hz	230V, 50Hz
	1,4 kg	1,6 kg	2,4 kg
	Article numbers 27 VIE 1161	27 VIE 1361	27 VIE 1661



Optional accessories

Connecting cable	Jack, GST1 813 and free end necessary if no Wieland coupling present at the mains end	3x1,5mm ² , l = 1,5m	29 AK 0101
Connecting cable	Jack / plug ST18 red secondary extension cable	3x0,75mm ² , l = 0,8m	17 VTE 0001

- The control gear units are equipped with active protection against overheating
- Type B capacitor power factor corrected (ZVEI recommendation)
- Timed ignitor with automatic cutoff upon lamp failure
- Ignition cutoff in case no lamp is fitted

Max. lead length to the luminaire
10.0 m.
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Terminal line (1.1 m) left bare ended
Ready for ceiling mounting



IP20

HIT/HIT-DE	35 W	70 W	150 W
	240V, 50Hz	240V, 50Hz	240V, 50Hz
	1,5 kg	1,5 kg	2,5 kg
	Article numbers 27 VT 1164	27 VT 1364	27 VT 1664

- The control gear units are equipped with active protection against overheating
- Type B capacitor power factor corrected (ZVEI recommendation)
- Controlled and stabilised lamp operation

Max. lead length to the luminaire 1,5 m
Ready to plug in for toolless connection to luminaire bodies via Wieland connectors
Terminal line (1.1 m) left bare ended
Ready for ceiling mounting



IP20

HST (S5W-T)	50 W	100 W
	230V, 50Hz	230V, 50Hz
	240V, 50Hz	240V, 50Hz
	2,4 kg	2,6 kg
	Article numbers 27 VT 2211	27 VT 2511
	27 VT 2214	27 VT 2514

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- The control gear units are equipped with active protection against overheating
- Protected against high voltage impulses up to 2kV
- Dimmable with leading and trailing edge dimming device

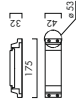
- The control gear units are equipped with active protection against overheating
- Stabilised output current

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OT12/OR-CBC/
OT14 20-105 VA 230-240V/12V,
50/60Hz 0,19 kg **Article numbers**
15 NE 3018



20-105 VA

230-240V/12V,
50/60Hz

0,10 kg

15 NE 3041



Article numbers
17 LE 7017

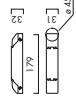


prim. 220-240V,
50/60 Hz 0,071 kg
sek. 350 mA DC

11 W

prim. 220-240V,
50/60 Hz 0,120 kg
sek. 350/700 mA DC

17 LE 7012



prim. 110-240V,
50/60 Hz 0,110 kg
sek. 350/500/700 mA
DC
dimmissible 1-10V

25 W



17 LE 7013

- The control gear units are equipped with active protection against overheating
- Stabilised output voltage

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IP20

LED	W	Dimensions (mm)	Article numbers	Weight (kg)	Input/Output
	12 W	109 x 65 x 55	15 LE 0023	0,097 kg	prim. 230-240V AC, sek. 10V DC, 0/50/60Hz
	20 W	109 x 65 x 55	15 LE 0026	0,097 kg	prim. 230-240V AC, sek. 24V DC, 0/50/60Hz
	50 W	220 x 65 x 55	15 LE 0058	0,27 kg	prim. 220-240V AC, sek. 10V DC, 0/50/60Hz
	75 W	220 x 65 x 55	15 LE 0059	0,28 kg	prim. 220-240V AC, sek. 24V DC, 0/50/60Hz
	120 W	125 x 65 x 55	15 LE 9120	0,9 kg	prim. 100-130/200-250V AC, sek. 50/60Hz

