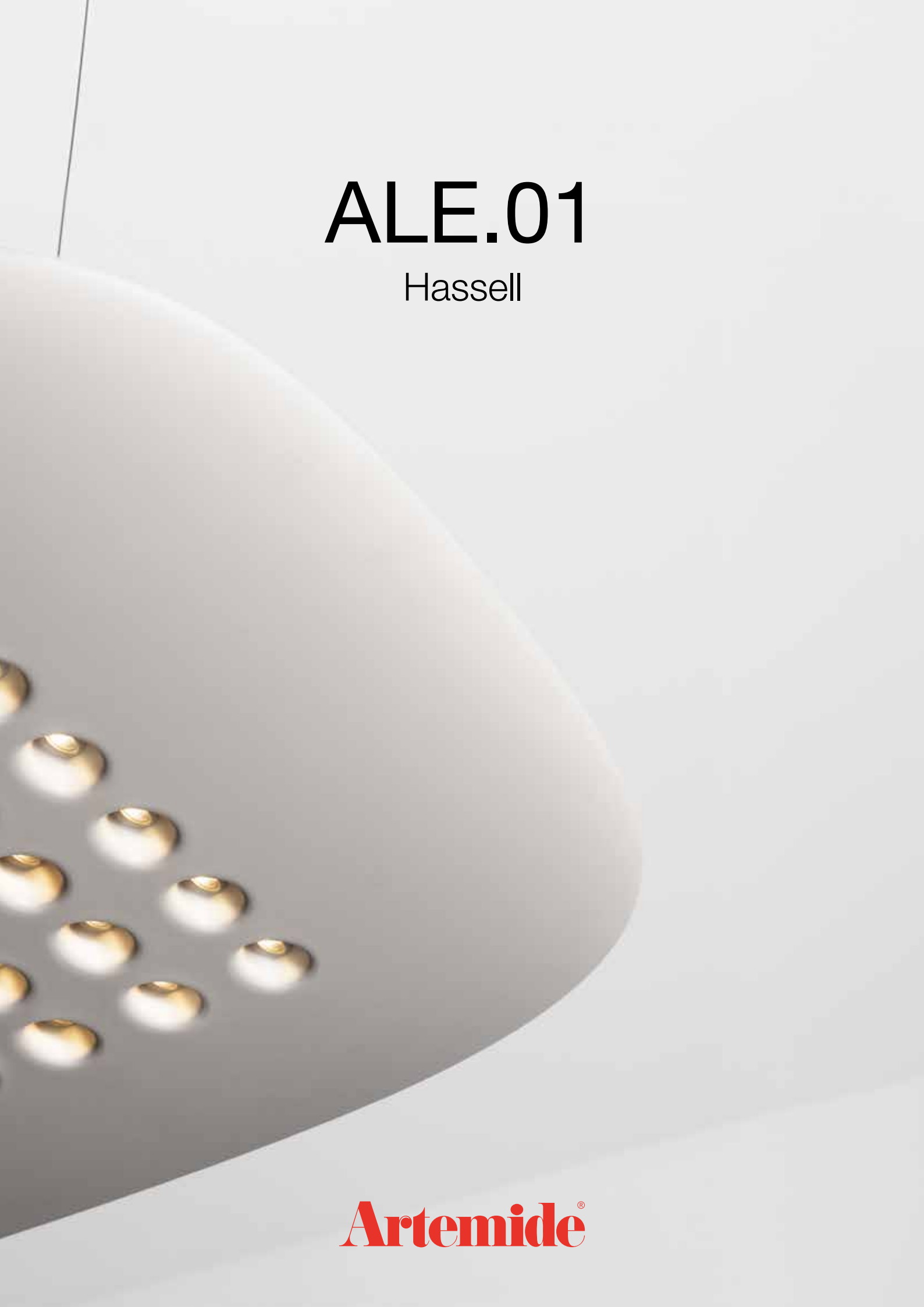
ALE.01

Hassell



Artemide®

Authors

Hassell

HASSELL is a leading international design practice with studios in Australia, China, South East Asia, the United Kingdom and the United States.

“We judge the success of the buildings and places we design by the way people use and enjoy them - the clients who commission them, the people who inhabit them. Good design is about helping clients meet their needs and objectives. It is also about the way people feel when they experience it, a sense of meaning, connection and belonging.

Our design values are shared globally across all the HASSELL studios, by the talented people who work in them: architects, interior designers, landscape architects, urban designers, planners and specialist consultants.

We work together in integrated design teams because they produce the best outcomes for our clients. The increasingly complex projects that clients bring to us demand a culture built on collaboration, creativity, and innovation in design thinking and delivery.

Openness and empathy with our clients ensure their interests are at the heart of everything we design.”

ALE.01

Hassell
2019

ALE.01 is a suspension lamp that offers multiple user adjustable options. It follows different lighting requirements over the course of the day, giving value to the perception and well-being of the individual but also paying attention to a conscious and responsible use of light energy.

