

LIGHT FOR OFFICE AND ADMINISTRATION
CATALOGUE 2016/2017



Light affects our life. If used correctly, it can promote our well-being, safety and efficiency and contribute to energy saving. The goals to which Waldmann is committed and which you can reach with our innovative and sustainable luminaires and lighting systems.





Waldmann – Light for people. Waldmann stands for high-quality, people-oriented lighting solutions. The passion for light has a long history at Waldmann. Established 1928 as a company for electrical installations, the medium-sized family business is run today as Herbert Waldmann GmbH & Co. KG in its third generation by the owner Gerhard Waldmann. Some 870 committed employees contribute to the success of Waldmann at the company's headquarters in Villingen-Schwenningen and production and distribution locations in 12 countries worldwide.

The product range includes luminaires and lighting systems for offices, industry, health and care and systems for medical phototherapy. With its innovative solutions characterised by easily comprehensible installation and application, timeless modern design and a favourable price-performance ratio, Waldmann offers sustainable quality "made in Germany". Especially in luminaire groups networked to buildings and users, Waldmann products ensure continuous optimisation of health, safety, productivity and energy efficiency.



Design which serves the user. Today and tomorrow. "Sustainable design is the symbiosis of identity, functionality and simplicity," says Jürgen Schubert from STRUCURELAB architects, designer of the LAVIGO free-standing luminaire system. The quote describes the general design claim by Waldmann, i.e. obtaining maximum functionality with minimalistic design.

With this in mind, it is extremely important to consider the design of an office luminaire from a holistic point of view and not isolated. That's why when developing designs here at Waldmann we actively include all parameters regarding modern office concepts, furnishing scenarios and furniture systems in the design process. Or like Burkhard Schlee of Schlee Design, the designer of the PARA.MI task luminaires, put it: "Only the change of the perspective opens up the view for new things."

As a result of this interdisciplinary working method, we have high-quality design objects which meet all current and future requirements of modern office lighting concepts: discreet appearance, optimum user-friendliness and, last but not least, great compatibility with different ambiances.



reddot award 2015
winner



What must a modern lighting concept achieve? Waldmann has the solutions.

Save energy, not light. 40 % of all costs of a building in terms of its life cycle are energy costs, a large portion of which is for lighting. Waldmann shows ways of reducing energy costs, while increasing light comfort. To achieve significant energy savings, we develop lighting concepts that combine good light with low energy consumption. The basis for better cost efficiency is functional and purpose-oriented lighting planning, involving daylight applications by means of daylight sensors, using presence detectors and integrating it into modern building manage-

ment systems. Optimum lighting of computer workplaces contributes to better health of employees and less sick leaves while considering age-related lighting requirements. Productivity is promoted by harmonious lighting design, individual customization and improved light quality of office lighting.

The positive effects of a perfectly tuned lighting system:

- Energy saving
- Cost efficiency
- Health
- Productivity



Use good light to prevent work obstructions. Approx. 80 % of all workplaces in Germany are not illuminated correctly. To promote health and motivation of the employees, appropriate lighting must meet different requirements. First, it is necessary to avoid direct glare caused by high contrasts in luminance, which impairs vision and visual comfort. Windows or luminaires which, for example, are reflected on screens or glossy paper reduce the contrast and have a disturbing and tiring effect. Such reflected glare should be prevented by all means. The combination

of daylight and artificial light leads in the most unfavourable case to shadow formation in front of the hand used for writing. This can be prevented by a good ratio of diffuse light (e.g. by means of indirect light components) to directed light (e.g. by means of task luminaires).



TWIN-C – Concepts and Components – stands for holistic development of individual solution concepts using an intelligent combination of perfectly matched components. By viewing architecture, space and workplace as part of a differentiated complete solution, TWIN-C concepts by Waldmann ensure energy saving, cost efficiency and health and increase motivation and performance. We will be glad to develop an individual solution for you.

TWIN-C: In 4 Steps to the Optimum Solution.

- 1. Analysis:** Collection and analysis of all important requirements and planning data.
- 2. Concept:** Development of an individual lighting solution on the basis of the corresponding situation and data.
- 3. Components:** Selection and definition of the products required for the lighting concept.
- 4. Solution:** The result for higher energy savings, cost efficiency, health and productivity.



Biodynamic light for better work.

The same cycle takes place every day in the human body. The internal clock determines sleeping and waking phases, but also heart frequency, blood pressure and mood – a rhythm of biological processes mainly controlled and supported by light. Hormones, especially cortisol and melatonin, are the most active ones. If the body lacks light as a timer or clock, the result can be chronic fatigue, sleep disorders or depressions.

PULSE VTL (Visual Timing Light) ensures motivating light in the office. Throughout the day. The innovative light management system brings the dynamics of natural daylight to the interior of the building and expands the emotional and ergonomic aspects of light quality. Biodynamic light can provide lasting well-being of the employees at the workplace especially in offices with insufficient daylight and

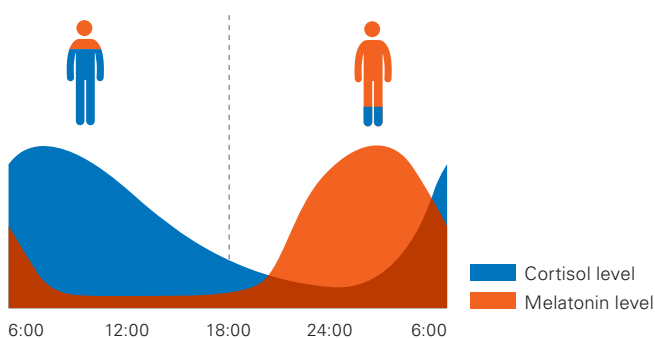
also during the winter months when the internal clock is barely synchronised with daylight.

The innovative light management system has been developed in close cooperation with Prof. Dr. med. Dipl. Ing. Herbert Plischke, professor for light and health at the University of Munich, Faculty for Applied Sciences and Mechatronics. A biologically effective luminaire equipped with PULSE VTL changes brightness and light colour, while adapting itself to natural daylight. The greatest effect is achieved by biodynamic light if it is incident on the eye from an extensive light source (indirect lighting) and under the right angle of incidence (from the front and from above).



Light in the interaction with hormones:

Cortisol and melatonin levels of the body during a typical course of the day.



Source: licht.wissen Issue 19, © licht.de

Summarising, discussing, optimising. Waldmann is a member of the research groups that are studying the topic of human centric lighting at LightingEurope and ZVEI. LightingEurope represents the European lighting industry with over 1 000 manufacturers. The Central Association of Electrical and Electronic Manufacturers (ZVEI) is the representative of the most innovative industry sector in Germany.

ZVEI:
Die Elektroindustrie

LIGHTINGEUROPE



Morning: The hormone cortisol is produced in the body in the morning. It stimulates the metabolism and programs the body for day mode. The first morning light suppresses the production of the sleep hormone melatonin. PULSE VTL supports the activity of the stress hormone cortisol at the beginning of office work by stimulating cold-tone light and high illuminance values.



Noon: The levels of cortisol decrease over the course of the day. However, good performance levels of the office workers are still maintained around midday. For PULSE VTL, this means that it continues providing mainly activating cold-tone light and high illuminance values.



Afternoon: In the afternoon, the production of cortisol in the body has already decreased significantly, with the active working phase approaching its end. The production of the sleep hormone is not yet required at this moment. PULSE VTL supports this transitional period by means of a neutral mixed light. The illuminance is gradually reduced.



Evening: The melatonin hormone makes workers tired and reduces the activity in favour of night sleep. With biodynamic light during the day, the melatonin level is correspondingly high during the night. The person sleeps well and is rested and productive the next day. PULSE VTL supports the transition to the rest phase through reduced brightness and relaxing warm tone light.



PULSE light management systems.
Smart, holistic lighting solutions.



Lighting is often planned with no regard to people and their workplace. It is not unusual that the largest part of energy is wasted for light in empty offices, corridors and lobbies – during the evening, in the night or even during the day. To prevent such misuse, Waldmann has developed PULSE, smart holistic light management systems, which allow energy saving by means of modern technologies such as presence detectors and daylight sensor systems at a whole new level.

However, the PULSE light management systems make not only a decisive contribution to energy saving and reduction of the CO₂ load. Just as important for Waldmann

during the development are the aspects of comfort, well-being and health. Thus, all PULSE solutions are characterised by their easy installation, commissioning and operation, which saves time, money and energy. With a unique range of modern presence detector systems, including among other things human centric lighting, the PULSE light management systems by Waldmann ensure not only high energy efficiency but also more safety, well-being and productivity at the workplace.

PULSE light management systems

PULSE VTL

Human centric lighting, based on natural daylight

PULSE TALK

Innovative wireless module for the communication of luminaire groups

PULSE HFMD

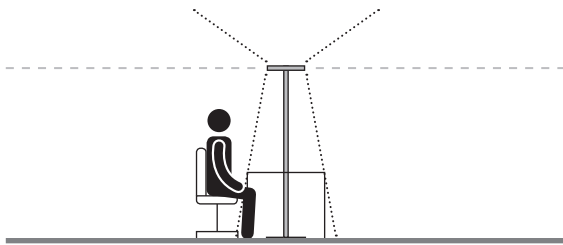
Highly sensitive presence detection, detects even the slightest movements

PULSE PIR

Smart motion and daylight sensors based on passive infrared

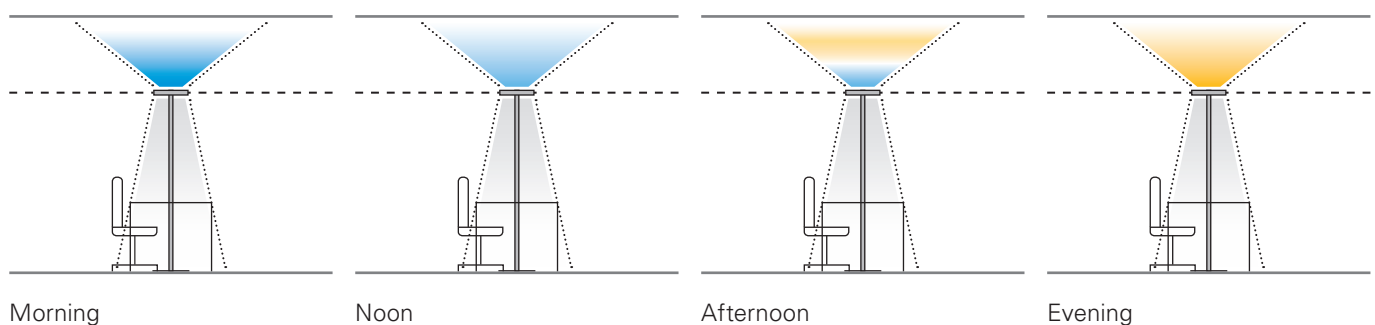
PULSE VTL for free-standing luminaires

- Light management system for biodynamic light
- Plug and light: The system is integrated into the luminaires, no connection to building automation being required
- Simulates the light according to the natural light of the corresponding time of the day
- Automatically changes the indirect light amount and light colour from 6500 K to 3000 K in real time
- Individually adjustable, direct working light in the neutral light colour of 4000 K
- Can be combined with PULSE TALK and PULSE HFMD/PIR



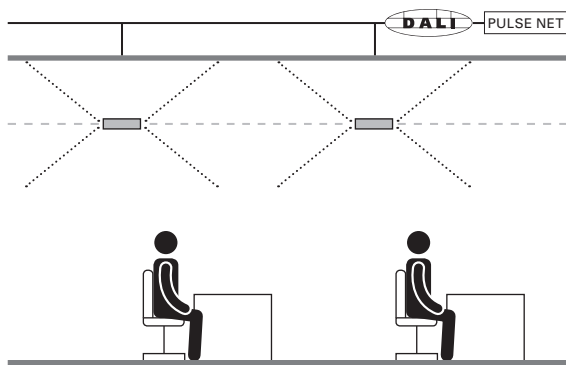
PULSE VTL is integrated into LED free-standing luminaires, which makes commissioning quick and easy. Light colour and brightness are adapted to the actual time of the day. Intensity and light colour change according to a scientifically defined regulating curve. Since it is set ex factory, manipulation or operating errors by the user are prevented. The light colour of indirect light varies between 6500 and 3000 K, which comes closest to natural light and is per-

ceived as pleasant by the user. Individual presettings are possible in the Expert mode. For optimum visual comfort, the proportion of direct light can be set individually. The light colour of 4000 K is neutral and does not change.



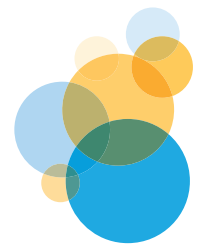
PULSE VTL for room luminaires

- Light management system for biodynamic light
- System is integrated into the external controller PULSE NET
- Several biodynamic suspended, recessed or surface-mounted luminaires are connected to PULSE NET via DALI
- Simulates the light according to the natural light of the corresponding time of the day
- Automatically changes the indirect and direct light amount and light colour from 6500 K to 3000 K

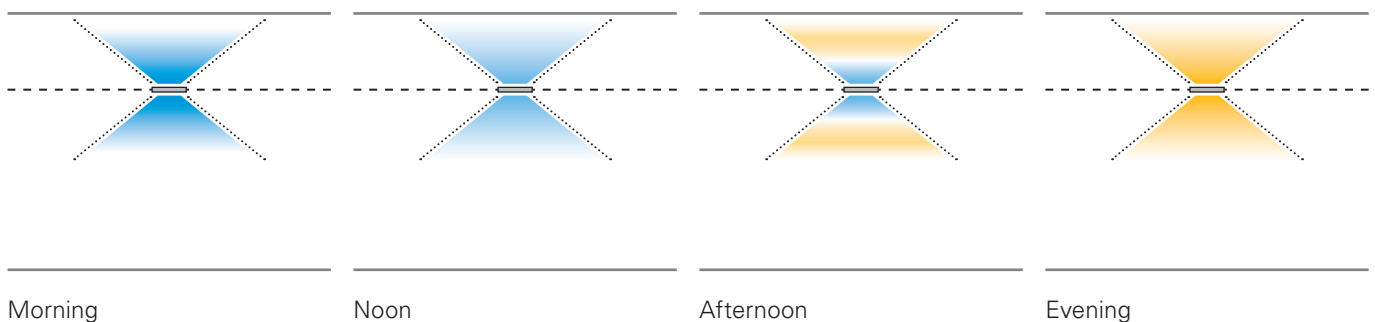


PULSE VTL offers biodynamic lighting using room luminaires adapted to the course of the day in a time-controlled manner. The latest scientific findings and practical experience are used at the same time. Suspended, recessed or surface-mounted luminaires are connected via DALI to the external controller PULSE NET. The controller is mounted in the building and provides information on light level and light colour to several luminaires in real time. Since the room

luminaires are usually located further away from the workplaces, individual influence is hardly possible. The biological mode of action is obtained primarily with homogenous light impression of the linked luminaires. The adjustment of light colour and brightness is generated in the direct and indirect light component.



PULSE VTL



PULSE TALK

- Innovative wireless module
- Communication between several luminaires
- Pleasant lighting scenario without "light islands"
- A compact component, easy to install, program and operate
- For a better working atmosphere and higher performance
- Can be combined with PULSE VTL, PULSE HFMD and PULSE PIR



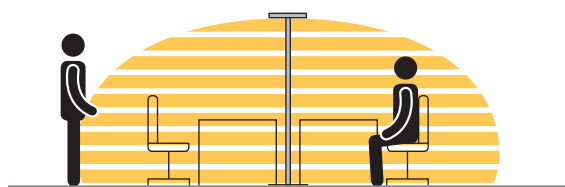
Changing presence of employees in offices by means of presence- and daylight-dependent luminaires leads to the formation of the so-called "light islands": The employee's desk is illuminated while the rest of the room is not illuminated. The innovative wireless module PULSE TALK prevents it: It allows communication between luminaires assigned to different areas and groups. If a luminaire of a group detects the presence of employees, it

reports the information to the other group members. They illuminate the direct office environment on a pleasant basic level. Enhanced user comfort with low effort: The wireless module can be retrofitted in just a few easy steps.



PULSE HFMD

- Innovative, highly sensitive multichannel presence and daylight sensor system
- Even the slightest motions are detected
- Temperature-dependent function
- The light output is regulated according to the daylight level.
- Reduction of power consumption of individual luminaires by up to 50 %
- Can be combined with PULSE VTL and PULSE TALK



A unique sensor system PULSE HFMD (High Frequency Motion Detector) developed by Waldmann. The innovative, highly sensitive system detects even the slightest motions within a defineable field. Accordingly, the luminaires are switched on if someone enters the room and go out automatically. Furthermore, the light output is regulated according to the daylight level. In this way, the power consumption of individual luminaires is reduced by up

to 50% in comparison to the installed power. PULSE HFMD functions independently of the temperature, analyses a large detection range and registers the presence of personnel even if there are no significant movements over a certain period of time.

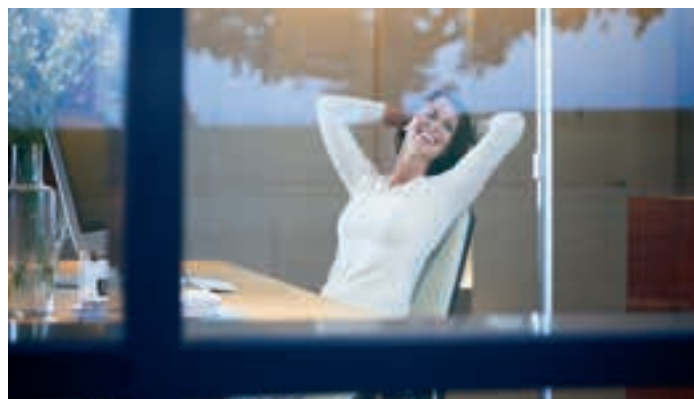
PULSE PIR

- Conventional motion and daylight sensor system
- Temperature-dependent function based on passive infrared
- Luminaires are switched on only if personnel is present or daylight is not sufficient
- Energy saving of up to 50 % possible
- Can be combined with PULSE TALK



The presence and daylight sensor system PULSE PIR functions depending on the temperature. The motion sensors based on passive infrared are used to reliably detect the presence of personnel within a defined range. As a result, the luminaires are only switched on if the sensor detects motion in the room or if the daylight is not sufficient anymore.