High-pressure metal halide lamp with ceramic burner

HIT/G12	GE lighting	Article numbers	830	70 W	G12	3400 lm	d = 19mm	19 LS 9049
			830	70 W	G12	6400 lm	d = 19mm	19 LS 9050
			830	150 W	G12	14000 lm	d = 19mm	19 LS 9051
			942	70 W	G12	6000 lm	d = 19mm	19 LS 4004
			942	150 W	G12	13000 lm	d = 19mm	19 LS 4005
			830	35 W	G12	3400 lm	d = 19mm	19 LS 5068
			830	70 W	G12	7000 lm	d = 19mm	19 LS 5013
			830	100 W	G12	9500 lm	d = 19mm	19 LS 5159
			830	150 W	G12	15500 lm	d = 25mm	19 LS 5136
			942	70 W	G12	6700 lm	d = 19mm	19 LS 5160
			942	100 W	G12	9300 lm	d = 19mm	19 LS 5089
			942	150 W	G12	14500 lm	d = 25mm	19 LS 5141
			930	35 W	G12	2800 lm	d = 19mm	19 LS 5049
			930	70 W	G12	6400 lm	d = 19mm	19 LS 5171
			830	35 W	G12	3300 lm	d = 20mm	19 LS 5054
			830	70 W	G12	6600 lm	d = 20mm	19 LS 5055
			830	150 W	G12	16000 lm	d = 20mm	19 LS 5060
			942	70 W	G12	6400 lm	d = 20mm	19 LS 5040
			930	35 W	G12	3500 lm	d = 20mm	19 LS 5126
			930	70 W	G12	7300 lm	d = 20mm	19 LS 5128
			930	100 W	G12	11000 lm	d = 20mm	19 LS 5161
			930	150 W	G12	15000 lm	d = 20mm	19 LS 5130

High-pressure metal halide lamp with quartz burner

HIT/G8.5	GE lighting	Article numbers	830	20 W	G8.5	1700 lm	19 LS 5059
			830	35 W	G8.5	3400 lm	19 LS 9047
			830	70 W	G8.5	6200 lm	19 LS 9048
			842	35 W	G8.5	3200 lm	19 LS 5401
			942	70 W	G8.5	6200 lm	19 LS 5402
			830	20 W	G8.5	1700 lm	19 LS 5180
			830	35 W	G8.5	3400 lm	19 LS 5142
			830	70 W	G8.5	6900 lm	19 LS 5098
			942	35 W	G8.5	3200 lm	19 LS 5143
			942	70 W	G8.5	6600 lm	19 LS 5099
			930	35 W	G8.5	2800 lm	19 LS 5144
			930	70 W	G8.5	6300 lm	19 LS 5170
			830	35 W	G8.5	3500 lm	19 LS 5062
			830	70 W	G8.5	6800 lm	19 LS 5065
			930	35 W	G8.5	3500 lm	19 LS 5127
			930	70 W	G8.5	7300 lm	19 LS 5129

High-pressure sodium vapour discharge lamp

HIT/G8.5	GE lighting	Article numbers	830	20 W	GU6.5	1615 lm	19 LS 5403
			830	20 W	GU6.5	1700 lm	19 LS 5172

High-pressure metal halide lamp with ceramic burner

HIT/PG12-2	Oxram HC/HTS	Article numbers	830	150 W	RX7s-24	14800 lm	19 LS 5150
			942	150 W <td>RX7s-24 <td>14200 lm <td>19 LS 5151</td> </td></td>	RX7s-24 <td>14200 lm <td>19 LS 5151</td> </td>	14200 lm <td>19 LS 5151</td>	19 LS 5151
			830 <td>150 W <td>RX7s-24 <td>13250 lm <td>19 LS 5038</td> </td></td></td>	150 W <td>RX7s-24 <td>13250 lm <td>19 LS 5038</td> </td></td>	RX7s-24 <td>13250 lm <td>19 LS 5038</td> </td>	13250 lm <td>19 LS 5038</td>	19 LS 5038
			942	150 W <td>RX7s-24 <td>14200 lm <td>19 LS 5056</td> </td></td>	RX7s-24 <td>14200 lm <td>19 LS 5056</td> </td>	14200 lm <td>19 LS 5056</td>	19 LS 5056