ALE.01 is an example of sustainability along all its life cycle: it combines a careful and free lighting management in the use phase with innovative recycled and recyclable materials.

ALE.01 combines two different direct emissions, manageable separately, with an indirect diffused one.
The modules dedicated to direct emission consist of a series of highly efficient LED sources controlled by the patented Refractive optical technology.

The light can be adapted to the needs of each space and task according to activities and in harmony with natural light for a positive energy balance.

PATENT OF
INVENTION

For further information on ALE.01
visit artemide.com

Lighting design concept

01
Biophilic Inspiration

Hassell drew inspiration from the natural world to enhance wellbeing in the workplace through a **biophilic approach** to design.

The concept references the Mimosa pudica, a plant known for **its responsive** leaves and its ability to **adapt to changing light conditions**.

This behaviour informed the development of an organic lighting system with multiple configurations, designed to support different users and evolving workplace needs.

02
One light for different visual tasks

In a modern workplace environment, open planning and **shared spaces** are becoming increasingly common. As a result, there is a growing need for **adaptable and customisable lighting solutions**.

This light is designed to respond to different user needs within the same space, offering combinations of **ambient lighting and focus settings for up to two users**. It can be activated on one side only, allowing one person to use direct light without affecting others, or set to emit a soft indirect glow for a more diffused and ambient effect.

By offering multiple lighting configurations, it supports both **individual comfort and shared working dynamics.**

03
Adaptative light

A long, linear lighting piece designed to sit elegantly above work desks and shared tables, responding to the evolving needs of contemporary workplace settings.

Its streamlined **form integrates seamlessly into open-plan environments**, providing both functional illumination and a clear architectural presence.

04
Suitable applications

A **transversal solution** designed for professional office environments, adaptable across **workstations, dining areas, and boardrooms**. It ensures visual consistency and functional flexibility, supporting both focused individual work and collaborative interactions. The system integrates seamlessly into different spatial layouts, maintaining a cohesive aesthetic while enhancing comfort, efficiency, and overall workplace quality.

Aware energy use along life cycle

Material reduction

The product consists of a limited number of components and materials: two shells in ABS compound integrating at least 50% PCR post-consumer recycled materials, constitute the bulk of the product's volume. Injection-moulded, they are equipped with mechanical interlocks that make assembly quick and easy.

From the same moulding process, specific curvatures are also obtained in correspondence with the light sources, which, in dialogue with the lenses, also perform an anti-glare function, giving a single manufacturing step both an optical and structural value.

Inside the housing, an aluminium and steel frame forms the skeleton to which the electronic components are attached.

The canopy and steel suspension cables complete the product.

ALE.01 is designed according to sustainability principles aimed at the responsible use of natural resources, the reduction of manufacturing process diversification, as well as the reduction of energy waste.

Energy efficiency in respect of perceptual quality

ALE.01 is equipped with latest-generation LED light sources capable of achieving the following performance levels:

Efficacy > 180lm/W
Among the highest currently available on the market.

UGR < 16 for observer at desk position

CRI > 90
Suring extremely accurate colour fidelity across the entire visible spectrum.

R9 > 50
Specific parameter indicating excellent fidelity in red colour rendering, in compliance with the WELL Certification – LIGHT section, which certifies buildings, interior spaces, and communities that support human health and well-being.

CCT 3000K - 4000K
Correlated colour temperature

ALE.01 is also designed to accommodate a presence sensor, which allows the direct "focus" performance to be managed separately, in full respect of human rhythms

within built environments.

Disassembly

The various parts of the product, mechanical, optical, and electronic, are held together through mechanical fastening.
No adhesives have been used, ensuring that the product can be separated at end of life or in the event of component replacement, in a circular economy perspective.

Recycled Material

The shell of the product is crafted from an ABS compound incorporating post-consumer recycled (PCR) materials.
This innovative blend is based on recycled polymers, offering a sustainable alternative to traditional plastic.

By integrating at least 50% PCR content and giving new life to recycled materials, it significantly reduces the overall environmental impact.

This product embodies the perfect balance between functionality and eco-conscious practices, demonstrating that high-quality design can seamlessly coexist with environmental responsibility.