This intelligent technology allows significant energy savings.



Good light for the whole room. There is a multitude of options to illuminate an office building. Architecture, space utilisation, type of work and work sequence must be considered in order to obtain an optimum solution. With a comprehensive product range, Waldmann provides answers to all requirements, even for integration into smart control systems and building automation.



Suspended luminaires

Along with extensive lighting of the room, suspended luminaires combine efficient direct lighting of the workplace with indirect brightening of the ceiling, perceived as pleasant.



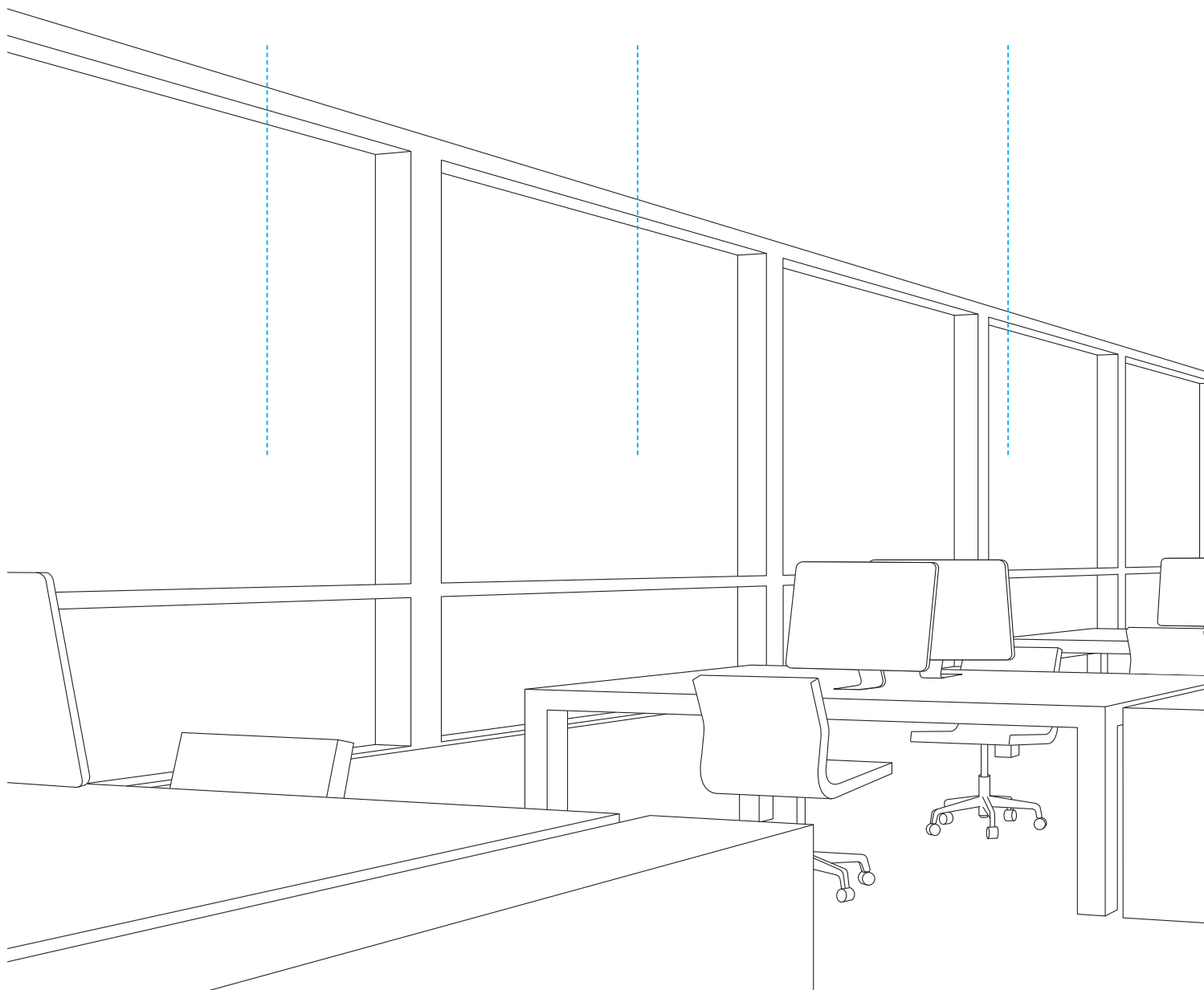
Task luminaires

Task luminaires provide additional light at workplaces and facilitate difficult visual tasks. Dimmability and movable luminaire arms increase functionality and comfort.



Free-standing luminaires

Since the free-standing luminaires are a mobile solution, they should be adapted to the room and furniture. Ideally, they combine direct and indirect light, which can be dimmed and regulated individually.





Desk-mounted luminaires

Since the desk-mounted luminaires are connected directly to the desk, they should be less pronounced visually in order to blend in with different design styles.



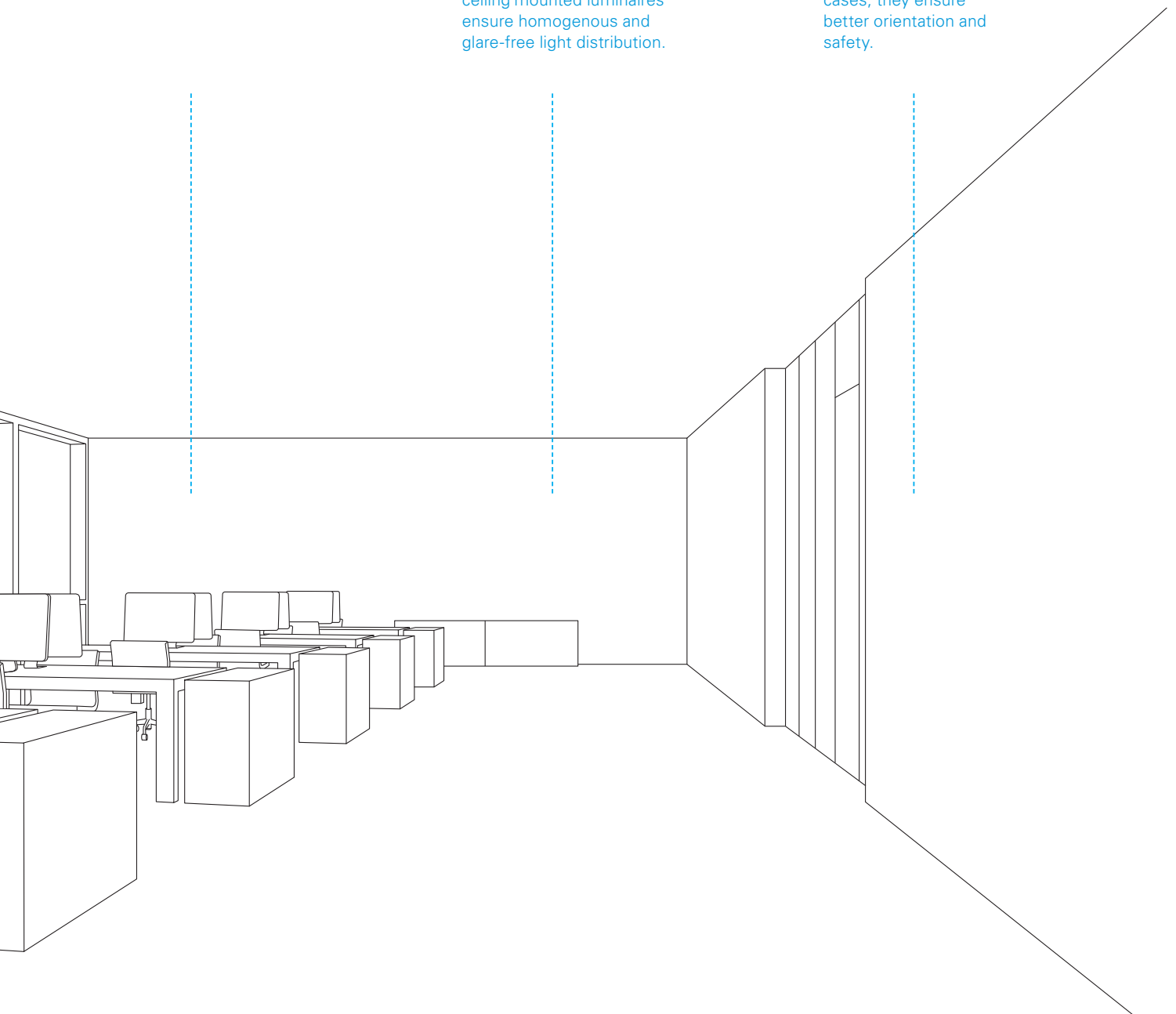
Recessed and surface-mounted luminaires

The recessed ceiling luminaires fitted flush in the ceiling display their action less through their design and more through pure light. Thanks to microstructures which redirect the light, the ceiling mounted luminaires ensure homogenous and glare-free light distribution.



Wall-mounted luminaires

Wall-mounted luminaires are used either for directed lighting in the building or for effective focusing on architectural aspects. In corridors and staircases, they ensure better orientation and safety.



**Suitable light for any situation:
Planning the lighting concepts.**



For cellular and group offices: Correct lighting is the basis for vision, work, atmosphere, and productivity. Professional planning considers all parameters relating to the visual tasks at an office workplace. Thanks to the workplace regulation ASR A3.4, all relevant requirements of the workplace Ordinance are complied with. The DIN EN 12464-1 standard defines lighting for the room area, activity area and visual task area surrounded by the direct background area. Basically, the procedure for planning can be as follows:

Space-related lighting.

It ensures uniform light in the entire room. This lighting concept is recommended if the arrangement of workplaces is to be flexible. Lighting is usually implemented by means of suspended luminaires with direct/indirect beam pattern or wide-area recessed or surface-mounted ceiling luminaires.

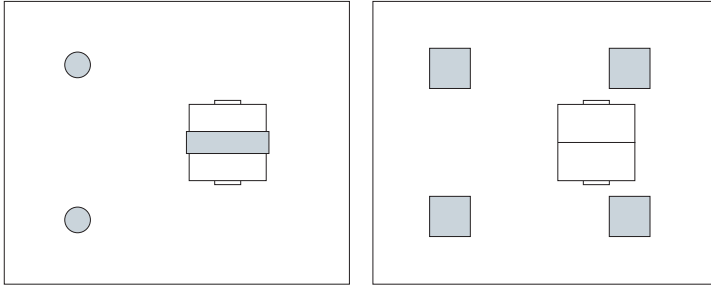
Workplace-related

lighting. Suitable concept for workplaces with different visual tasks which require different individual illuminance values. It allows good separation of working islands from each other. The working areas are illuminated with minimum 500 lux, the direct background area (without a margin area of 0.5 m) being illuminated with minimum 300 lux.

Suitable for workplace-related lighting are suspended, desk-mounted or free-standing luminaires with direct/indirect light distribution.

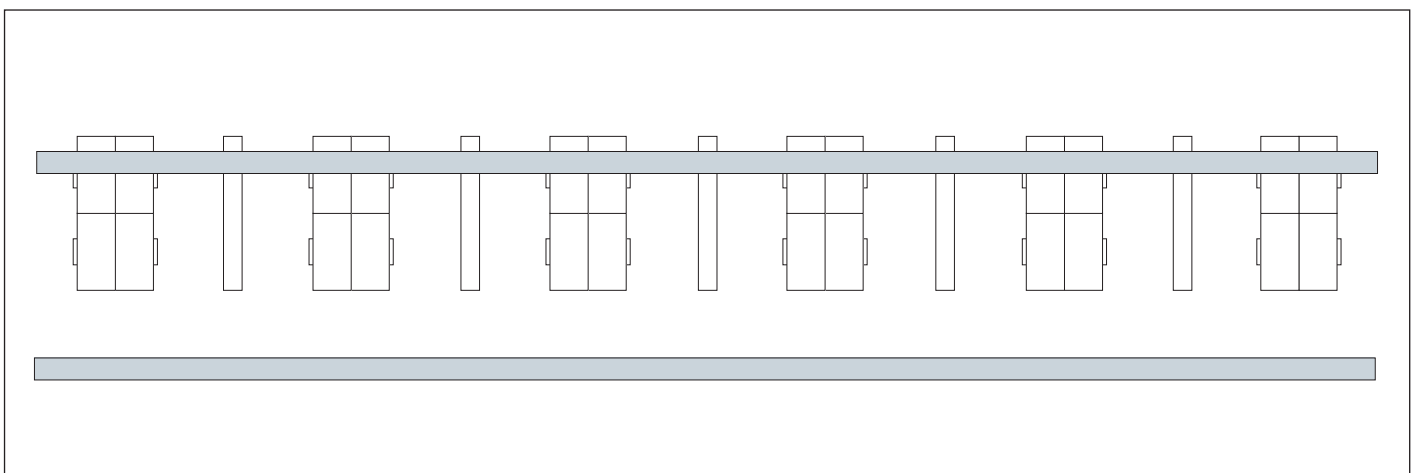
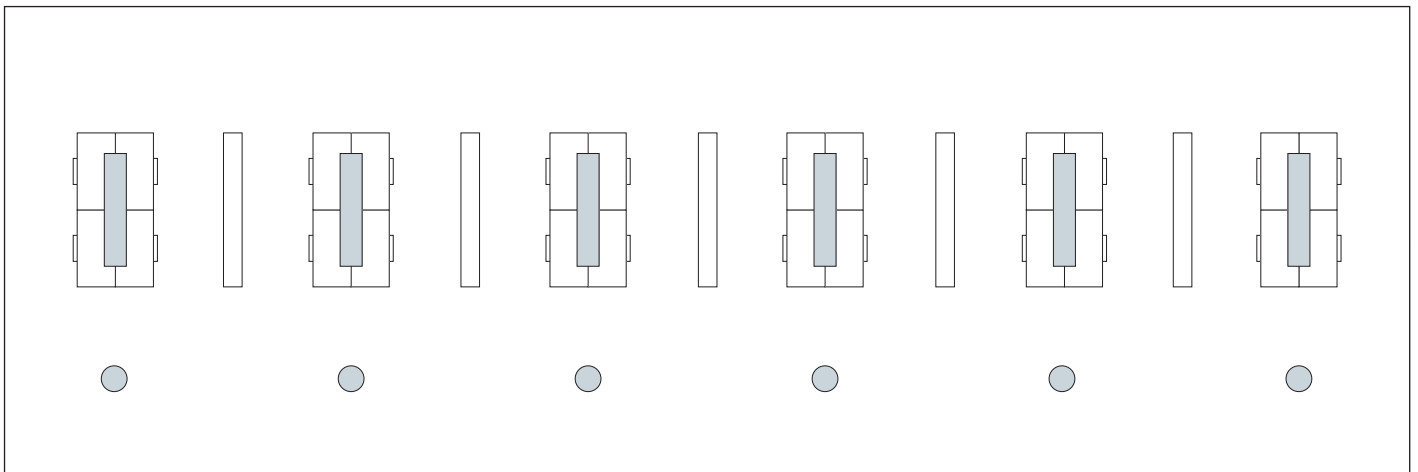
Partial area lighting.

For particularly demanding visual tasks, it is advisable to use specific lighting of individual areas of a workplace. Thus, for example, the working surface on the desk can be illuminated by task luminaires to provide additional light. Standard-compliant lighting ensures appropriate lighting of all working areas.



Cellular offices. A cellular office usually has two workplaces which can be illuminated both in a space-related and in a workplace-related manner.

Group offices. Group offices with several workplaces and required common area can also be illuminated in a space- and workplace-related manner.





LAVIGO ATARO TYCOON



LAVIGO ATARO TYCOON



LAVIGO IDOO.pendant IDOO.line HYBRID ATARO TYCOON VIVAA



IDOO.fit DOTOO.fit DOTOO.spot



ATARO TYCOON



PARA.MI MINELA MAIA DIVA



FREE-STANDING
LUMINAIRES

24

DESK-MOUNTED
LUMINAIRES

52



SUSPENDED LUMINAIRES

72

RECESSED AND SURFACE-
MOUNTED LUMINAIRES

100

WALL-MOUNTED
LUMINAIRES

112



AVENUE

TANEO

TASK LUMINAIRES

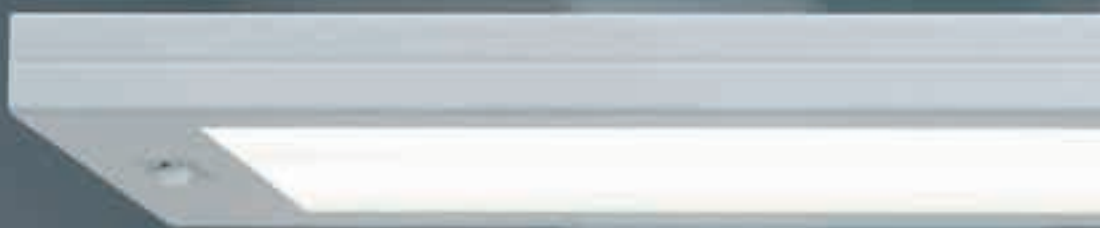
118



ACCESSORIES

138





FREE-STANDING LUMINAIRES



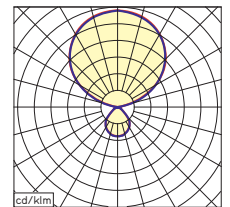
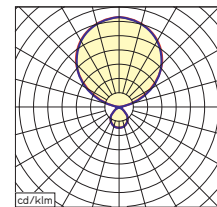
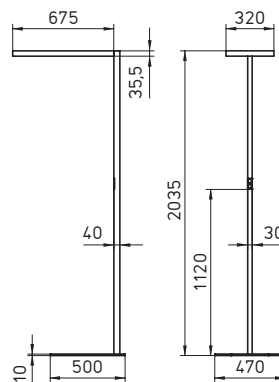
FREE-STANDING LUMINAIRES **LAVIGO**



LAVIGO



Possible positions.