High-pressure metal halide lamp with quartz burner

HIT/HQ/HT/G12	Oxram HQ/HT	Article numbers	730	70 W	G12	5300 lm	19 LS 5014
			730	70 W <td>G12 <td>13000 lm <td>19 LS 5015</td> </td></td>	G12 <td>13000 lm <td>19 LS 5015</td> </td>	13000 lm <td>19 LS 5015</td>	19 LS 5015
			842	70 W <td>G12 <td>5800 lm <td>19 LS 5024</td> </td></td>	G12 <td>5800 lm <td>19 LS 5024</td> </td>	5800 lm <td>19 LS 5024</td>	19 LS 5024
			842	150 W <td>G12 <td>13000 lm <td>19 LS 5025</td> </td></td>	G12 <td>13000 lm <td>19 LS 5025</td> </td>	13000 lm <td>19 LS 5025</td>	19 LS 5025

High-pressure sodium vapour discharge lamp

HST/GX1 2-1	Philips SDW-TG	Article numbers	825	50 W	PG12-1	2400 lm	19 LS 5100
			825	100 W	PG12-1	4900 lm	19 LS 5101

Fluorescent lamp

TC-DEL/G24q-2		TC-DEL/G24q-3	
19 LL 5443	35 W	G5	3300 lm
19 LL 5200	39 W	G5	3100 lm
19 LL 5203	49 W	G5	4300 lm
19 LL 5100	54 W	G5	4450 lm
19 LL 5444	35 W	G5	3300 lm
19 LL 5210	39 W	G5	3100 lm
19 LL 5204	49 W	G5	4300 lm
19 LL 5105	54 W	G5	4450 lm
Compact fluorescent lamp			
19 LL 2118	18 W	G24q-2	1200 lm
19 LL 2018	18 W	G24q-2	1200 lm
19 LL 2218	18 W	G24q-2	1200 lm
19 LL 2126	26 W	G24q-3	1800 lm
19 LL 2026	26 W	G24q-3	1800 lm
19 LL 2226	26 W	G24q-3	1800 lm

TC-TEL/GX24q-3		Oxram IN PLUS	
830	for electronic ballast only	26 W	GX24q-3
830	for electronic ballast only	32 W	GX24q-3
830	for electronic ballast only	26 W	GX24q-3
840	for electronic ballast only	32 W	GX24q-3
840	for electronic ballast only	26 W	GX24q-3
840	for electronic ballast only	32 W	GX24q-3
827	for electronic ballast only	26 W	GX24q-3
830	for electronic ballast only	32 W	GX24q-3
840	for electronic ballast only	26 W	GX24q-3
840	for electronic ballast only	32 W	GX24q-3



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TC-S/L/G211

827	18 W	2G11	1200 lm
827	24 W	2G11	1600 lm
827	26 W	2G11	2800 lm
830	18 W	2G11	1200 lm
830	24 W	2G11	1600 lm
830	36 W	2G11	2900 lm
840	18 W	2G11	1200 lm
840	24 W	2G11	1800 lm
840	36 W	2G11	2900 lm
840	55 W	2G11	4800 lm

TC-TEL/GX24q-4		Compact fluorescent lamp with built-in electronic ballast	
827	for electronic ballast only	42 W	GX24q-4
830	for electronic ballast only	42 W	GX24q-4
840	for electronic ballast only	42 W	GX24q-4
827	for electronic ballast only	42 W	GX24q-4
830	for electronic ballast only	42 W	GX24q-4
840	for electronic ballast only	42 W	GX24q-4



TC-SEL/2G7	
827	11 W
830	11 W
840	11 W

TC-TSE/E27	
825	15 W
825	18 W
825	22 W



TC-TEL/GX24q-2	
827	18 W
830	18 W
840	18 W

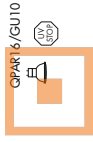
TC-TEL/GX24q-3	
827	26 W
827	32 W
830	26 W
830	32 W
840	26 W
840	32 W