Less enviromental and climatic impact

Recycled materials

Less use of raw resources

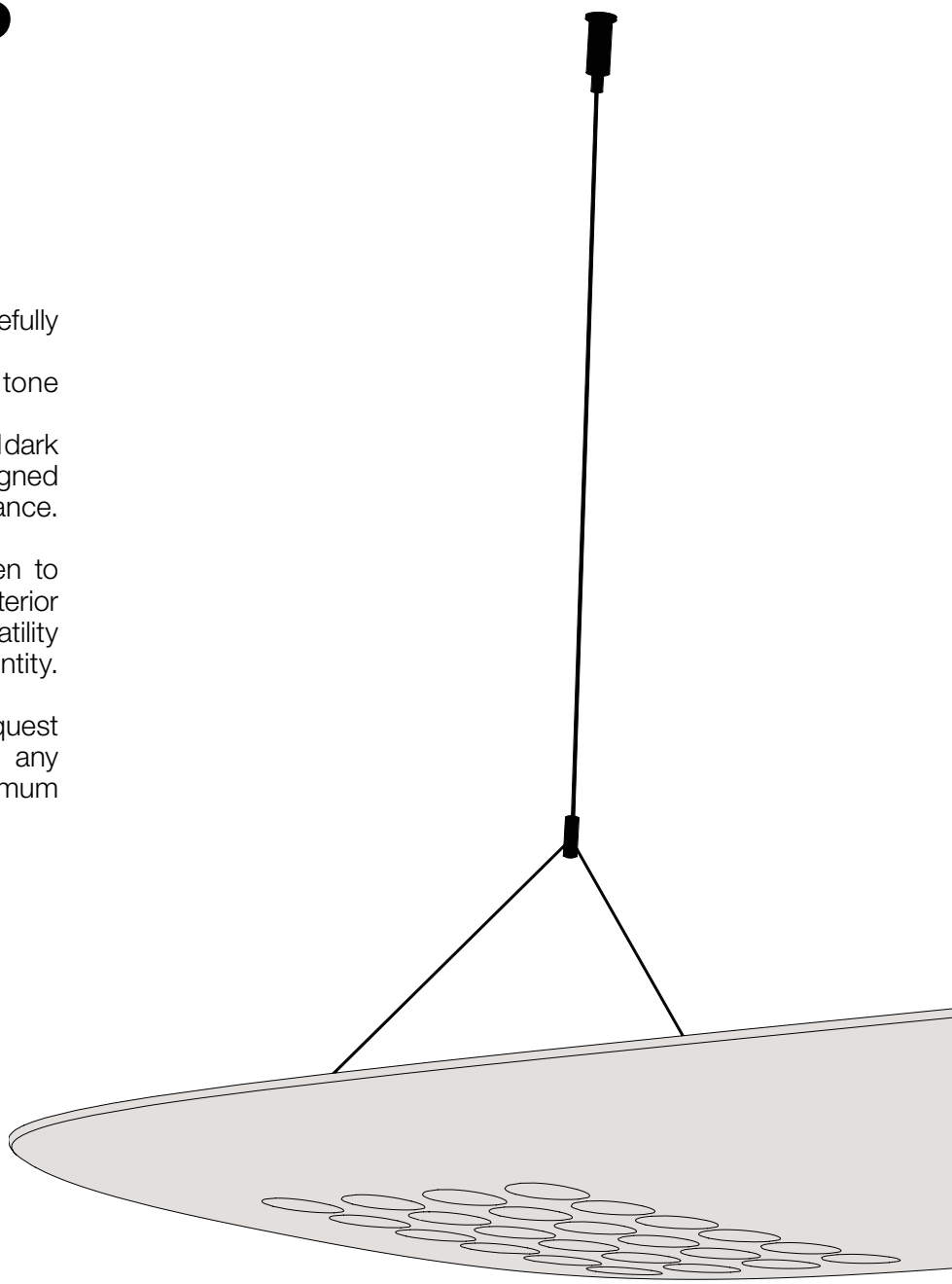
Recyclable energy production

Colours

The product is available in two carefully selected finishes:
Dove, a light and understated tone characterized by a soft, low-saturation beige, and Brown, a refined dark shade with subtle grey undertones, designed to convey a sense of neutrality and elegance.

These color options have been chosen to integrate seamlessly into a wide range of interior settings, enhancing the product's versatility without compromising its visual identity.

Additional colors are available upon request and can be customized according to any desired RAL code, allowing for maximum design flexibility.



Catalogue colors

- Dove
- Brown

Custom colours on request

Refractive Elliptical Lens

The lens is especially designed to intercept 100% of the flux emitted by the LED and control it with minimum dispersion so as to ensure high efficiency.

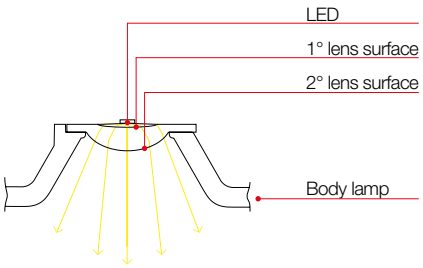
The lens is the primary optical system that collects and redirects the flux without intercepting the geometry of the body in which it is inserted, thus avoiding a deterioration in performance in terms of quantity and quality of light emission.

The special elliptical and tilted optical construction generate and asimmetrical emission perfect to light up two opposing work surfaces.

The shape of the lamp body itself act only as screens to avoid direct viewing of the LED from certain angles but do not affect the flux emitted, leaving a clean, pure light, whose characteristics are defined solely by the primary optics.