LAVIGO at a glance

- Performance level for highest lighting demands
- Optimised ratio of direct to indirect light for standard-compliant, uniform illumination of large light calculation surfaces
- Easy-to-reach, multifunctional operating element
- Human centric lighting VTL for office workplaces

LAVIGO technical data

	12000 lm	11500 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 122 lm/W
Light distribution (direct/indirect)	approx. 15 % / 85 %	approx. 17 % / 83 %
Luminance	< 2500 cd/m ²	< 2800 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 18.4 kg	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
12000 lm	approx. 104 W	PULSE dimmable	DPS 372/D	121 708 000 - 006 307 35	121 708 000 - 006 348 94
12000 lm	approx. 104 W	PULSE PIR	DPS 372/R	121 707 000 - 006 307 32	121 707 000 - 006 346 40
12000 lm	approx. 104 W	PULSE HFMD	DPS 372/P	121 695 000 - 006 102 08	121 695 000 - 006 257 13

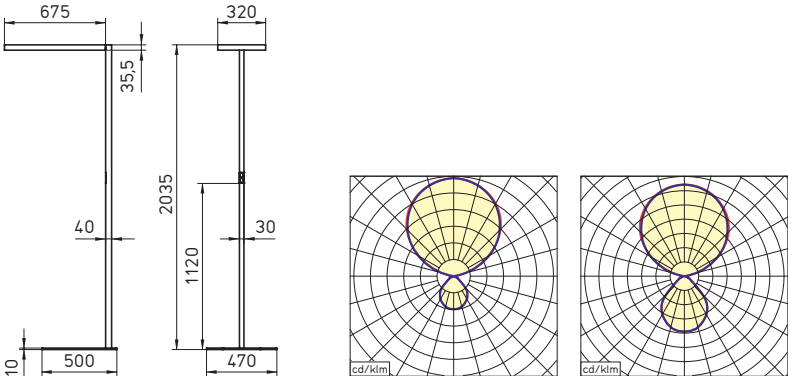
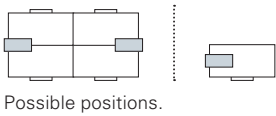
Light colour VTL 3000 K – 6500 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
11500 lm	approx. 94 W	PULSE HFMD	DPS 480/P	121 715 000 - 006 307 58	121 715 000 - 006 441 30





LAVIGO



LAVIGO at a glance

- Performance level for classical lighting requirements
- Optimised ratio of direct to indirect light for standard-compliant illumination
- Easy-to-reach, multifunctional operating element

LAVIGO technical data

	8600 lm	5700 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 116 lm/W
Light distribution (direct/indirect)	approx. 20 %/80 %	approx. 30 %/70 %
Luminance	< 2500 cd/m²	
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 18.4 kg	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

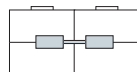
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
8600 lm	approx. 75 W	PULSE dimmable	DPS 288/D	121 711 000 - 006 307 44	121 711 000 - 006 358 93
8600 lm	approx. 75 W	PULSE PIR	DPS 288/R	121 710 000 - 006 307 41	121 710 000 - 006 357 51
8600 lm	approx. 75 W	PULSE HFMD	DPS 288/P	121 709 000 - 006 307 38	121 709 000 - 006 350 21
5700 lm	approx. 49 W	PULSE PIR	DPS 240/R	121 713 000 - 006 307 50	121 713 000 - 006 360 25



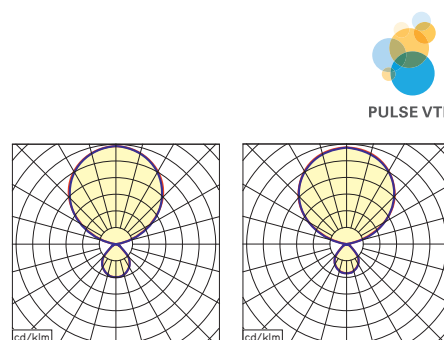
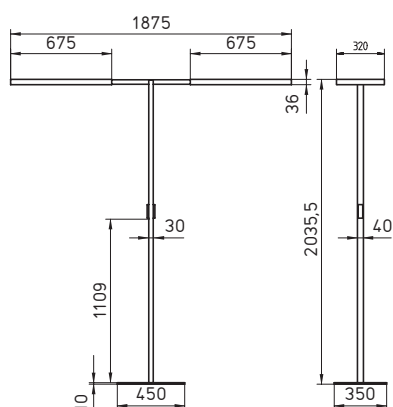


LAVIGO

TWIN-T



Possible positions.



LAVIGO at a glance

- Performance level for classical requirements
- Optimised ratio of direct to indirect light for standard-compliant, uniform illumination of large light calculation surfaces. For example, up to four workplaces can be illuminated with a centrally positioned LAVIGO TWIN-T
- Human centric lighting VTL for office workplaces

LAVIGO technical data

	17200 lm	23000 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 122 lm/W
Light distribution (direct/indirect)	approx. 20 %/80 %	approx. 17 %/83 %
Luminance	< 2500 cd/m ²	< 2800 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 25.8 kg	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
17200 lm	approx. 150 W	PULSE PIR	DPS 576/R	Control button in the luminaire head	121 712 000 - 006 426 92	121 712 000 - 006 426 98
17200 lm	approx. 150 W	PULSE PIR	DPS 576/R	Control panel in tubular section	121 728 000 - 006 569 89	121 728 000 - 006 570 01

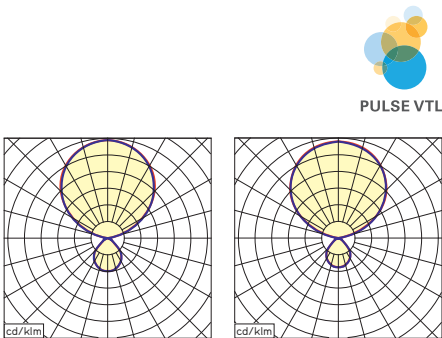
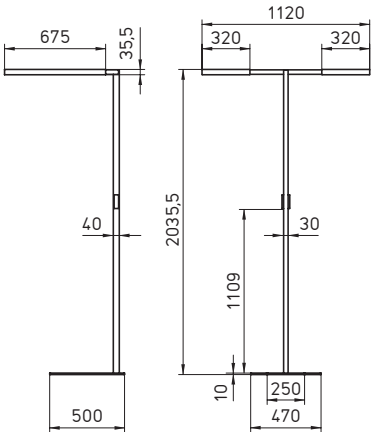
Light colour VTL 3000 K – 6500 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
23000 lm	approx. 188 W	PULSE HFMD	DPS 960/P	Control panel in tubular section	121 747 000 - 006 797 03	121 747 000 - 006 797 09

LAVIGO TWIN-U



Possible positions.



LAVIGO at a glance

- Performance level for classical requirements
- Optimised ratio of direct to indirect light for standard-compliant, uniform illumination of large lighting calculation surfaces. For example, a laterally positioned LAVIGO TWIN-U can supply light to two desks situated opposite each other with partition wall and shelf surfaces
- Human centric lighting VTL for office workplaces

LAVIGO technical data

	11400 lm	23000 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 122 lm/W
Light distribution (direct/indirect)	approx. 30 % / 70 %	approx. 17 % / 83 %
Luminance	< 2500 cd/m²	< 2800 cd/m²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 26.4 kg	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
11400 lm	approx. 99 W	PULSE PIR	DPS 480/R	Control button in the luminaire head	121 714 000 - 006 307 53	121 714 000 - 006 429 82
11400 lm	approx. 99 W	PULSE PIR	DPS 480/R	Control panel in tubular section	121 729 000 - 006 570 46	121 729 000 - 006 570 52

Light colour VTL 3000 K – 6500 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
23000 lm	approx. 188 W	PULSE HFMD	DPS 960/P	Control panel in tubular section	121 748 000 - 006 798 80	121 748 000 - 006 798 86

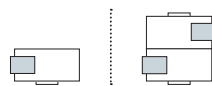


FREE-STANDING LUMINAIRES

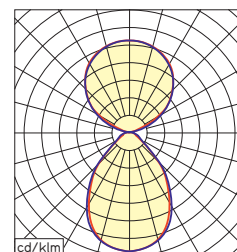
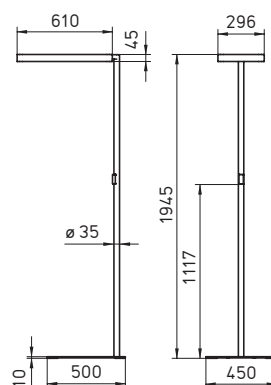
ATARO



ATARO LED



Possible positions.



ATARO LED at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology

ATARO LED technical data

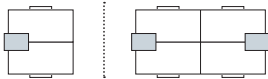
5800 lm

Luminaire light efficiency	approx. 116 lm/W
Light distribution (direct/indirect)	approx. 44 % / 56 %
Luminance	< 3000 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 18.0 kg
Mains connection	Cable with mains plug, length approx. 3 m

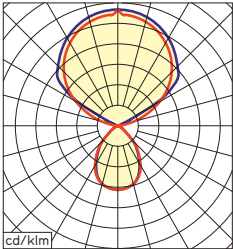
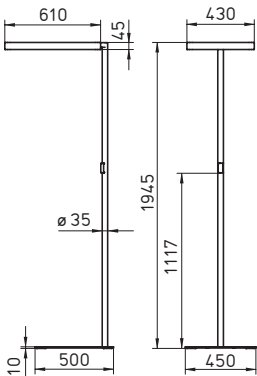
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
5800 lm	approx. 50 W	PULSE PIR	DUS 528/R	121 675 000 - 005 832 86	121 675 000 - 005 834 52
5800 lm	approx. 50 W	PULSE HFMD	DUS 528/P	121 671 000 - 005 700 97	121 671 000 - 005 834 40

ATARO LED



Possible positions.



ATARO LED at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

ATARO LED technical data

9800 lm

Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 27 % / 73 %
Luminance	< 2500 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 19 kg
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

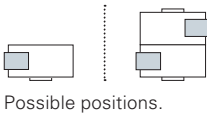
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DUS 504/D*	121 660 000 - 005 565 95	121 660 000 - 005 565 98
9800 lm	approx. 86 W	PULSE PIR	DUS 504/R	121 659 000 - 005 494 57	121 659 000 - 005 497 50
9800 lm	approx. 86 W	PULSE HFMD	DUS 504/P	121 642 000 - 005 352 08	121 642 000 - 005 494 48
9800 lm	approx. 86 W	PULSE HFMD	DUS 504/P*		121 688 000 - 005 992 48



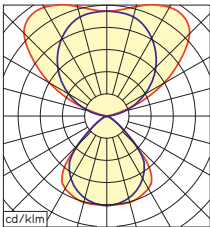
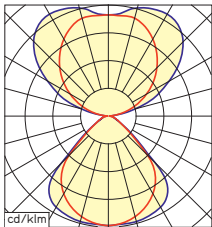
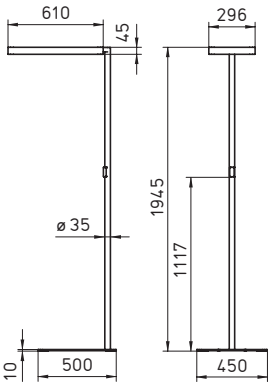




ATARO



Possible positions.



ATARO at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Removable frame and prism disk for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying AMBIO microprisms

ATARO technical data

2 x 26 W

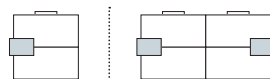
2 x 40 W

Luminaire light efficiency	approx. 79 lm/W	approx. 63 lm/W
Light distribution (direct/indirect)	approx. 38 %/62 %	approx. 30 %/70 %
Luminance	< 1600 cd/m²	< 1200 cd/m²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Structured cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A	
Degree of protection	IP 20	
Weight (net)	approx. 18 kg	
Mains connection	Cable with mains plug, length approx. 3 m	

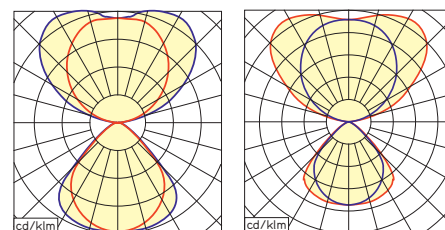
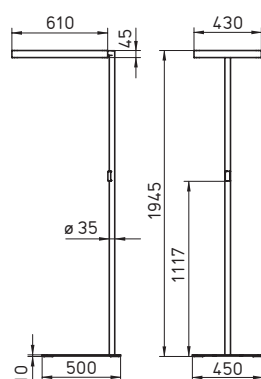
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
2 x TC-LEL 26 W	approx. 61 W	PULSE PIR	DUS 226/R		121 683 000 - 005 873 54
2 x TC-LEL 26 W	approx. 61 W	PULSE HFMD	DUS 226/P		121 641 000 - 005 328 20
2 x TC-LEL 40 W	approx. 83 W	PULSE PIR	DUS 240/R	121 211 001 - 000 389 53	121 211 002 - 000 576 23
2 x TC-LEL 40 W	approx. 83 W	PULSE HFMD	DUS 240/P	121 212 001 - 000 387 14	121 212 002 - 000 576 45

ATARO



Possible positions.



ATARO at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Removable frame and prism disk for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying AMBIO microprisms

ATARO technical data

	4 x 26 W	4 x 40 W
Luminaire light efficiency	approx. 77 lm/W	approx. 63 lm/W
Light distribution (direct/indirect)	approx. 38 % / 62 %	approx. 30 % / 70 %
Luminance	< 2500 cd/m ²	< 1200 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Structured cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A	
Degree of protection	IP 20	
Weight (net)	approx. 18 kg	approx. 19 kg
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

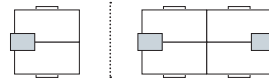
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
4 x TC-LEL 26 W	approx. 123 W	PULSE switchable	DUS 426/2	121 612 011 - 005 158 34	121 612 012 - 005 158 87
4 x TC-LEL 26 W	approx. 123 W	PULSE PIR	DUS 426/R	121 614 011 - 005 158 40	121 614 012 - 005 158 93
4 x TC-LEL 26 W	approx. 123 W	PULSE HFMD	DUS 426/P	121 615 011 - 005 158 43	121 615 012 - 005 158 96
4 x TC-LEL 40 W	approx. 165 W	PULSE switchable	DUS 440/2	121 220 011 - 000 500 40	121 220 012 - 000 604 41
4 x TC-LEL 40 W	approx. 165 W	PULSE PIR	DUS 440/R	121 223 001 - 000 393 97	121 223 002 - 000 579 65
4 x TC-LEL 40 W	approx. 165 W	PULSE HFMD	DUS 440/P	121 222 001 - 000 318 22	121 222 002 - 000 579 90

FREE-STANDING LUMINAIRES

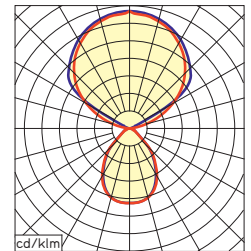
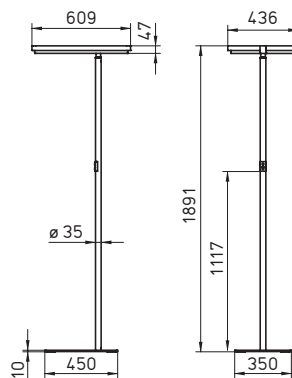
TYCOON



TYCOON LED



Possible positions.



TYCOON LED at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

TYCOON LED technical data

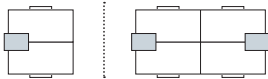
9800 lm

Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 2700 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 19.0 kg
Mains connection	Cable with mains plug, length approx. 3 m

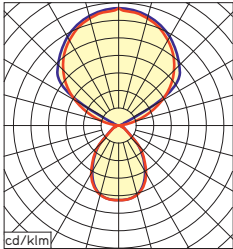
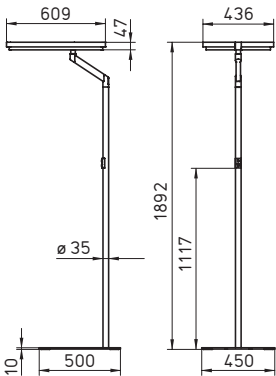
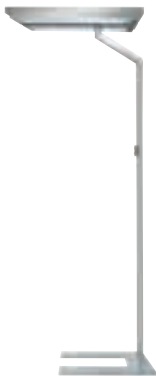
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DYS 504/D*	121 652 000 - 005 565 61	121 652 000 - 005 565 64
9800 lm	approx. 86 W	PULSE PIR	DYS 504/R	121 651 000 - 005 476 15	121 651 000 - 005 481 70
9800 lm	approx. 86 W	PULSE HFMD	DYS 504/P	121 650 000 - 005 476 12	121 650 000 - 005 478 29

TYCOON LED



Possible positions.