Low voltage halogen lamp

ORC/CS1 IRC/ GU5.3		Article numbers	
with cool beam IRC-technology and safety glass	3000 K	20 W	GU5.3 6000 cd
	3000 K	20 W	GU5.3 1000 cd
	3000 K	20 W	GU5.3 450 cd
	3000 K	35 W	GU5.3 12500 cd
	3000 K	35 W	GU5.3 4400 cd
	3000 K	35 W	GU5.3 2200 cd
	3000 K	35 W	GU5.3 1100 cd
	3000 K	50 W	GU5.3 15000 cd
	3000 K	50 W	GU5.3 5700 cd
	3000 K	50 W	GU5.3 2850 cd
	3000 K	50 W	GU5.3 1430 cd
<hr/>			
QT14/G8.5	3050 K	45 W	G8.5 1100 lm
	3050 K	60 W	G8.5 1600 lm
<hr/>			
QT-IP12/GY6.35	3000 K	35 W	GY6.35 600 lm
	3000 K	50 W	GY6.35 910 lm
	3000 K	75 W	GY6.35 1450 lm
	3000 K	90 W	GY6.35 1800 lm
	3000 K	20 W	GY6.35 320 lm
<hr/>			
QT-IP12 IRC/ GY6.35	3000 K	35 W	GY6.35 900 lm
	3000 K	50 W	GY6.35 1250 lm
	3000 K	65 W	GY6.35 1700 lm

Halogen reflector lamp

GPAR16/GU10		Article numbers	
	2900 K	50 W	GU10 950 cd
	2900 K	50 W	GU10 950 cd
	2900 K	75 W	EZ7 6900 cd
	2900 K	75 W	EZ7 2200 cd
	2900 K	100 W	EZ7 10000 cd
	2900 K	100 W	EZ7 3500 cd
<hr/>			
GPAR30/EZ7	2900 K	75 W	EZ7 6900 cd
	2900 K	75 W	EZ7 2200 cd
	2900 K	100 W	EZ7 10000 cd
	2900 K	100 W	EZ7 3500 cd
	2900 K	75 W	EZ7 7500 cd
	2900 K	75 W	EZ7 2400 cd



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ISO 9001 / ISO 14001

All processes in our company are subject to a comprehensive management system which corresponds with the ISO 9001 quality standard and the ISO 14001 environment standard.

The BSI Management Systems und Umweltgutachter GmbH (certification and environmental management auditor) regularly checks this system and certifies with a certificate that the standards are fulfilled.

General remarks

With the appearance of this catalogue all previous documentation becomes invalid.

We reserve the right to make technical and formal alterations.

Our luminaires are being constantly adapted to technical innovations. For our internal logistic control additional identification marking of the article numbers is therefore necessary which slightly deviates from the article number in the catalogue list. The product dispatched does, however, comply in all cases with the latest technical standards.

Example: **02 ABC 123** - **401**

Art. No. Production status Colour code
The production status code is not activated for the purchase order!

As a matter of principle, all luminaires are supplied without lamps.

Our general conditions of delivery and sale are valid for all orders.

On our Web site you can find our current product information under www.ansorg.com.

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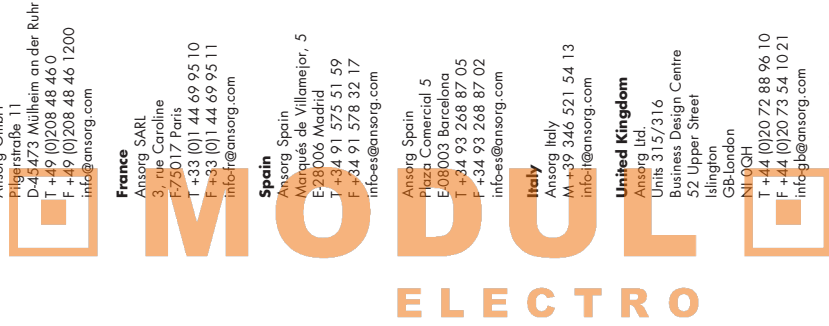
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