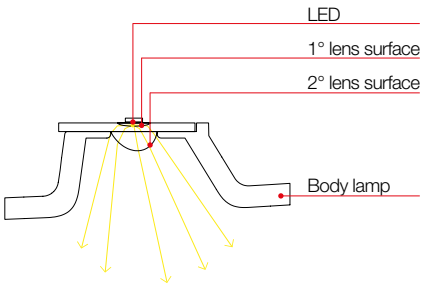
Each optical unit works as a task light thanks to personal control, ensuring precise, uniform illumination of a high perceptive quality of the light on the desk surface.

Lens longitudinal section

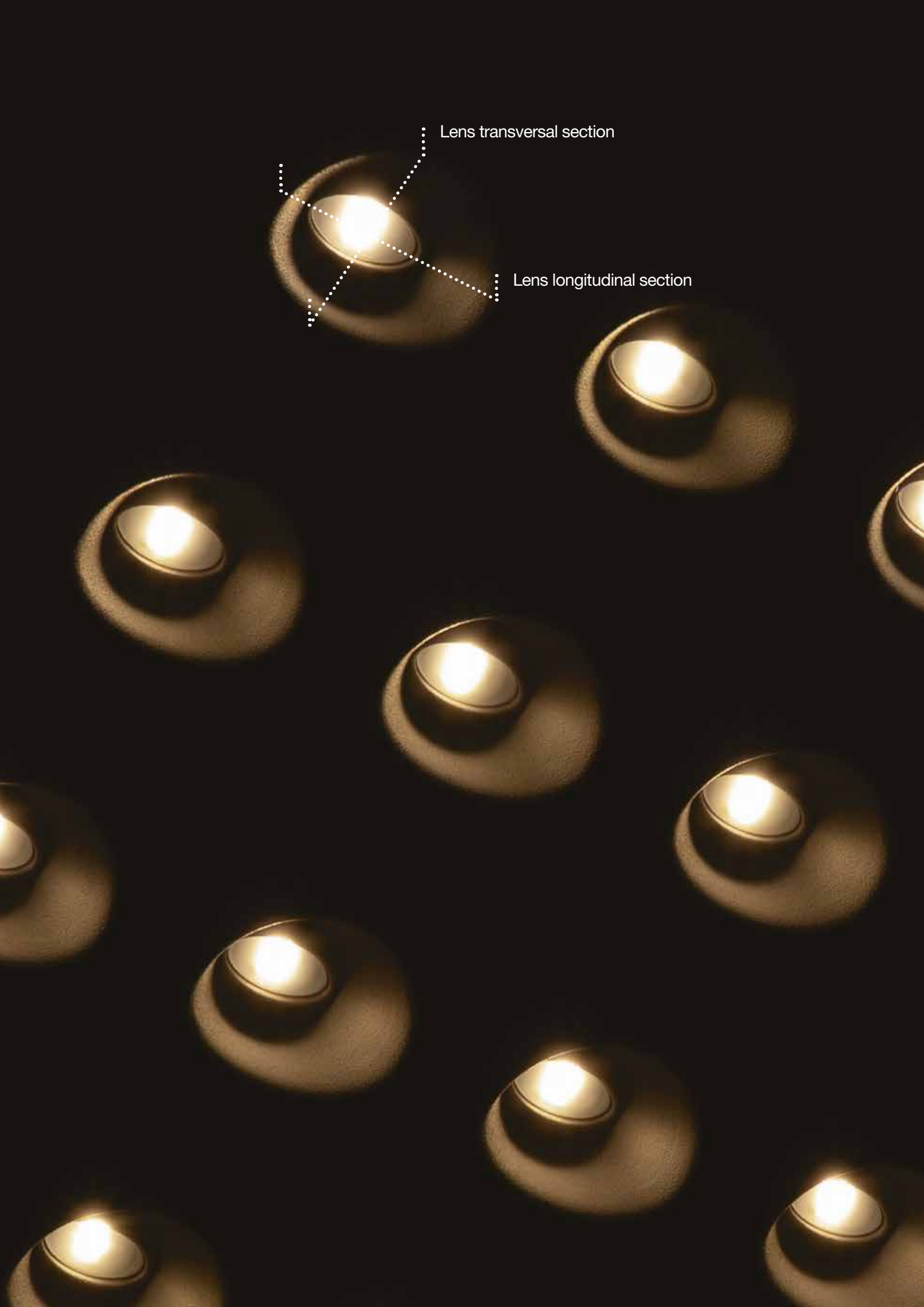


The LED position and 1° lens surface are designed in order to collect 100% of luminous flux emitted.
The 2° surface lens profile is tilted to direct light at the center of the desk.