TYCOON LED at a glance

- Two individually adjustable lighting levels
- Multifunctional operating element easy to reach
- Luminaire head can be rotated by +/- 90°
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

TYCOON LED technical data

9800 lm

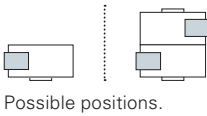
Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 2 700 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 20.5 kg
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

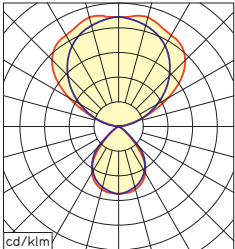
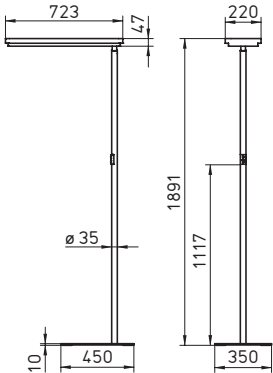
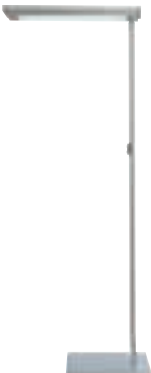
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DYS 504/D*	121 649 000 - 005 565 49	121 649 000 - 005 565 52
9800 lm	approx. 86 W	PULSE PIR	DYS 504/R	121 648 000 - 005 476 06	121 648 000 - 005 481 30
9800 lm	approx. 86 W	PULSE HFMD	DYS 504/P	121 643 000 - 005 355 60	121 643 000 - 005 475 94
9800 lm	approx. 86 W	PULSE HFMD	DYS 504/P*		121 689 000 - 006 001 50



TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Removable side part and diffusing panel for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying CDP microprisms

TYCOON COMFORT technical data

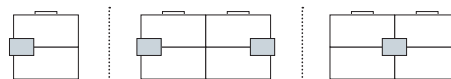
2 x 55 W

Luminaire light efficiency	approx. 61 lm/W
Light distribution (direct/indirect)	approx. 24 % / 76 %
Luminance	< 800 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 17.2 kg
Mains connection	Cable with mains plug, length approx. 3 m

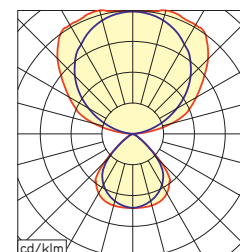
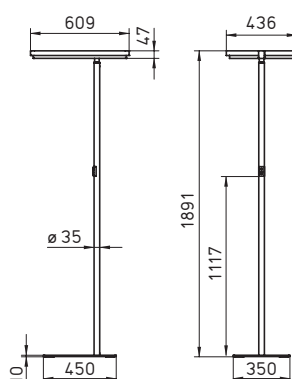
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
2 x TC-LEL 55 W	114 W	PULSE switchable	DYS 255	121 438 008 - 000 790 98
2 x TC-LEL 55 W	114 W	PULSE HFMD	DYS 255/P	121 436 008 - 000 790 87

TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Removable side part and diffusing panel for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying CDP microprisms

TYCOON COMFORT technical data

4 x 55 W

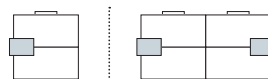
Luminaire light efficiency	approx. 59 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 1000 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 18.5 kg
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

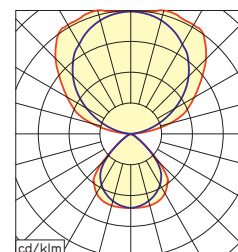
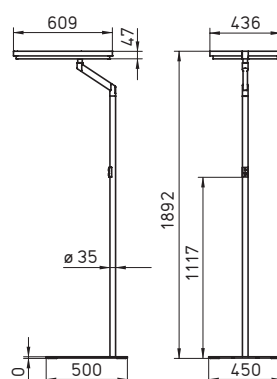
Fitted with	Consumption	Technology	Model	Order No. Silver
4 x TC-LEL 55 W	approx. 235 W	PULSE switchable	DYS 455/2	121 245 008 - 000 804 40
4 x TC-LEL 55 W	approx. 235 W	PULSE HFMD	DYS 455/P	121 250 008 - 000 805 16



TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Head connection can be rotated by +/- 45°
- Removable side part and diffusing panel for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying CDP microprisms

TYCOON COMFORT technical data

4 x 55 W

Luminaire light efficiency	approx. 59 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 1000 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 19.8 kg
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
4 x TC-LEL 55 W	approx. 235 W	PULSE switchable	DYS 455/2	121 384 008 - 000 625 27
4 x TC-LEL 55 W	approx. 235 W	PULSE HFMD	DYS 455/P	121 386 008 - 000 690 76



DESK-MOUNTED LUMINAIRES



DESK-MOUNTED LUMINAIRES

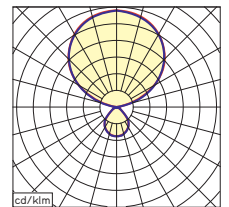
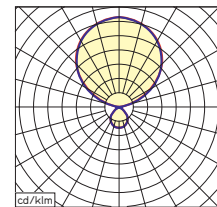
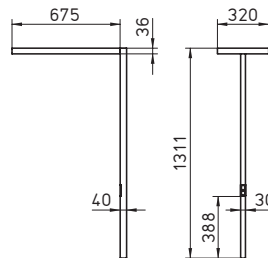
LAVIGO



LAVIGO



Possible positions.



LAVIGO at a glance

- Performance level for highest lighting demands
- Optimised ratio of direct to indirect light for standard-compliant, even illumination of large lighting calculation surfaces
- Easy-to-reach, multifunctional operating element
- Adjustable angle of inclination of the standpipe
- Human centric lighting VTL for office workplaces

LAVIGO technical data

	12000 lm	11500 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 122 lm/W
Light distribution (direct/indirect)	approx. 15 % / 85 %	approx. 17 % / 83 %
Luminance	< 2500 cd/m ²	< 2800 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 8.3 kg	
Fastening	Table adaptor (accessories)	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

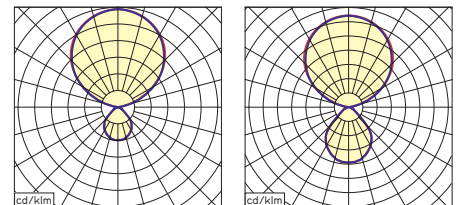
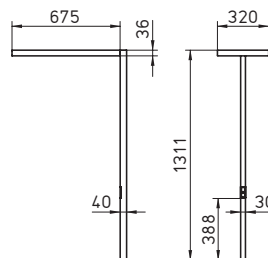
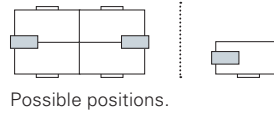
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
12000 lm	approx. 104 W	PULSE dimmable	DPT 372/D	121 718 000 - 006 307 68	121 718 000 - 006 602 81
12000 lm	approx. 104 W	PULSE PIR	DPT 372/R	121 717 000 - 006 307 65	121 717 000 - 006 669 56
12000 lm	approx. 104 W	PULSE HFMD	DPT 372/P	121 716 000 - 006 307 62	121 716 000 - 006 669 45

Light colour VTL 3000 K – 6500 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
11500 lm	approx. 94 W	PULSE HFMD	DPT 480/P	121 725 000 - 006 307 92	121 725 000 - 006 675 15



LAVIGO



LAVIGO at a glance

- Performance level for classical lighting applications
- Optimised ratio of direct to indirect light for standard-compliant illumination
- Easy-to-reach, multifunctional operating element
- Adjustable angle of inclination of the standpipe

LAVIGO technical data

	8600 lm	5700 lm
Luminaire light efficiency	approx. 115 lm/W	approx. 116 lm/W
Light distribution (direct/indirect)	approx. 20 % / 80 %	approx. 30 % / 70 %
Luminance	< 2500 cd/m ²	
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 8.3 kg	
Fastening	Table adaptor (accessories)	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

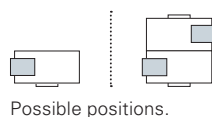
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
8600 lm	approx. 75 W	PULSE dimmable	DPT 288/D	121 721 000 - 006 307 77	121 721 000 - 006 669 92
8600 lm	approx. 75 W	PULSE PIR	DPT 288/R	121 720 000 - 006 307 74	121 720 000 - 006 669 76
8600 lm	approx. 75 W	PULSE HFMD	DPT 288/P	121 719 000 - 006 307 71	121 719 000 - 006 669 65
5700 lm	approx. 49 W	PULSE PIR	DPT 240/R	121 723 000 - 006 307 86	121 723 000 - 006 670 02

DESK-MOUNTED LUMINAIRES

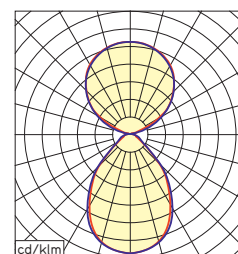
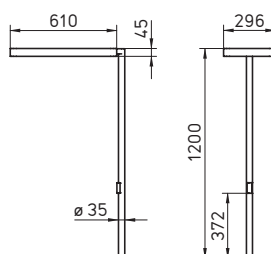
ATARO



ATARO LED



Possible positions.



ATARO LED at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology

ATARO LED technical data

5800 lm

Luminaire light efficiency	approx. 116 lm/W
Light distribution (direct/indirect)	approx. 44 % / 56 %
Luminance	< 3000 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 8.1 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

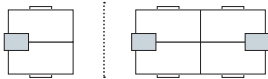
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
5800 lm	approx. 50 W	PULSE PIR	DUT 528/R	121 678 000 - 005 833 74	121 678 000 - 005 872 66
5800 lm	approx. 50 W	PULSE HFMD	DUZ 528/P	121 677 000 - 005 833 71	121 677 000 - 005 872 05

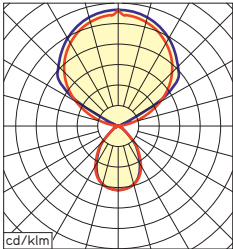
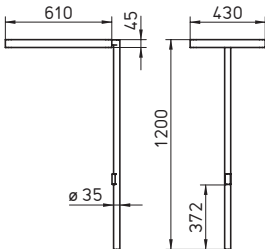




ATARO LED



Possible positions.



ATARO LED at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

ATARO LED technical data

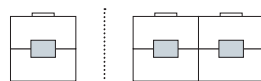
9800 lm

Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 27 % / 73 %
Luminance	< 2500 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 8.8 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

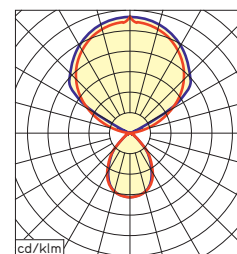
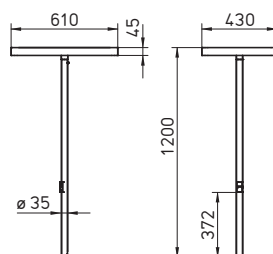
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DUT 504/D*	121 663 000 - 005 566 08	121 663 000 - 005 566 11
9800 lm	approx. 86 W	PULSE PIR	DUT 504/R	121 662 000 - 005 494 66	121 662 000 - 005 497 63
9800 lm	approx. 86 W	PULSE HFMD	DUT 504/P	121 661 000 - 005 494 63	121 661 000 - 005 495 12

ATARO LED



Possible positions.



ATARO LED at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

ATARO LED technical data

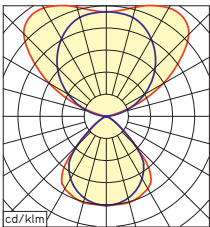
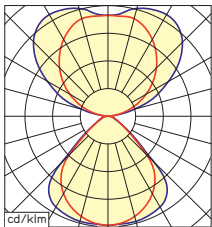
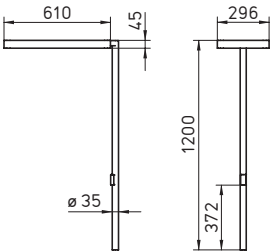
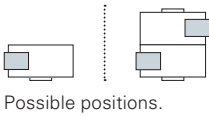
9800 lm

Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 27 % / 73 %
Luminance	< 2500 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 9 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DUT 504/D*	121 666 000 - 005 566 21	121 666 000 - 005 566 24
9800 lm	approx. 86 W	PULSE PIR	DUT 504/R	121 665 000 - 005 494 75	121 665 000 - 005 505 35
9800 lm	approx. 86 W	PULSE HFMD	DUT 504/P	121 664 000 - 005 494 72	121 664 000 - 005 502 62

ATARO



ATARO at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Removable frame and prism disk for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying AMBIO microprisms

ATARO technical data

2 x 26 W

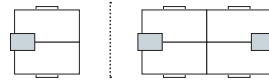
2 x 40 W

Luminaire light efficiency	approx. 79 lm/W	approx. 63 lm/W
Light distribution (direct/indirect)	approx. 38 % / 62 %	approx. 30 % / 70 %
Luminance	< 1 600 cd/m²	< 700 cd/m²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Structured cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A	
Degree of protection	IP 20	
Weight (net)	approx. 8.7 kg	
Fastening	Table adaptor (accessories)	
Mains connection	Cable with mains plug, length approx. 3 m	

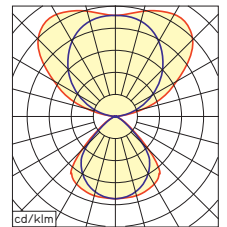
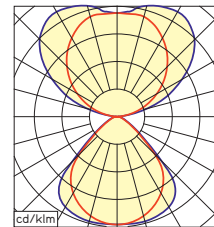
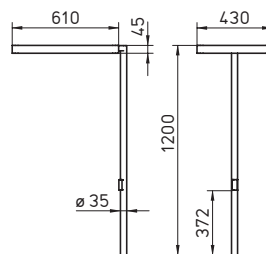
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
2 x TC-LEL 26 W	approx. 61 W	PULSE PIR	DUT 226/R	121 692 000 - 006 078 97	121 692 000 - 006 079 41
2 x TC-LEL 26 W	approx. 61 W	PULSE HFMD	DUT 226/P	121 693 000 - 006 079 83	121 693 000 - 006 079 86
2 x TC-LEL 40 W	approx. 83 W	PULSE PIR	DUT 240/R	121 539 001 - 000 397 63	121 539 002 - 000 582 07
2 x TC-LEL 40 W	approx. 83 W	PULSE HFMD	DUT 240/P	121 540 001 - 000 397 80	121 540 002 - 000 582 28

ATARO



Possible positions.



ATARO at a glance

- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Removable frame and prism disk for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying AMBIO microprisms

ATARO technical data

	4 x 26 W	4 x 40 W
Luminaire light efficiency	approx. 77 lm/W	approx. 63 lm/W
Light distribution (direct/indirect)	approx. 38 % / 62 %	approx. 30 % / 70 %
Luminance	< 2500 cd/m ²	< 1200 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Structured cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A	
Degree of protection	IP 20	
Weight (net)	approx. 10.1 kg	
Fastening	Table adaptor (accessories)	
Mains connection	Cable with mains plug, length approx. 3 m	

Light colour neutral white 4000 K

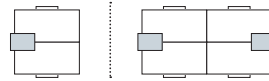
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
4 x TC-LEL 26 W	approx. 123 W	PULSE switchable	DUT 426/2	121 632 000 - 005 224 60	121 632 000 - 005 224 63
4 x TC-LEL 26 W	approx. 123 W	PULSE PIR	DUT 426/R	121 634 000 - 005 224 72	121 634 000 - 005 224 75
4 x TC-LEL 26 W	approx. 123 W	PULSE HFMD	DUT 426/P	121 635 000 - 005 224 78	121 635 000 - 005 224 81
4 x TC-LEL 40 W	approx. 165 W	PULSE switchable	DUT 440/2	121 541 011 - 000 500 85	121 541 012 - 000 607 41
4 x TC-LEL 40 W	approx. 165 W	PULSE PIR	DUT 440/R	121 543 001 - 000 399 24	121 543 002 - 000 583 47
4 x TC-LEL 40 W	approx. 165 W	PULSE HFMD	DUT 440/P	121 544 001 - 000 399 55	121 544 002 - 000 584 80

DESK-MOUNTED LUMINAIRES

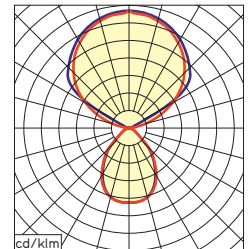
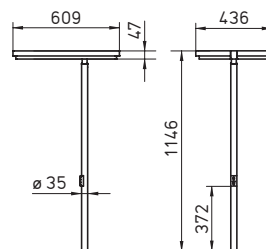
TYCOON



TYCOON LED



Possible positions.



TYCOON LED at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying CPD microprisms, incl. Light Forming Technology
- Separate switching or dimming of direct and indirect light*

TYCOON LED technical data

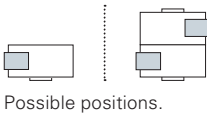
9800 lm

Luminaire light efficiency	approx. 114 lm/W
Light distribution (direct/indirect)	approx. 28 % / 72 %
Luminance	< 2150 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 8 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

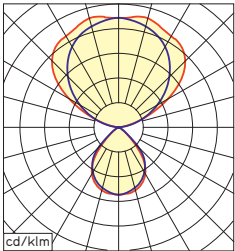
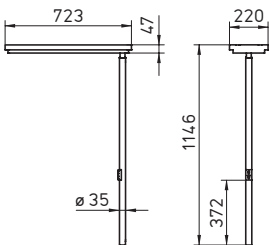
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9800 lm	approx. 86 W	PULSE dimmable	DUT 504/D*	121 655 000 - 005 565 73	121 655 000 - 005 565 76
9800 lm	approx. 86 W	PULSE PIR	DUT 504/R	121 654 000 - 005 476 24	121 654 000 - 005 481 87
9800 lm	approx. 86 W	PULSE HFMD	DUT 504/P	121 653 000 - 005 476 21	121 653 000 - 005 479 11

TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Removable side part and diffusing panel for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying CDP microprisms

TYCOON COMFORT technical data

2 x 55 W

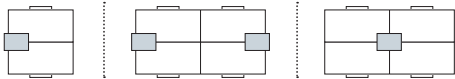
Luminaire light efficiency	approx. 61 lm/W
Light distribution (direct/indirect)	approx. 24 % / 76 %
Luminance	< 800 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 6.3 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

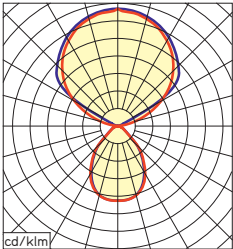
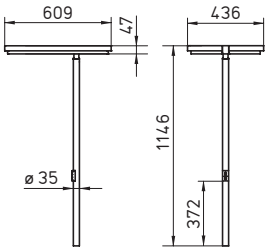
Fitted with	Consumption	Technology	Model	Order No. Silver
2 x TC-LEL 55 W	114 W	PULSE switchable	DYT 255	121 448 008 - 000 791 93
2 x TC-LEL 55 W	114 W	PULSE HFMD	DYT 255/P	121 446 008 - 000 791 83



TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Removable side part and diffusing panel for easy lamp replacement and cleaning
- Glare-free technology with light-amplifying CDP microprisms

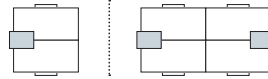
TYCOON COMFORT technical data 4 x 55 W

Luminaire light efficiency	approx. 59 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 1 000 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 7.6 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

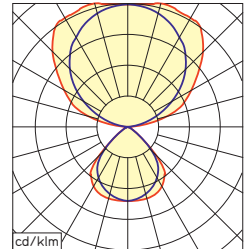
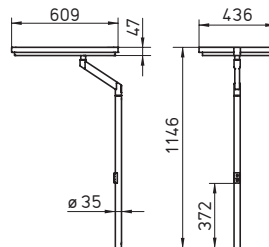
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
4 x TC-LEL 55 W	approx. 235 W	PULSE switchable	DYT 455/2	121 256 008 - 000 805 95
4 x TC-LEL 55 W	approx. 235 W	PULSE HFMD	DYT 455/P	121 260 008 - 000 807 41

TYCOON COMFORT



Possible positions.



TYCOON COMFORT at a glance

- Two individually adjustable lighting levels
- Easy-to-reach, multifunctional operating element
- Luminaire head can be rotated by +/- 90°
- Head connection can be rotated by +/- 45°
- Closed luminaire head with cover
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology

TYCOON COMFORT technical data

4 x 55 W

Luminaire light efficiency	approx. 59 lm/W
Light distribution (direct/indirect)	approx. 25 % / 75 %
Luminance	< 1000 cd/m²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 9.4 kg
Fastening	Table adaptor (accessories)
Mains connection	Cable with mains plug, length approx. 3 m

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
4 x TC-LEL 55 W	approx. 235 W	PULSE switchable	DYT 455/2	121 391 008 - 000 625 90
4 x TC-LEL 55 W	approx. 235 W	PULSE HFMD	DYT 455/P	121 393 008 - 000 690 57

SUSPENDED LUMINAIRES

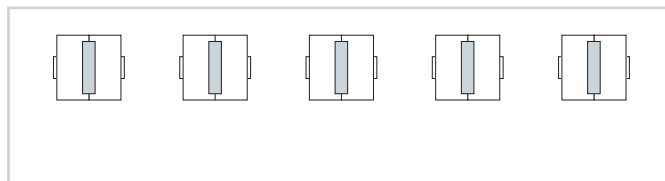




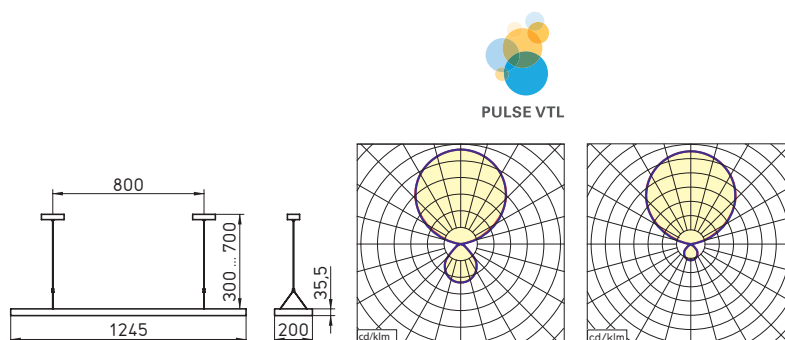
SUSPENDED LUMINAIRES **LAVIGO**



LAVIGO



Possible positions.



LAVIGO at a glance

- Closed luminaire body with cover
- Direct light with Light Forming technology for uniform light distribution
- Connection to DALI light management systems
- Biodynamic light PULSE VTL (Accessories: Controller PULSE NET required)
- Easy mounting, ballasts integrated into the luminaire

LAVIGO technical data

	9200 lm	15400 lm
Luminaire light efficiency	approx. 114 lm/W	approx. 113 lm/W
Light distribution (direct/indirect)	approx. 22 %/78 %	approx. 11 %/89 %
Luminance	< 2800 cd/m ²	< 2100 cd/m ²
UGR	< 16	< 10
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	6.5 kg	6.8 kg
Mains connection	approx. 1 m; with free strand/cable ends	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9200 lm	81 W	DALI	DPP 288/D	121 740 000 - 006 787 44	121 740 000 - 006 787 47
15400 lm	136 W	DALI	DPP 456/D	121 741 000 - 006 750 14	121 741 000 - 006 776 21

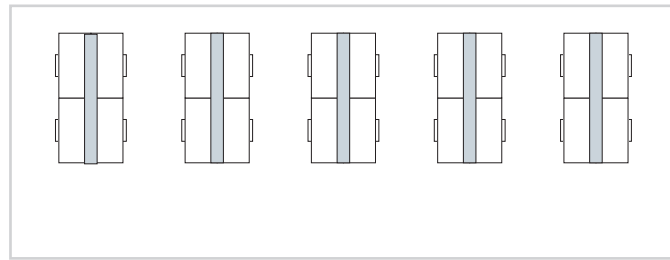
Light colour VTL 3000 K – 6500 K*

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
9200 lm	81 W	DALI	DPP 480/D	121 745 000 - 006 798 37	121 745 000 - 006 798 43

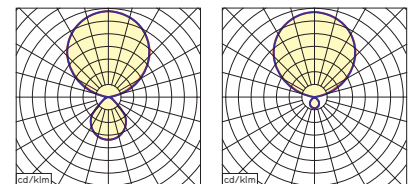
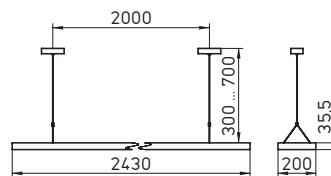
*Accessories: Controller PULSE NET required



LAVIGO



Possible positions.



LAVIGO at a glance

- Closed luminaire body with cover
- Direct light with Light Forming Technology for uniform light distribution
- Connection to DALI light management systems
- Biodynamic light PULSE VTL (Accessories: Controller PULSE NET required)
- Easy mounting, ballasts integrated into the luminaire

LAVIGO technical data

	13400 lm	21500 lm
Luminaire light efficiency	approx. 125 lm/W	approx. 126 lm/W
Light distribution (direct/indirect)	approx. 26 % / 74 %	approx. 9 % / 91 %
Luminance	< 2400 cd/m ²	< 1100 cd/m ²
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	11.8 kg	12.2 kg
Mains connection	approx. 1 m; with free strand/cable ends	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
13400 lm	107 W	DALI	DPP 576/D	121 742 000 - 006 814 38	121 742 000 - 006 814 41
21500 lm	170 W	DALI	DPP 912/D	121 743 000 - 006 803 10	121 743 000 - 006 803 13

Light colour VTL 3000 K – 6500 K*

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
13400 lm	107 W	DALI	DPP 960/D	121 746 000 - 006 825 62	121 746 000 - 006 825 65

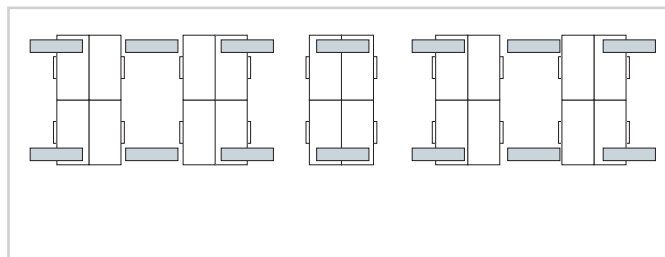
*Accessories: Controller PULSE NET required

SUSPENDED LUMINAIRES

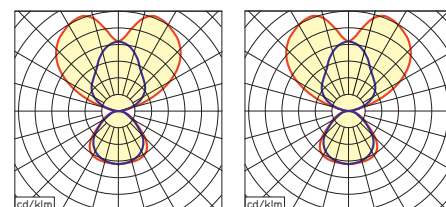
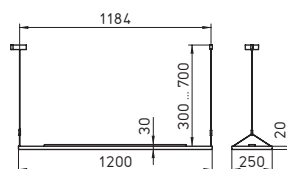
IDOO



IDOO.pendant SINGLE LUMINAIRE



Possible positions.



IDOO.pendant at a glance

- Suspended luminaire fitting in particularly flat design
- Direct light component with edge light and light-guide technology for homogenous light exit
- Indirect light component with Batwing diffuser for a wide-beam light exit
- Also available as version for daisy-chaining
- Biodynamic light PULSE VTL (Accessories: Controller PULSE NET required)
- Easy mounting, ballasts integrated into the luminaire

IDOO.pendant technical data

7000 lm

Luminaire light efficiency	approx. 123 lm/W
Light distribution (direct/indirect)	approx. 34 %/66 %
Luminance	< 2500 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	7.5 kg
Mains connection	approx. 1 m; with free strand/cable ends

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
7000 lm	57 W	DALI	IPP 7000/840/D	113 263 000 - 006 887 60	113 265 000 - 006 887 66

Light colour VTL 3000 K – 6500 K*

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Silver
7000 lm	57 W	DALI	IPP 7000/VTL/D	113 264 000 - 006 887 63	113 266 000 - 006 887 71

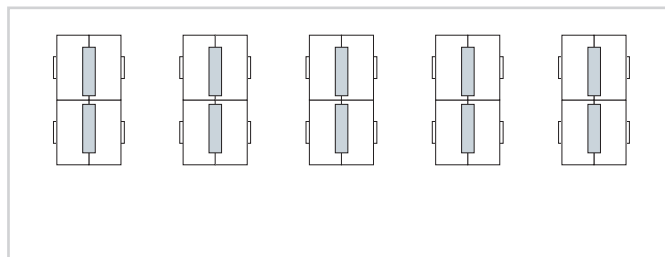
*Accessories: Controller PULSE NET required



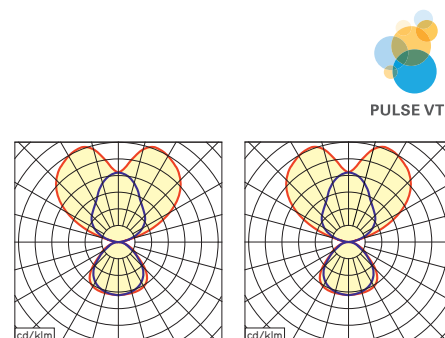
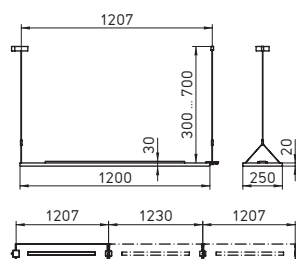




IDOO.pendant LUMINAIRE FOR DAISY-CHAINING



Possible positions.



IDOO.pendant at a glance

- Suspended luminaire fitting in particularly flat design
- Direct light component with edge light and light-guide technology for homogenous light exit
- Indirect light component with Batwing diffuser for a wide-beam light exit
- Easy-to-install mechanical and electrical connections between the luminaires
- Start luminaire with mains connection
- Up to 6 luminaires at one mains connection
- Connecting elements included in the scope of delivery of the corresponding luminaire type
- Biodynamic light PULSE VTL
(Accessories: Controller PULSE NET required)

IDOO.pendant technical data

7000 lm

Luminaire light efficiency	approx. 123 lm/W
Light distribution (direct/indirect)	approx. 34 %/66 %
Luminance	< 2500 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	7.5 kg
Mains connection*	approx. 1 m; with free strand/cable ends

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
7000 lm	57 W	DALI	IPP 7000/840/D	Start luminaire*	113 267 000 - 006 887 74	113 269 000 - 006 888 20
7000 lm	57 W	DALI	IPP 7000/840/D	Middle luminaire	113 271 000 - 006 888 31	113 273 000 - 006 888 37
7000 lm	57 W	DALI	IPP 7000/840/D	End luminaire	113 275 000 - 006 888 44	113 277 000 - 006 888 51

Light colour VTL 3000 K – 6500 K*

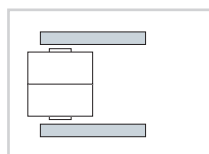
Fitted with	Consumption	Technology	Model	Special Feature	Order No. White	Order No. Silver
7000 lm	57 W	DALI	IPP 7000/VTL/D	Start luminaire*	113 268 000 - 006 887 93	113 270 000 - 006 888 28
7000 lm	57 W	DALI	IPP 7000/VTL/D	Middle luminaire	113 272 000 - 006 888 34	113 274 000 - 006 888 41
7000 lm	57 W	DALI	IPP 7000/VTL/D	End luminaire	113 276 000 - 006 888 48	113 278 000 - 006 888 54

*Accessories: Controller PULSE NET required

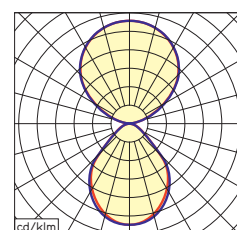
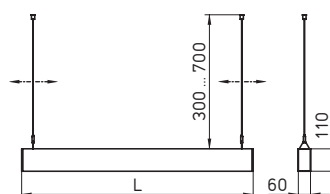


IDOO.line

SINGLE LUMINAIRE



Possible positions.



IDOO.line at a glance

- Light line with direct and indirect light exit
- Efficiency-boosting reflection technology and conical prismatic screen with direct light component ensure standard-compliant uniform illumination
- Maintenance-friendly due to easy access to ballasts

IDOO.line technical data

	2200 lm	2950 lm	3700 lm	5900 lm
Luminaire light efficiency	approx. 105 lm/W			
Light distribution (direct/indirect)	approx. 40 %/60 %			
Luminance	< 2600 cd/m ²			
UGR	< 16			
Colour reproduction	Ra > 80			
Glare-free technology	Conical prismatic screen			
Connected load	220 – 240 V; 50/60 Hz			
Energy efficiency class	A+			
Degree of protection	IP 20			
Weight (net)	3.5 kg/m			
Mains connection	approx. 1 m; with free strand/cable ends			

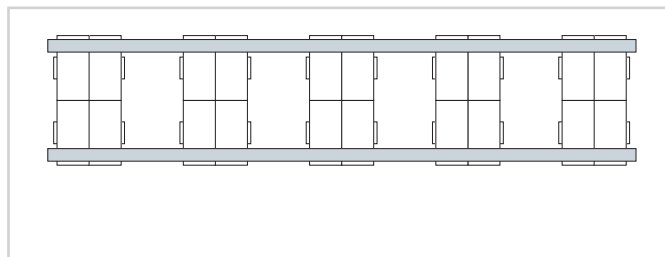
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Length	Order No. White	Order No. Silver
2200 lm	approx. 21 W	DALI	ILP 2000/840/D	854 mm	113 287 000 - 006 925 09	113 288 000 - 006 925 12
2950 lm	approx. 28 W	DALI	ILP 3000/840/D	1 134 mm	113 289 000 - 006 925 16	113 290 000 - 006 925 19
3700 lm	approx. 35 W	DALI	ILP 4000/840/D	1 402 mm	113 291 000 - 006 925 22	113 292 000 - 006 925 25
5900 lm	approx. 55 W	DALI	ILP 6000/840/D	2 256 mm	113 293 000 - 006 925 30	113 294 000 - 006 925 33

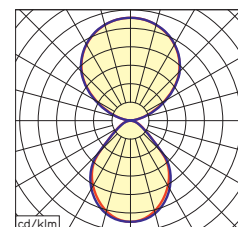
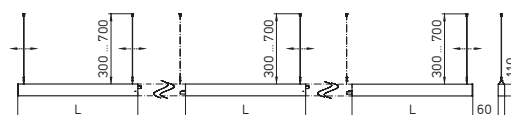


IDOO.line

MODULAR SYSTEM



Possible positions.