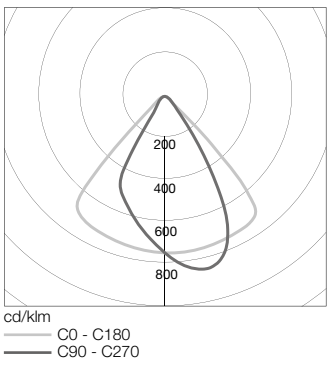
Lens transversal section

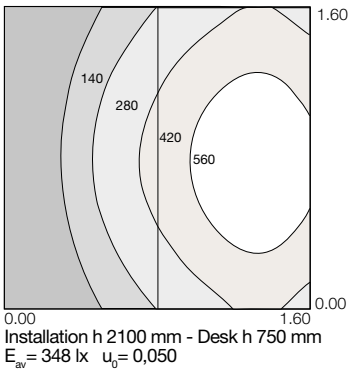


The lamp body is designed in order to support optics and to give antiglare effect


Lens transversal section
Lens longitudinal section

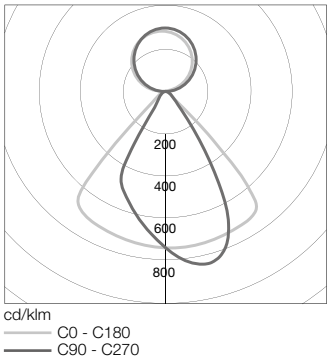
1 DIRECT EMISSION

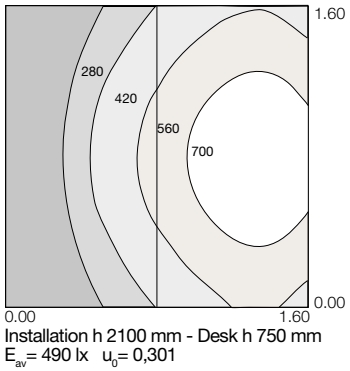




Installation h 2100 mm - Desk h 750 mm
E_{av}= 348 lx u_0= 0,050

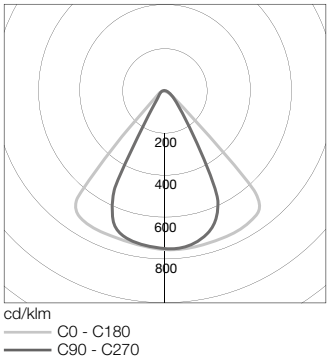
1 DIRECT + INDIRECT EMISSION

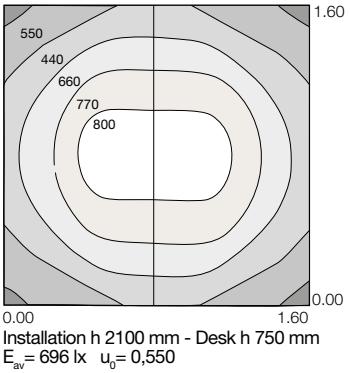




Installation h 2100 mm - Desk h 750 mm
E_{av}= 490 lx u_0= 0,301

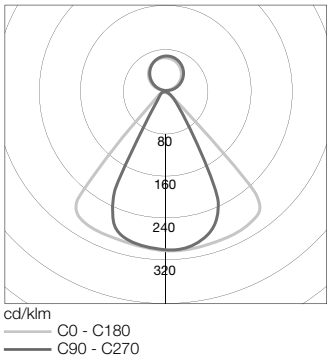
2 DIRECT EMISSION

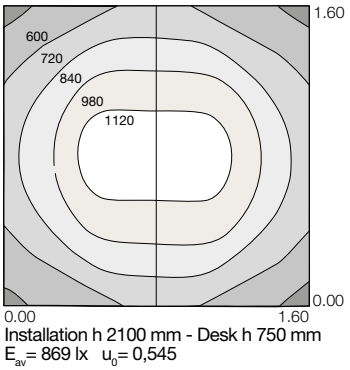




Installation h 2100 mm - Desk h 750 mm
E_{av}= 696 lx u_0= 0,550

2 DIRECT + INDIRECT EMISSION





Installation h 2100 mm - Desk h 750 mm
E_{av}= 869 lx u_0= 0,545

The isoline diagram, split into two halves, refers to the surfaces of the two desks illuminated by the light; see adjacent page.

1 DIRECT EMISSION

1 DIRECT + INDIRECT EMISSION

2 DIRECT EMISSION

2 DIRECT + INDIRECT EMISSION

Indipendent light performances

The 3 DALI addresses allow the independent control of the three lighting performance.

This means each emission can be managed separately in terms of switching and dimming, ensuring fully autonomous control of each lighting function. As a result, the lighting can be precisely adapted to different operational and environmental needs, enabling flexible and fully customizable lighting scenarios.