IDOO.line at a glance

- Free and individual interlinking options, using different start, middle and end luminaires, allow individual design of continuous light lines
- Mechanical and electrical connection of the individual modules without tools
- Start luminaire with mains connection
- Up to 18 m on one mains connection

IDOO.line technical data

	2200 lm	2950 lm	3700 lm	5900 lm
Luminaire light efficiency	approx. 105 lm/W			
Light distribution (direct/indirect)	approx. 40 %/60 %			
Luminance	< 2600 cd/m ²			
UGR	< 16			
Colour reproduction	Ra > 80			
Glare-free technology	Structured cover			
Connected load	220 – 240 V; 50/60 Hz			
Energy efficiency class	A+			
Degree of protection	IP 20			
Weight (net)	3.5 kg/m			
Mains connection*	approx. 1 m; with free strand/cable ends			

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Length	Special Feature	Order No. White	Order No. Silver
2200 lm	approx. 21 W	DALI	ILP 2000/840/D	848 mm	Start luminaire*	113 295 000 - 006 925 43	113 298 000 - 006 925 58
2200 lm	approx. 21 W	DALI	ILP 2000/840/D	842 mm	Middle luminaire	113 296 000 - 006 925 46	113 299 000 - 006 925 61
2200 lm	approx. 21 W	DALI	ILP 2000/840/D	848 mm	End luminaire	113 297 000 - 006 925 55	113 300 000 - 006 925 64
2950 lm	approx. 28 W	DALI	ILP 3000/840/D	1128 mm	Start luminaire*	113 301 000 - 006 925 67	113 304 000 - 006 925 76
2950 lm	approx. 28 W	DALI	ILP 3000/840/D	1122 mm	Middle luminaire	113 302 000 - 006 925 70	113 305 000 - 006 925 79
2950 lm	approx. 28 W	DALI	ILP 3000/840/D	1128 mm	End luminaire	113 303 000 - 006 925 73	113 306 000 - 006 925 82
3700 lm	approx. 35 W	DALI	ILP 4000/840/D	1408 mm	Start luminaire*	113 307 000 - 006 925 85	113 310 000 - 006 925 94
3700 lm	approx. 35 W	DALI	ILP 4000/840/D	1402 mm	Middle luminaire	113 308 000 - 006 925 88	113 311 000 - 006 925 97
3700 lm	approx. 35 W	DALI	ILP 4000/840/D	1408 mm	End luminaire	113 309 000 - 006 925 91	113 312 000 - 006 926 00
5900 lm	approx. 55 W	DALI	ILP 6000/840/D	2250 mm	Start luminaire*	113 313 000 - 006 926 03	113 316 000 - 006 926 12
5900 lm	approx. 55 W	DALI	ILP 6000/840/D	2244 mm	Middle luminaire	113 314 000 - 006 926 06	113 317 000 - 006 926 18
5900 lm	approx. 55 W	DALI	ILP 6000/840/D	2250 mm	End luminaire	113 315 000 - 006 926 09	113 318 000 - 006 926 21

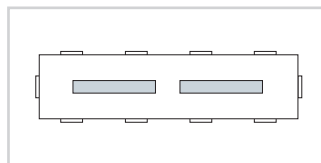




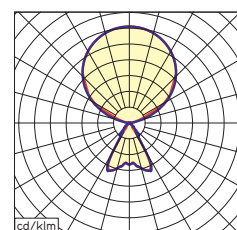
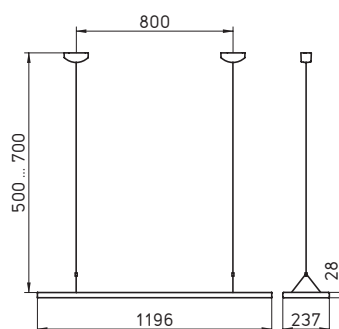
SUSPENDED LUMINAIRES **HYBRID**



HYBRID LED



Possible positions.



HYBRID LED at a glance

- LED indirect light for extensive room lighting
- LED direct light
- Separate switching or dimming of direct and indirect light
- Connection to DALI light management systems

HYBRID LED technical data

9000 lm

Luminaire light efficiency	approx. 115 lm/W
Light distribution (direct/indirect)	approx. 17 % / 83 %
Luminance	< 3200 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	lens
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 5.9 kg
Mains connection	approx. 1 m; with free strand/cable ends

Light colour neutral white 4000 K

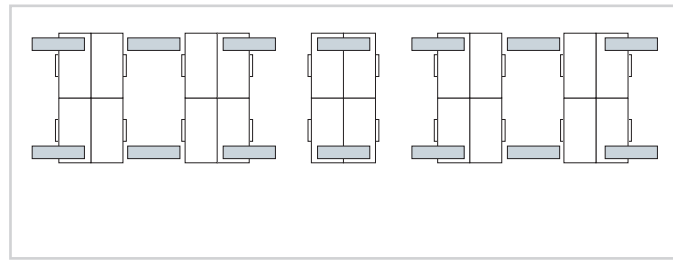
Fitted with	Consumption	Technology	Model	Order No. White	Order No. Anodised Aluminium
9000 lm	approx. 78 W	DALI	DHPL 192-12/D	121 727 000 - 006 589 66	121 727 000 - 006 568 02

SUSPENDED LUMINAIRES

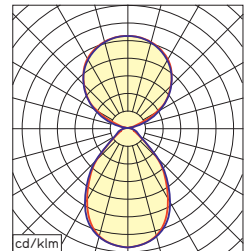
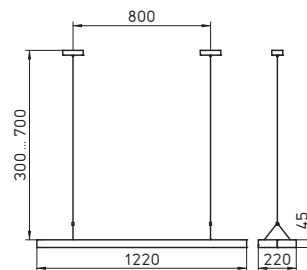
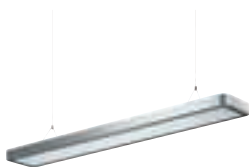
ATARO



ATARO LED



Possible positions.



ATARO LED at a glance

- Closed luminaire body with cover
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology
- Connection to DALI light management systems

ATARO LED technical data

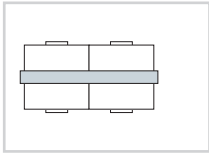
7100 lm

Luminaire light efficiency	approx. 118 lm/W
Light distribution (direct/indirect)	approx. 44 %/56 %
Luminance	< 2300 cd/m ²
UGR	< 16
Colour reproduction	Ra > 85
Glare-free technology	Structured cover
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 6.6 kg
Mains connection	approx. 1 m; with free strand/cable ends

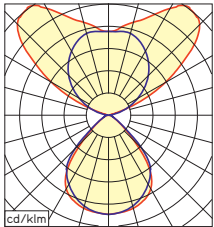
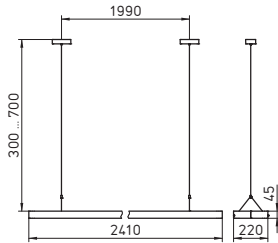
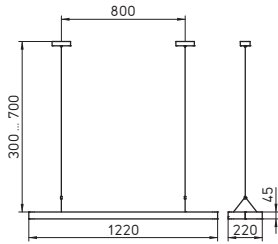
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Anodised Aluminium
7100 lm	approx. 60 W	DALI	DUP 160/D	121 670 000 - 005 645 29

ATARO



Possible positions.



ATARO at a glance

- Very high luminaire efficiency > 90 %
- Lamp cover
- Glare-free technology with light-amplifying AMBIO microprisms
- Connection to DALI light management systems*
- Autonomous luminaires with PULSE PIR especially suitable for renovation, compatible with PULSE TALK (retrofitable)

ATARO technical data

2 x 54 W

4 x 54 W

Luminaire light efficiency	approx. 70 lm/W	
Light distribution (direct/indirect)	approx. 32 %/68 %	
Luminance	< 1 600 cd/m²	
UGR	< 16	
Colour reproduction	Ra > 80	
Glare-free technology	Structured cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A	
Degree of protection	IP 20	
Weight (net)	approx. 6.5 kg	approx. 12.1 kg
Mains connection	approx. 1 m; with free strand/cable ends	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Anodised Aluminium
2 x T-16 54 W	approx. 115 W	Switchable	DUP 254	121 236 003 - 000 874 85
2 x T-16 54 W	approx. 115 W	DALI	DUP 254/D*	121 238 003 - 000 876 21
2 x T-16 54 W	approx. 115 W	PULSE PIR	DUP 254/R	121 674 000 - 005 792 96
4 x T-16 54 W	approx. 238 W	Switchable	DUP 454/2	121 240 003 - 000 952 16
4 x T-16 54 W	approx. 238 W	DALI	DUP 454/D*	121 242 003 - 000 949 14
4 x T-16 54 W	approx. 238 W	PULSE PIR	DUP 454/R	121 691 000 - 006 016 80

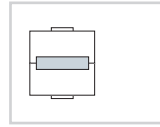


SUSPENDED LUMINAIRES

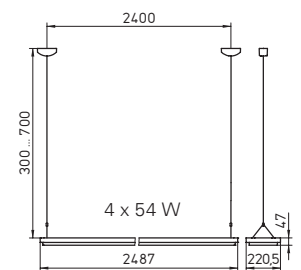
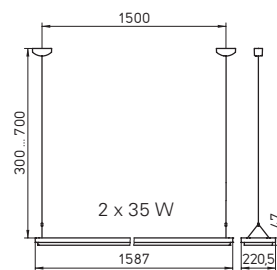
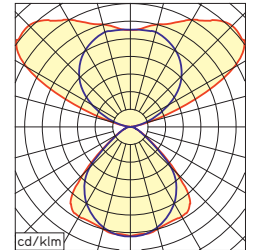
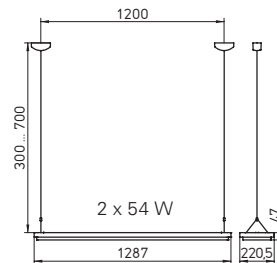
TYCOON



TYCOON



Possible positions.



TYCOON at a glance

- Very high luminaire efficiency > 90 %
- Lamp cover
- Glare-free technology with light-amplifying CDP microprisms
- Connection to DALI light management systems*
- Autonomous luminaires with PULSE PIR especially suitable for renovation, compatible with PULSE TALK (retrofitable)

TYCOON technical data

	2 x 35 W	2 x 54 W	4 x 54 W
Luminaire light efficiency	ca. 83 lm/W	ca. 70 lm/W	ca. 70 lm/W
Light distribution (direct/indirect)	approx. 35 %/65 %		
Luminance	< 1 000 cd/m ²	< 1 500 cd/m ²	< 1 500 cd/m ²
UGR	< 16		
Colour reproduction	Ra > 80		
Glare-free technology	Conical prismatic screen		
Connected load	220 – 240 V; 50/60 Hz		
Energy efficiency class	A		
Degree of protection	IP 20		
Weight (net)	approx. 6.4 kg	approx. 5.3 kg	approx. 10.3 kg
Mains connection	approx. 1 m; with free strand/cable ends		

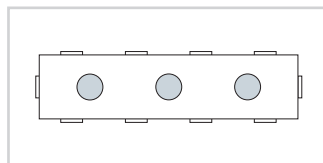
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
2 x T-16 35 W	approx. 79 W	Switchable	DYP 235	121 471 008 - 000 871 83
2 x T-16 35 W	approx. 79 W	DALI	DYP 235/D*	121 474 008 - 000 885 20
2 x T-16 35 W	approx. 79 W	PULSE PIR	DYP 235/R	121 687 000 - 005 981 95
2 x T-16 54 W	approx. 115 W	Switchable	DYP 254	121 455 008 - 000 862 48
2 x T-16 54 W	approx. 115 W	DALI	DYP 254/D*	121 457 008 - 000 870 72
2 x T-16 54 W	approx. 115 W	PULSE PIR	DYP 254/R	121 686 000 - 005 981 85
4 x T-16 54 W	approx. 238 W	Switchable	DYP 454/2	121 459 008 - 000 855 20
4 x T-16 54 W	approx. 238 W	DALI	DYP 454/D*	121 461 008 - 000 871 54
4 x T-16 54 W	approx. 238 W	PULSE PIR	DYP 454/R	121 704 000 - 006 156 23

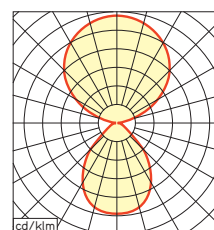
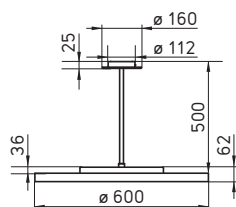
SUSPENDED LUMINAIRES **VIVAA**



VIVAA



Possible positions.



VIVAA at a glance

- Extremely low decorative ring, only 36 mm in height
- Cost efficiency thanks to maximum luminaire luminous flux
- Easy cleaning due to closed design
- Quick mounting, maintenance-free
- Optimum light conditions
- Suitable as emergency lighting
- Biodynamic light PULSE VTL
(Accessories: Controller PULSE NET required)

VIVAA technical data

	8600 lm	10700 lm
Luminaire light efficiency	approx. 105 lm/W	approx. 108 lm/W
Light distribution (direct/indirect)	approx. 40 %/60 %	
Luminance	< 3000 cd/m ²	
UGR	< 19	
Colour reproduction	Ra > 80	
Glare-free technology	CDP microprism cover	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 8.1 kg	
Mains connection	Permanent connection	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No.
8600 lm	approx. 82 W	DALI	C 600 (DALI)	D15646.000

Light colour VTL 3000 K – 6500 K*

Fitted with	Consumption	Technology	Model	Special Feature	Order No.
10700 lm	approx. 99 W	DALI	VTL C 600	PULSE VTL	D15515.000

*Accessories: Controller PULSE NET required

A photograph of a modern office interior. The ceiling is a white grid with several recessed rectangular light fixtures. A diagonal metal beam crosses the ceiling. In the background, there are glass partitions and more recessed lighting. The overall tone is cool and professional.

RECESSED AND SURFACE-MOUNTED LUMINAIRES

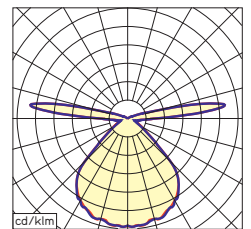


RECESSED AND SURFACE- MOUNTED LUMINAIRES

IDOO



IDOO.fit



Highest visual comfort due to dual distribution of light intensity.

The recessed and surface-mounted luminaire IDOO.fit, which belongs to the IDOO luminaire family developed by the designer Burkhard Schlee, fascinates by its dual distribution of light intensity, i.e. its division into a direct and indirect light component. Although it is recessed or surface-mounted, the luminaire frame seems to be floating below the ceiling. This impression is created because the ceiling and the walls are brightened horizontally with soft indirect light by means of specially designed optics. The offset installation of the optical system ensures a pleasant backlit ceiling element. This gives a harmonious corona effect, connecting luminaire and light with the surrounding architecture.

The homogenous light impression on the ceiling is also used for the PULSE VTL variant. Since for human centric lighting the lighting surface is crucial along with the illuminance and light colour, the biodynamic mode of action is supported even more by allowing the high indirect light component to illuminate the room over a large area from above. Thus, the dual illuminance distribution of IDOO.fit in its PULSE VTL version creates a multifaceted lighting level with maximum visual and space comfort. IDOO.fit is suitable for computer workplaces and classic raster ceilings.



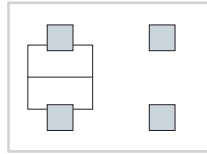




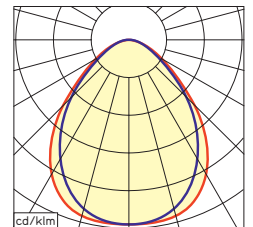
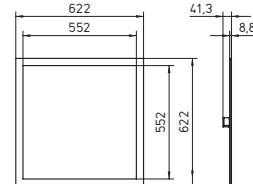
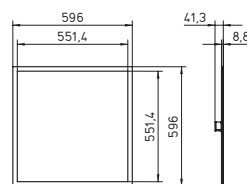
RECESSED AND SURFACE- MOUNTED LUMINAIRES **DOTOO**



DOTOO.fit



Possible positions.



DOTOO.fit at a glance

- LED recessed luminaires for illumination of workplaces and rooms in particularly flat design for efficient lighting
- Uniform and homogenous direct light using edge-light and light-guide technology
- National and international default dimensions for easy ceiling integration

DOTOO.fit technical data

4 100 lm

Luminaire light efficiency	120 lm/W
Light distribution (direct/indirect)	100 %
Luminance	< 3000
UGR	< 19
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	100 – 240 V; 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	4.5 kg
Mains connection	Connection terminal

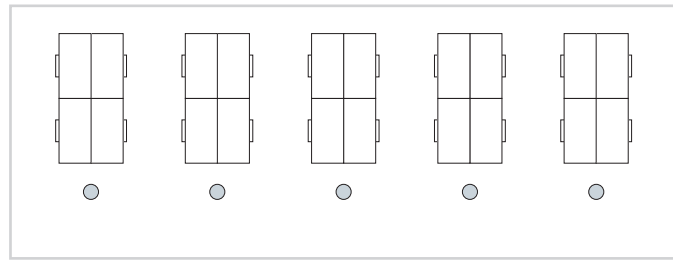
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	System dimension	Order No.
4 100 lm	34 W	Switchable	DFE 4000/840	600 x 600 mm	113 455 000 - 006 924 98
4 100 lm	34 W	Switchable	DFE 4000/840	625 x 625 mm	113 451 000 - 006 924 86
4 100 lm	34 W	DALI	DFE 4000/840/D	600 x 600 mm	113 454 000 - 006 924 95
4 100 lm	34 W	DALI	DFE 4000/840/D	625 x 625 mm	113 450 000 - 006 950 63

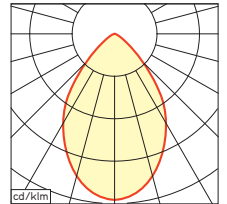
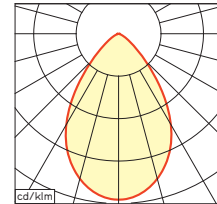
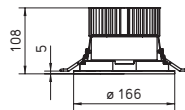
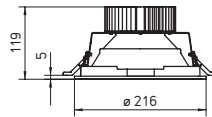
RECESSED AND SURFACE- MOUNTED LUMINAIRES **DOTOO**



DOTOO.spot



Possible positions.



DOTOO.spot at a glance

- LED downlight for illumination of workplaces and rooms, hallways and corridors
- As a supplement for the room depths in combination with other luminaires such as free-standing luminaires
- Tool-free ceiling installation for ceiling thicknesses 0.8 – 42 mm
- Suitable as emergency lighting

DOTOO.spot technical data

	1400 lm	2050 lm
Luminaire light efficiency	93 lm/W	103 lm/W
Light distribution (direct/indirect)	100 %	
Luminance	< 3500 cd/m ²	< 3000 cd/m ²
UGR	< 19	
Colour reproduction	Ra > 80	
Glare-free technology	matt reflector/conical prismatic screen	
Connected load	220 – 240 V; 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	0.7 kg	0.9 kg
Mains connection	approx. 0.35 m; with connection terminal	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Ceiling cutout	Order No.
1400 lm	15 W	Switchable	DSE 1000/840	ø 154 mm	113 244 000 - 006 833 80
1400 lm	15 W	DALI	DSE 1000/840/D	ø 154 mm	113 242 000 - 006 833 68
2050 lm	20 W	Switchable	DSE 2000/840	ø 204 mm	113 252 000 - 006 834 08
2050 lm	20 W	DALI	DSE 2000/840/D	ø 204 mm	113 250 000 - 006 834 02







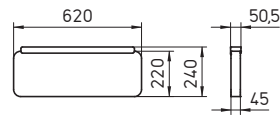
WALL-MOUNTED LUMINAIRES

WALL-MOUNTED LUMINAIRES

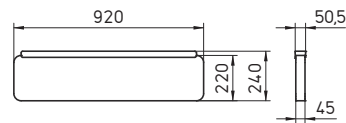
ATARO



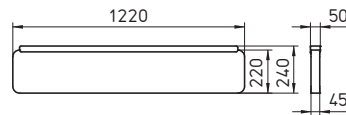
ATARO



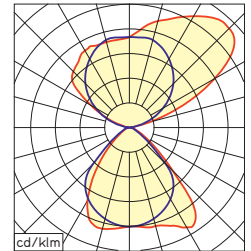
2 x 24 W



2 x 39 W



2 x 54 W



ATARO at a glance

- Very high luminaire efficiency > 90 %
- Lamp cover
- Glare-free technology with light-amplifying AMBIO microprisms
- Asymmetrical beam
- Connection to DALI light management systems*

ATARO technical data

	2 x 24 W	2 x 39 W	2 x 54 W
Luminaire light efficiency	ca. 64 lm/W	ca. 69 lm/W	ca. 70 lm/W
Light distribution (direct/indirect)	approx. 38 % / 62 %		
Luminance	< 1200 cd/m ²	< 2000 cd/m ²	< 2000 cd/m ²
UGR	< 16		
Colour reproduction	Ra > 80		
Glare-free technology	Structured cover		
Connected load	220 – 240 V; 50/60 Hz		
Energy efficiency class	A		
Degree of protection	IP 20		
Weight (net)	approx. 3.9 kg	approx. 5.4 kg	approx. 7.0 kg
Fastening	Wall holder		
Mains connection	Connecting plug WINSTA® MINI 3-pole		

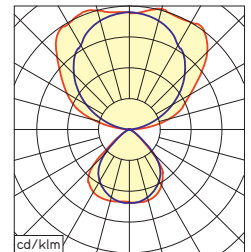
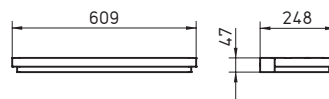
Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Anodised Aluminium
2 x T-16 24 W	approx. 50 W	Switchable	DUW 224	121 586 003 - 004 730 78
2 x T-16 24 W	approx. 50 W	DALI	DUW 224/D*	121 587 003 - 004 730 84
2 x T-16 39 W	approx. 82 W	Switchable	DUW 239	121 580 003 - 004 730 69
2 x T-16 39 W	approx. 82 W	DALI	DUW 239/D*	121 581 003 - 004 730 63
2 x T-16 54 W	approx. 115 W	Switchable	DUW 254	121 582 003 - 004 730 72
2 x T-16 54 W	approx. 115 W	DALI	DUW 254/D*	121 583 003 - 004 730 66

WALL-MOUNTED LUMINAIRES **TYCOON**



TYCOON COMFORT



TYCOON COMFORT at a glance

- Glare-free technology with light-amplifying CDP microprisms
- Connection to DALI light management systems*

TYCOON COMFORT technical data

2 x 55 W

Luminaire light efficiency	approx. 58 lm/W
Light distribution (direct/indirect)	approx. 26 % / 74 %
Luminance	< 1300 cd/m ²
UGR	< 16
Colour reproduction	Ra > 80
Glare-free technology	Conical prismatic screen
Connected load	220 – 240 V; 50/60 Hz
Energy efficiency class	A
Degree of protection	IP 20
Weight (net)	approx. 4 kg
Fastening	Fastening rail
Mains connection	Connection terminal

Light colour neutral white 4000 K

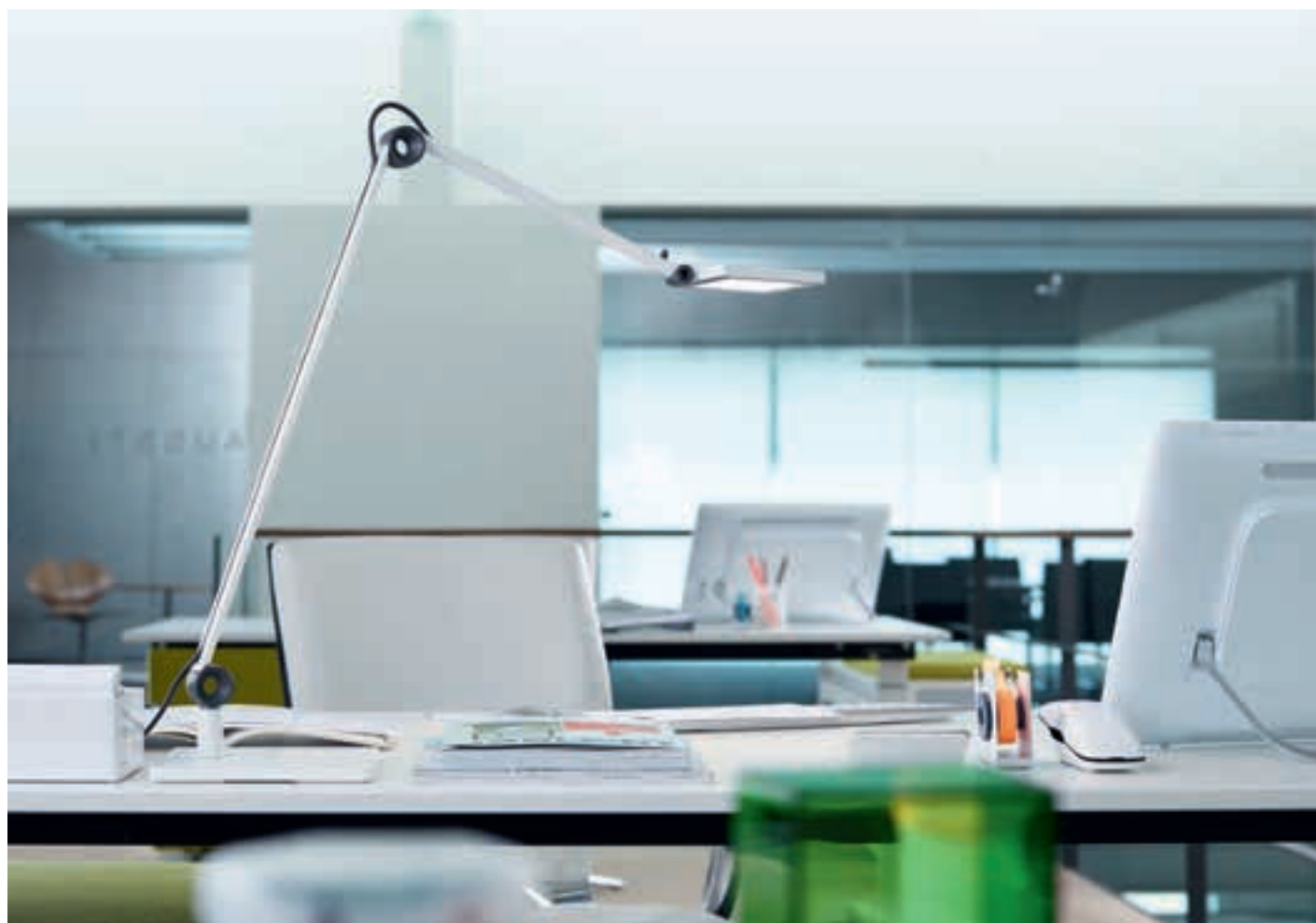
Fitted with	Consumption	Technology	Model	Order No. Silver
2 x TC-LEL 55 W	approx. 117 W	Switchable	DYW 255	121 395 008 - 000 680 38
2 x TC-LEL 55 W	approx. 117 W	DALI	DYW 255/D*	121 396 008 - 000 680 52

TASK LUMINAIRES



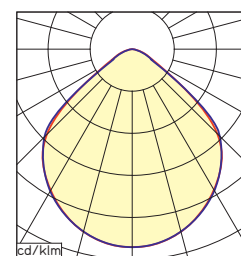
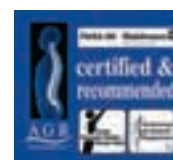
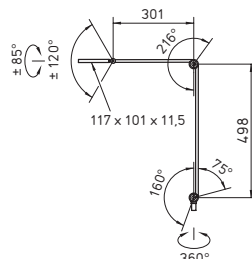
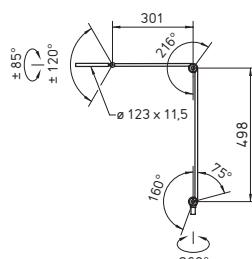


TASK LUMINAIRES **PARA.MI**



PARA.MI

2-PIECE ARM



PARA.MI at a glance

- Flexible connection options to furniture systems
- Specially developed reflector for glare-free work
- Switching and dimming with memory function using easily reachable operating key in the luminaire head
- Adjustable automatic switch-off and switch-on characteristics

PARA.MI technical data

600 lm

Consumption	8 W
Luminaire light efficiency	approx. 75 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	733 lx with a measuring distance of 50 cm
BEF	90 lx/W for measuring field 60 x 60 cm
Glare-free technology	Plastic reflector
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 0.5 kg
Fastening (accessories)	Adaptor, table base, table clamp
Mains connection	approx. 3 m; with mains plug

Light colour neutral white 4000 K

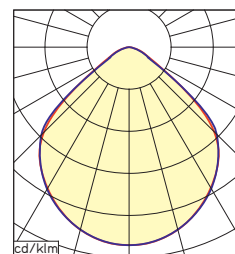
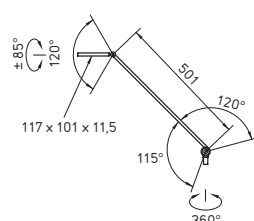
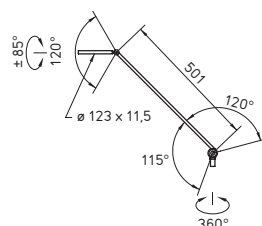
Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	FTL 102 R	113 147 000 - 006 385 07	113 147 000 - 006 440 70	113 147 000 - 006 440 66	113 147 000 - 006 440 73
Square	FTL 108 R	113 148 000 - 006 385 10	113 148 000 - 006 440 97	113 148 000 - 006 440 91	113 148 000 - 006 441 00

Light colour warm white 3000 K

Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	FTL 102 R	113 147 000 - 006 285 72	113 147 000 - 006 440 60	113 147 000 - 006 440 56	113 147 000 - 006 440 63
Square	FTL 108 R	113 148 000 - 006 326 62	113 148 000 - 006 440 82	113 148 000 - 006 440 79	113 148 000 - 006 440 88

PARA.MI

1-PIECE ARM



PARA.MI at a glance

- Flexible connection options to furniture systems
- Specially developed reflector for glare-free work
- Switching and dimming with memory function using an easily reachable operating key in the luminaire head
- Adjustable automatic switch-off and switch-on characteristics

PARA.MI technical data

600 lm

Consumption	8 W
Luminaire light efficiency	approx. 75 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	733 lx with a measuring distance of 50 cm
BEF	90 lx/W for measuring field 60 x 60 cm
Glare-free technology	Plastic reflector
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 0.5 kg
Fastening (accessories)	Adaptor, table base, table clamp
Mains connection	approx. 3 m; with mains plug

Light colour neutral white 4000 K

Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	MFTL 102 R	113 150 000 - 006 385 20	113 150 000 - 006 439 82	113 150 000 - 006 439 78	113 150 000 - 006 439 85
Square	MFTL 108 R	113 149 000 - 006 385 17	113 149 000 - 006 440 14	113 149 000 - 006 440 09	113 149 000 - 006 440 17

Light colour warm white 3000 K

Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	MFTL 102 R	113 150 000 - 006 326 65	113 150 000 - 006 437 80	113 150 000 - 006 437 76	113 150 000 - 006 437 84
Square	MFTL 108 R	113 149 000 - 006 326 68	113 149 000 - 006 440 03	113 149 000 - 006 440 00	113 149 000 - 006 440 06



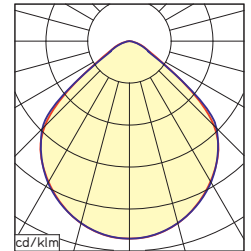
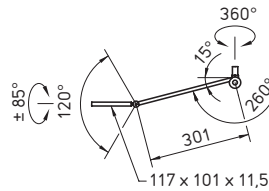
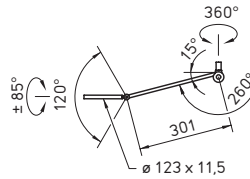






PARA.MI

UNDERCABINET



PARA.MI at a glance

- Flexible connection options to furniture systems
- Specially developed reflector for glare-free work
- Switching and dimming with memory function using easily reachable operating key in the luminaire head
- Adjustable automatic cut-out and switch-on characteristics

PARA.MI technical data

600 lm

Consumption	8 W
Luminaire light efficiency	approx. 75 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	733 lx at a measuring distance of 50 cm
BEF	90 lx/W for measuring field 60 x 60 cm
Glare-free technology	Plastic reflector
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 0.5 kg
Fastening (accessories)	Adaptor, table base, table clamp
Mains connection	approx. 3 m; with mains plug

Light colour neutral white 4000 K

Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	CMFTL 102 R	113 152 000 - 006 391 63	113 152 000 - 006 441 36	113 152 000 - 006 441 24	113 152 000 - 006 441 40
Square	CMFTL 108 R	113 153 000 - 006 391 66	113 153 000 - 006 441 55	113 153 000 - 006 441 52	113 153 000 - 006 441 58

Light colour warm white 3000 K

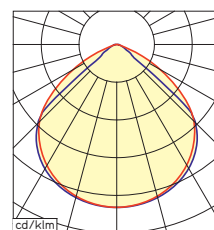
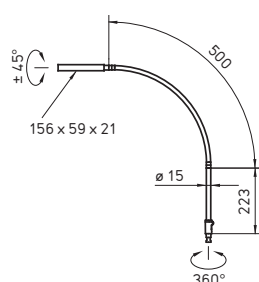
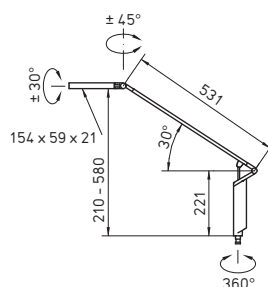
Luminaire head	Model	Order No. White	Order No. Silver	Order No. Black	Order No. Red
Round	CMFTL 102 R	113 152 000 - 006 391 24	113 152 000 - 006 441 15	113 152 000 - 006 441 12	113 152 000 - 006 441 18
Square	CMFTL 108 R	113 153 000 - 006 391 21	113 153 000 - 006 441 46	113 153 000 - 006 441 43	113 153 000 - 006 441 49

TASK LUMINAIRES

MINELA



MINELA



MINELA at a glance

- Illuminated switch for switching on, off and dimming by slight touch
- Automatic switching off after approx. 14 h

MINELA technical data

	400 lm	330 lm
Luminaire light efficiency	approx. 57 lm/W	approx. 47 lm/W
Light distribution (direct/indirect)	100 % direct	
Colour reproduction	Ra > 85	
Illuminance Em	451 lx at a measuring distance of 50 cm	
BEF	64 lx/W for measuring field 60 x 60 cm	
Glare-free technology	Plastic reflector	
Connected load	100 – 240 V, 50/60 Hz	
Energy efficiency class	A+	
Degree of protection	IP 20	
Weight (net)	approx. 1.1 kg	
Fastening (accessories)	Table base, table clamp	
Mains connection	approx. 2.3 m; with mains plug	

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. Silver	Order No. Anodised Aluminium
400 lm	7 W	continuously dimmable	ETL 1 FR	Gas spring	112 883 000 - 000 134 85	112 883 002 - 000 738 01
400 lm	7 W	continuously dimmable	SOL 1	Flexible tube	112 929 000 - 005 769 49	112 929 000 - 005 769 55

Light colour warm white 3000 K

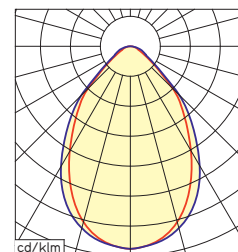
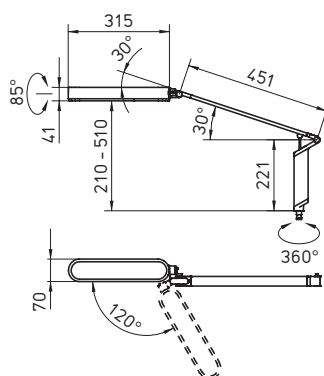
Fitted with	Consumption	Technology	Model	Special Feature	Order No. Silver	Order No. Anodised Aluminium
330 lm	7 W	continuously dimmable	ETL 1 FR	Gas spring	112 883 009 - 000 977 75	112 883 010 - 004 875 96
330 lm	7 W	continuously dimmable	SOL 1	Flexible tube	112 929 000 - 005 769 46	112 929 000 - 005 769 52

TASK LUMINAIRES

MAIA



MAIA



MAIA at a glance

- Rocker switch in luminaire head
- Glare-free technology with light-amplifying AMBIO microprisms, incl. Light Forming Technology

MAIA technical data

450 lm

Luminaire light efficiency	approx. 56 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	661 lx with a measuring distance of 50 cm
BEF	83 lx/W for measuring field 60 x 60 cm
Glare-free technology	Structured cover
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 1.0 kg
Fastening (accessories)	Table base, table clamp
Mains connection	approx. 3.5 m; with mains plug