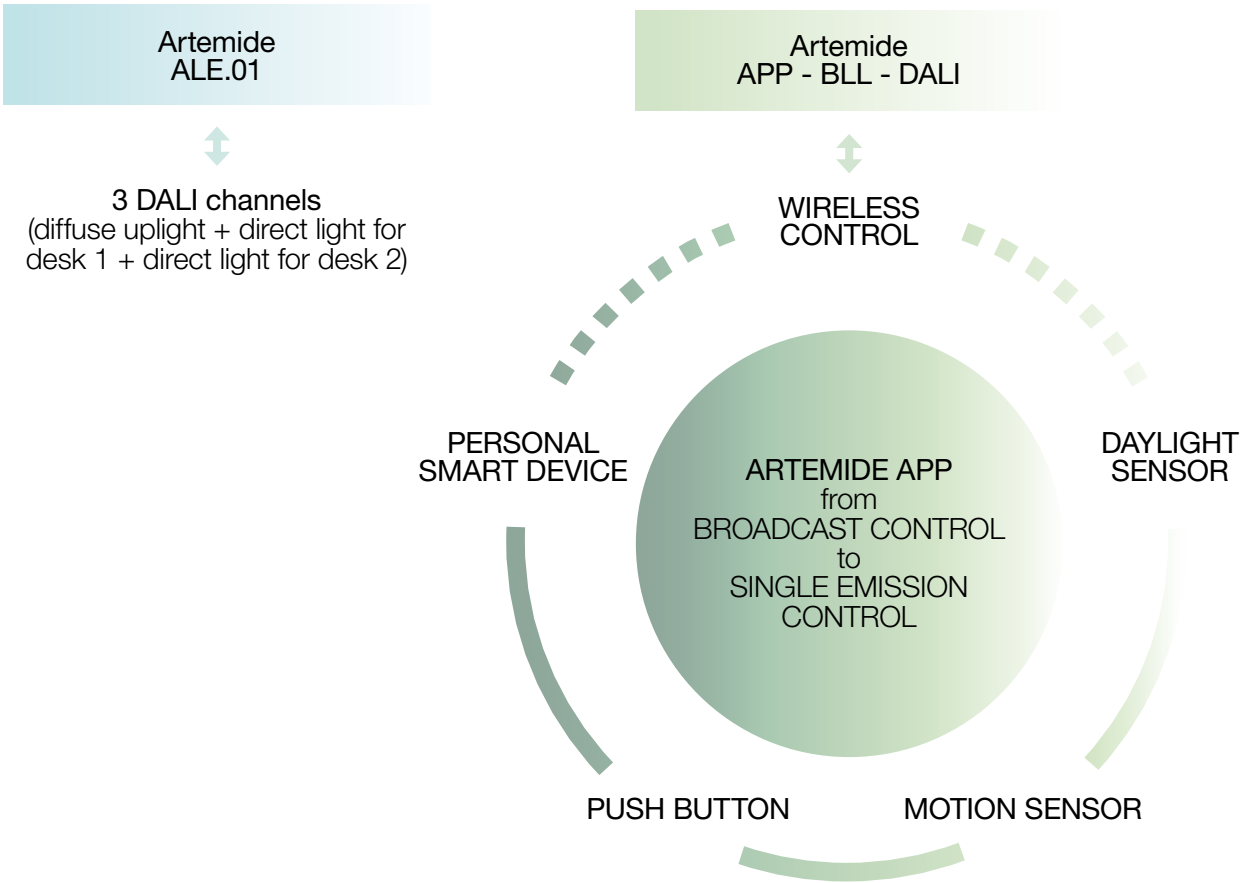
Indirect light
1 light module
1 DALI address
Direct light
2 lights modules
2 DALI addresses

Wireless source control

In line with the principle of an “adaptive” lighting project, based on a cross-functional application of the product across different work and living spaces and integrated into the possible required control scenarios, ALE.01 can also be controlled wirelessly.

The extension of control to the wireless domain, thanks to the various standard BLL devices available in the catalogue (DALI-BLL interface, BLL switches, sensors, etc.) acting as an interface to the DALI protocol, enables scalability in the selection of control scenarios.

Through group-based management, the three emissions can therefore be individually controlled and/or integrated into more complex and automated lighting and spatial scenarios.



Indipendent light source control

These are just a few scenarios representing the potential versatility and scalability of the product control system.

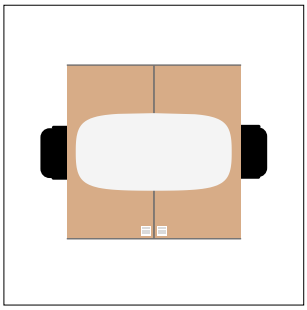
Two-persons office

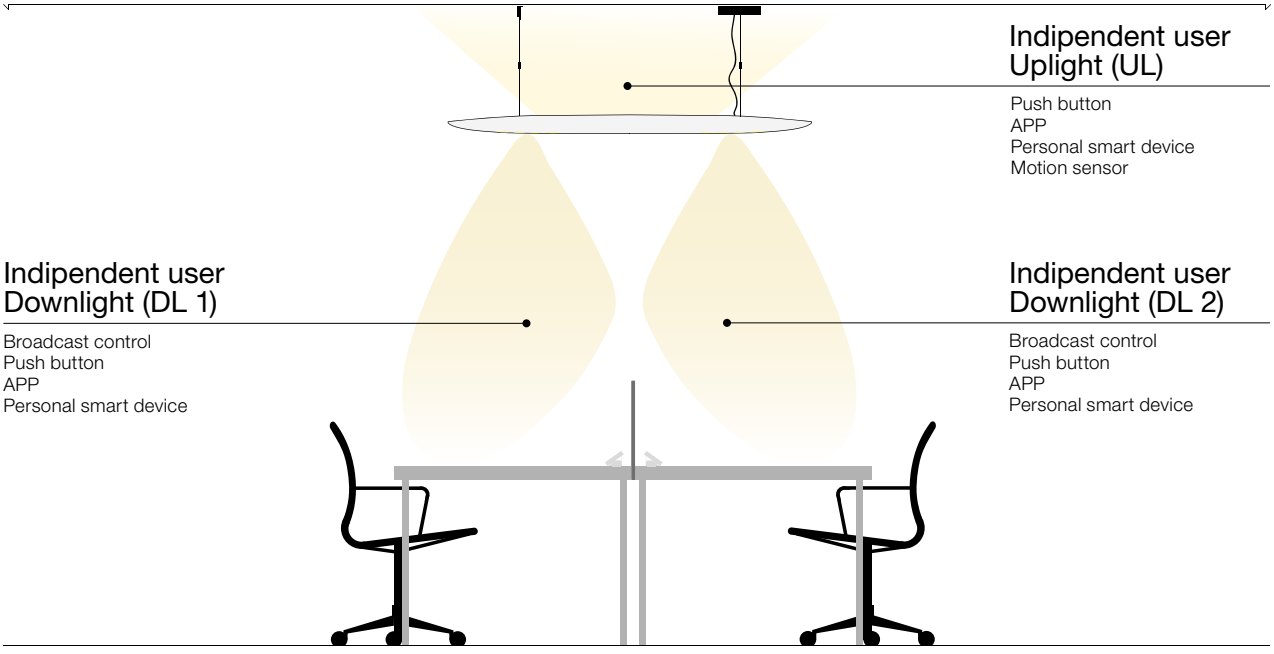
- **One person control one direct emission:** through a personal smart device and/or push button at the workstation, via manual commands or recall of pre-set scenarios.

- **One person control one direct emission:** integration of the motion sensor with manual controls.

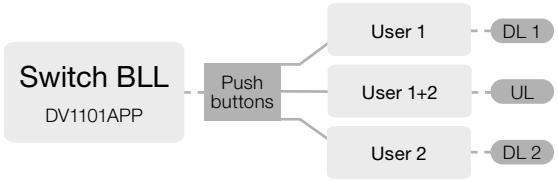
- **Two people control one indirect emission:** through a personal smart device and/or push button at the workstation, individual users can control the indirect emission via manual commands or recall of pre-set scenarios.

Simultaneous access to the Artemide App by two users requires two Switch BLL DV1101APP. Without a Switch BLL Interface, only one smart device (one user) can access and control the ALE.01 luminaire.





Individual light control



User 1

Push 1 (DL1)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

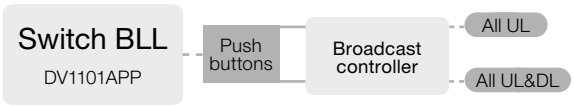
User 2

Push 1 (DL2)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 1+2

Push (UL)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

Centralized light control



Master

Push
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

Master

Push
Multiclick*
i.e.
1 click OFF

Indipendent light source control

Open-space office with multiple users

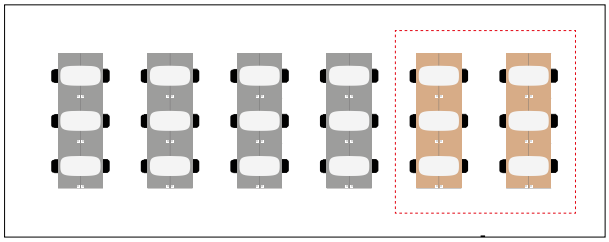
- **Direct control + systemic indirect control:** direct control of direct emissions through push button or smart device, combined with indirect emission control via pre-set scenarios and/or scheduler (only with Edimetra Gateway).

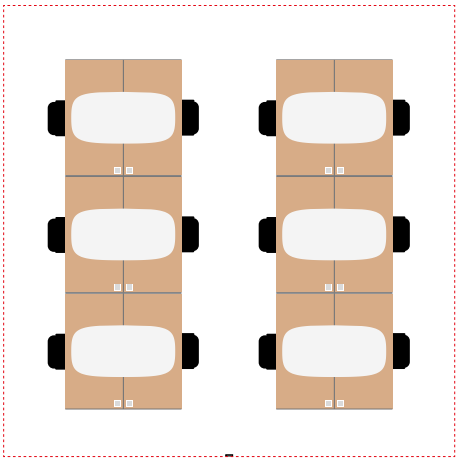
- **Direct control + systemic indirect control:** direct control of direct emissions through push button or smart device, combined with indirect emission control via daylight sensors.