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Anodised Aluminium
400 lm	8 W	Switchable	DTLE 18	113 107 000 - 006 015 85

Light colour warm white 3000 K

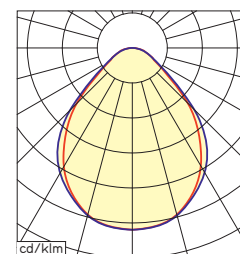
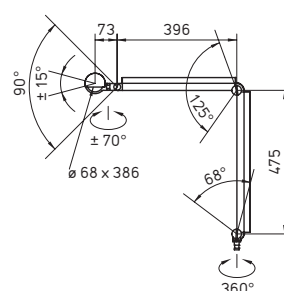
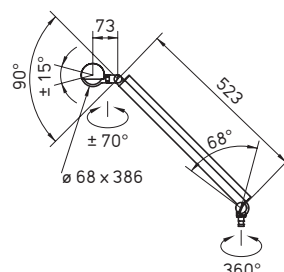
Fitted with	Consumption	Technology	Model	Order No. Anodised Aluminium
450 lm	8 W	Switchable	DTLE 18	113 107 000 - 006 026 66

TASK LUMINAIRES

DIVA



DIVA



DIVA at a glance

- Rocker switch in luminaire head
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology

DIVA technical data

570 lm

Luminaire light efficiency	approx. 71 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	451 lx with a measuring distance of 50 cm
BEF	64 lx/W for measuring field 60 x 60 cm
Glare-free technology	Conical prismatic screen
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 1.3 kg (1-part) approx. 1.5 kg (2-part)
Fastening (accessories)	Table base, table clamp, wall bracket
Mains connection	approx. 3.4 m; with mains plug

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. Anodised Aluminium
570 lm	8 W	Switchable	MPTLE 18	1-piece arm	113 104 000 - 006 026 75
570 lm	8 W	Switchable	PTLE 18	2-piece arm	113 103 000 - 006 026 78

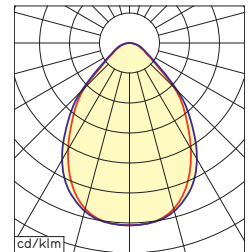
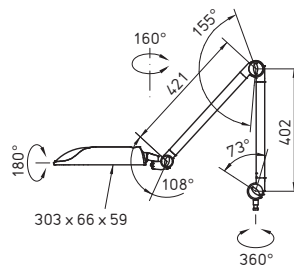
Light colour warm white 3000 K

Fitted with	Consumption	Technology	Model	Special Feature	Order No. Anodised Aluminium
570 lm	8 W	Switchable	MPTLE 18	1-piece arm	113 104 000 - 006 005 23
570 lm	8 W	Switchable	PTLE 18	2-piece arm	113 103 000 - 006 008 86

TASK LUMINAIRES **AVENUE**



AVENUE



AVENUE at a glance

- Switch in luminaire head
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology

AVENUE technical data

450 lm

Luminaire light efficiency	approx. 71 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 85
Illuminance Em	814 lx at a measuring distance of 50 cm
BEF	102 lx/W for measuring field 60 x 60 cm
Glare-free technology	Conical prismatic screen
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 1.6 kg
Fastening (accessories)	Table base, table clamp, wall bracket
Mains connection	approx. 3.3 m; with mains plug

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. Silver
570 lm	8 W	Switchable	AVE 18	113 105 000 - 005 989 79

Light colour warm white 3000 K

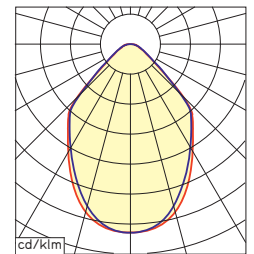
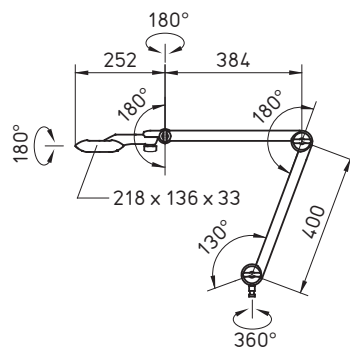
Fitted with	Consumption	Technology	Model	Order No. Silver
570 lm	8 W	Switchable	AVE 18	113 105 000 - 006 026 69

TASK LUMINAIRES

TANEO



TANEО



TANEО at a glance

- Touch panel integrated in luminaire head
- Glare-free technology with light-amplifying CDP microprisms, incl. Light Forming Technology
- Uniquely flexible and balanced arm with enormous operating radius

TANEО technical data

650 lm

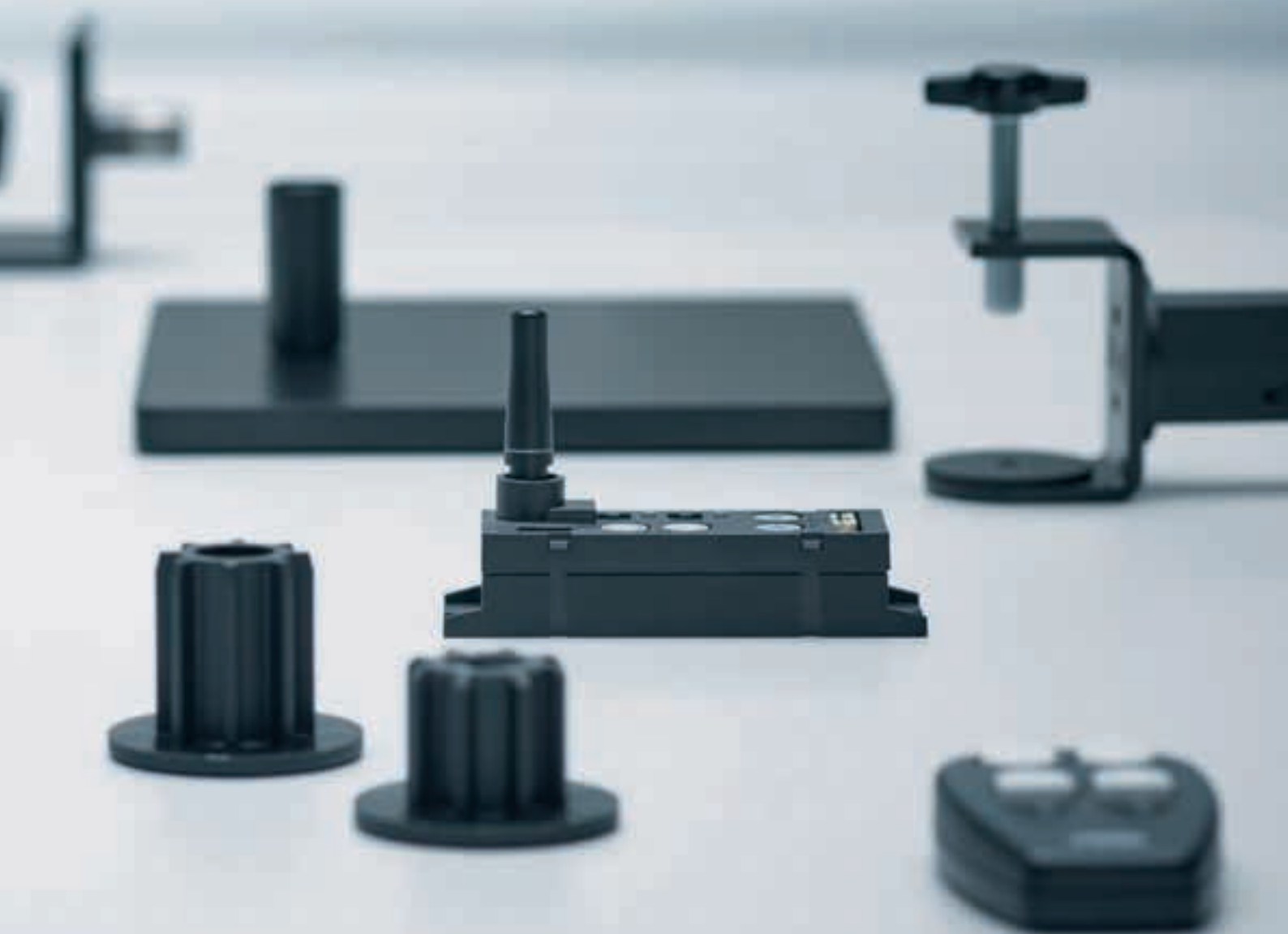
Luminaire light efficiency	approx. 43 lm/W
Light distribution (direct/indirect)	100 % direct
Colour reproduction	Ra > 80
Illuminance Em	563 lx at a measuring distance of 50 cm
BEF	38 lx/W for measuring field 1 x 1 m
Glare-free technology	Conical prismatic screen
Connected load	100 – 240 V, 50/60 Hz
Energy efficiency class	A+
Degree of protection	IP 20
Weight (net)	approx. 1.5 kg
Fastening (accessories)	Screw-down flange, base, table clamp
Mains connection	approx. 3.0 m; with mains plug

Light colour neutral white 4000 K

Fitted with	Consumption	Technology	Model	Order No. White	Order No. Anodised Aluminium
650 lm	15 W	Dimmable	STZL 12 R	112 576 000 - 005 760 91	112 576 000 - 005 441 67

ACCESSORIES








ACCESSORIES FOR FREE-STANDING LUMINAIRES




REFLECTION AND ACOUSTIC CANVAS SYSTEM


Canvas System RX1 for ATARO, TYCOON, LAVIGO

	Designation	Degree of Reflection	Area	Order No.
	RX1-Z-150-O central	65 %	2,25 m ²	225 565 059 - 000 066 21
	Steadiness exclusively guaranteed when combined with standard free-standing luminaires (luminaire height of max. 1.95 m, LAVIGO 2.0 m; defined base of the luminaire type).			


Canvas System RX2 for ATARO

	Designation	Degree of Reflection	Area	Order No.
	RX2-Z-150-O central	65 %	2,25 m ²	225 976 019 - 005 227 78
	Steadiness exclusively guaranteed when combined with standard free-standing luminaires (luminaire height of max. 1.95 m; defined base of the luminaire type).			

Canvas System RX2 for ATARO, TYCOON, LAVIGO

	Designation	Degree of Reflection	Area	Order No.
	RX2-M-150-O modular	65 %	2,25 m ²	225 976 029 - 005 227 75
	Steadiness exclusively guaranteed when combined with standard free-standing luminaires (luminaire height of max. 1.95 m, LAVIGO 2.0 m; defined base of the luminaire type).			

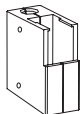
Canvas System RX2 for TYCOON

	Designation	Degree of Reflection	Area	Order No.
	RX2-M-150-O modular	65 %	2,25 m ²	225 976 039 - 005 479 44
	Steadiness exclusively guaranteed when combined with standard free-standing luminaires (luminaire height of max. 1.95 m; defined base of the luminaire type).			

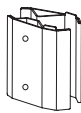
ACCESSORIES FOR FREE-STANDING LUMINAIRES

CLAMPING FOR REFLECTION AND ACOUSTIC CANVAS SYSTEMS RX1/RX2

Clamping for LAVIGO

	Designation	Colour	Order No.
	Clamping	Silver metallic	191 116 019 - 006 590 80
	Clamping	White	191 116 019 - 006 590 83

Clamping for ATARO and TYCOON


	Designation	Colour	Order No.
	Clamping	Silver metallic	191 111 019 - 005 367 11
	Clamping	White	191 111 019 - 005 370 48

ACCESSORIES FOR LIGHT MANAGEMENT




WIRELESS SYSTEM


Receiver Intermediate Plug for Wireless External Switching

	Designation	Technology	Order No.
	Wireless receiver	EnOcean, 868,3 MHz	330 681 010 - 005 406 05


Transmitter

	Designation	Technology	Order No.
	Wireless hand-held transmitter	EnOcean, 868,3 MHz, battery-free	330 209 020 - 005 405 97

Transmitter

	Designation	Technology	Order No.
	Wireless wall transmitter	EnOcean, 868,3 MHz, battery-free	330 633 010 - 000 038 31


PULSE TALK Retrofittable Wireless Module for Communication between Luminaires

	Designation	Technology	Order No.
	Wireless module (DE, CH, CN)	EnOcean, 868 MHz	209 781 019 - 005 463 19
	Wireless module (USA)	EnOcean, 902 MHz	209 781 029 - 006 156 36
	Compatibility from firmware version*:		
	PULSE dimmable	VFP 4.4D	
	PULSE PIR	VFS 4.3E/VFS 4.4F	
	PULSE HFMD	VFP 4.5H	
*See luminaire cover			


ACCESSORIES FOR LIGHT MANAGEMENT

DALI

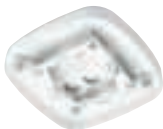
Controller

	Designation	Technology	Order No.
	DALI MCU digitaler Drehdimmer	DALI	330 686 010 - 005 541 19


Presence detector

	Designation	Technology	Order No.
	IR-Quattro-HD-DALI	DALI	337 821 020 - 006 953 58

Adaptor for Surface Mounting of Presence Detectors

	Designation	Order No.
	Adaptor	337 821 010 - 006 953 61

Remote Control for Presence Detector

	Designation	Technology	Order No.
	RC 5 DALI	Infrared	337 822 010 - 006 953 65

Controller for Biodynamic Light PULSE VTL

	Designation	Technology	Order No.
	PULSE NET	DALI Real-Time Controller	209 990 019 - 006 962 92

ACCESSORIES FOR DESK-MOUNTED LUMINAIRES



TABLE CLAMPS

Table clamp, general


	Designation	Span	Model	Colour	Order No.
	Table clamp	20 – 28 mm	TK 1/28	Black	191 014 039 - 000 151 97

Table clamp LAVIGO


	Designation	Span	Model	Colour	Order No.
	Table clamp	0 – 65 mm	TK 3/65	Black	190 064 039 - 000 886 88
	Table clamp	0 – 65 mm	TK 3/65	White	190 064 029 - 000 666 84

Table clamp ATARO




	Designation	Span	Model	Colour	Order No.
	Table clamp	20 – 28 mm	TK 1/28	Stone grey	191 102 059 - 000 284 85


Table clamp TYCOON

	Designation	Span	Model	Colour	Order No.
	Table clamp	20 – 28 mm	TK 1/28	Black	191 102 019 - 000 272 19

ACCESSORIES FOR DESK-MOUNTED LUMINAIRES

SLOT-IN PIVOT PINS

Slot-In Pivot Pins for LAVIGO					
	Designation	Insertion depth	Collar	Colour	Order No.
	Slot-In Pivot Pins	20 – 28 mm	ø 30 mm	Black	303 258 151 - 006 634 91

Slot-In Pivot Pins for ATARO, TYCOON					
	Designation	Insertion depth	Collar	Colour	Order No.
	Slot-In Pivot Pins	20 – 28 mm	ø 36 mm	Black	303 258 111 - 000 849 22

ACCESSORIES FOR TASK LUMINAIRES



TABLE BASES

Table Bases PARA.MI





	Designation	Colour	Order No.
	Table base, round	White	190 210 019 - 006 403 63
	Table base, round	Silver	190 210 019 - 006 439 64
	Table base, round	Black	190 210 019 - 006 439 61
	Table base, round	Red	190 210 019 - 006 439 68
	Table base, rectangular	White	190 209 019 - 006 403 79
	Table base, rectangular	Silver	190 209 019 - 006 438 97
	Table base, rectangular	Black	190 209 019 - 006 438 91
	Table base, rectangular	Red	190 209 019 - 006 439 02

Table Base MINELA, MAIA, AVENUE

	Designation	Colour	Order No.
	Table base	Black	ILL00500C - 000 505 03
	Table base	Silver metallic	ILL00500E - 000 941 76

Table Bases DIVA

	Designation	Colour	Order No.
	Table base, round	Black	190 186 019 - 000 096 44
	Table base, round	Silver metallic	190 186 029 - 000 090 84
	Table base	Black	225 386 019 - 000 880 54

ACCESSORIES FOR TASK LUMINAIRES

TABLE CLAMPS

Table Clamps PARA.MI



	Designation	Span	Connection	Model	Colour	Order No.
	Table clamp	10 – 35 mm	vertical	TKF 1/35 A	Black	191 112 019 - 006 396 39
	Table clamp	10 – 35 mm	horizontal	TKF 1/35 B	Black	191 113 019 - 006 349 07

Table Clamps MINELA, MAIA, AVENUE



	Designation	Span	Model	Colour	Order No.
	Table clamp	0 – 70 mm	TK 1/70	Black	ILL00100C - 000 504 72
	Table clamp	20 – 28 mm	TK 1/28	Black	191 017 209 - 000 506 48

Table Clamps DIVA






	Designation	Span	Model	Colour	Order No.
	Table clamp	0 – 139 mm	TKD	Black	190 103 019 - 000 480 79
	Table clamp	0 – 139 mm	TKD	Grey	190 103 029 - 000 487 03
	Table clamp	0 – 139 mm	TKC	Black	190 127 019 - 000 600 20
	Table clamp	0 – 139 mm	TKC	Grey	190 127 029 - 000 600 21

Table Clamp TANEO


	Designation	Span	Colour	Order No.
	Table clamp	0 – 65 mm	Black	190 007 019 - 000 149 04

ACCESSORIES FOR TASK LUMINAIRES

ADAPTOR

Adaptor PARA.MI					
	Designation	Special Feature	Connection	Colour	Order No.
	Adaptor	With sliding block M4, Allen screw	vertical	Black	191 115 029 - 006 477 82
	Adaptor	With sliding block M4, Allen screw	horizontal	Black	191 114 029 - 006 477 72

BUSHES

Bush for task luminaires				
	Designation	Plug-Depth	Colour	Order No.
	Adaptor	27 mm	Black	303 711 020 - 000 956 52
	Adaptor	36 mm	Black	303 711 010 - 000 591 98

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