- Possibility to manage, within the workspace, the control of micro-areas inside the larger open-space

For technical support regarding the different wireless management possibilities within a specific and customized project, please contact Artemide directly.

Requires one additional Switch BLL DV1101APP for each ALE.01 & one Switch BLL DV1080APP as broadcast controller. area according to the modes described above.





Multiple light control

User 1
Push (DL1)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 2
Push (DL2)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 3
Push (DL1)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 4
Push (DL2)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 5
Push (DL1)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

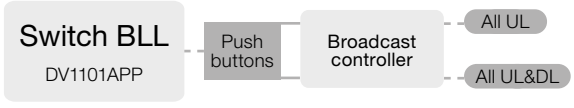
User 6
Push (DL2)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 7
Push (DL1)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

User 8
Push (DL2)
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

Maximum network capacity is 14 stations per user APP.

Centralized light control



Master
Push
Multiclick*
i.e.
1 click 50%
2 click 100%
3 click OFF

Master
Push
Multiclick*
i.e.
1 click OFF

* Multiclick up to 5 click

ALE.01

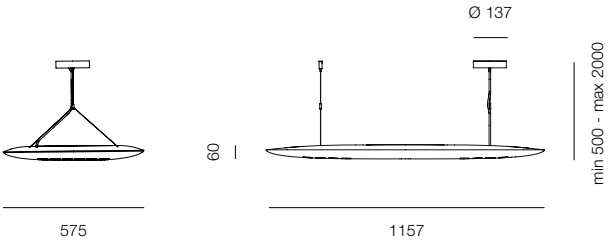
Dove Brown

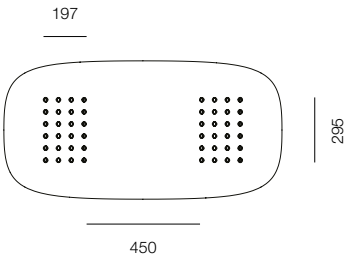
Uses 3 DALI address

MacAdam 3SDCM
Life L70 (9K) > 54000h
CRI = 90

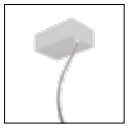
IP20

Weight	W	Flux	CCT	Colors	Dimmable DALI Code
10Kg	2x12W direct 32W indirect	2x1584 lm direct 4475 lm indirect	3000K		**1075020A**
					1075010A
			4000K		**1075N20A**
					1075N10A





Optional control devices - BLL wireless switch



Remote BLL driver for switching and controlling Artemide APP.
The BLL driver app supports the following control modes: Artemide APP and personal smart device.

Code
DV1054APP

Device for switching and controlling Artemide APP.
Installation as indipendent use. Max 15 m distance.
Mains power supply required.
The device app supports the following control modes: motion sensor, daylight sensor, push button and broadcast controll.

*Maximum network capacity is 14 stations per user APP.

DV1101APP

Edimetra Gateway.
Integrated wifi network.
Integrated antenna.
Included USB type C wire.
Adapter 5V 2A not included.
For advanced lighting control, enabling on/off switching, dimming, scene recall, scheduling and voice control via Amazon Alexa.

DV900301APP

Device for switching and controlling Artemide App products.
Max N.3 inputs for external push buttons.
Max 1 m distance.
Mains power supply required.
To be installed inside flush mounting boxes or junction boxes.

DV1080APP

Artemide®

Headquarters

Artemide S.p.A.
Via Bergamo, 18
20006 Pregnana Milanese (MI), Italy
Tel. +39 02 93518.1
Tel. +39 02 93526.1
Numero verde 800 834 093
(from Italy only)
info@artemide.com
artemide.com

Artemide S.p.A.
si riserva la facoltà di modificare, in qualunque momento e senza preavviso, le caratteristiche tecniche degli elementi illustrati nel presente catalogo.

Artemide S.p.A.
reserves the right to change, at any time and without prior warning, the technical specifications of any product illustrated in this catalogue.

Artemide S.p.A.
se réserve le droit de modifier, à n'importe quel moment et sans préavis, les caractéristiques techniques des éléments illustrés dans ce catalogue.

Artemide S.p.A.
behält sich das Recht vor jederzeit und ohne Ankündigung die technischen Daten der im Katalog abgebildetem Produkte zu ändern.

Artemide S.p.A.
se reserva la facultad de modificar, en cualquier y sin aviso previo, las características técnicas de los elementos ilustrados en el presente catálgo.

For information regarding distributors and points of sale, please visit our website artemide.com or email: info@artemide.com