

INCREASED ENERGY
EFFICIENCY WITH DALI-2
CONTROLLERS
FROM ESYLUX:

COMPACT APC



SMARTCONTROLLER APC



CREATE ENERGY-EFFICIENT, HEALTHY LIGHTING. ESY!

LENJA SERIES SURFACE-MOUNTED CEILING LUMINAIRES AND PENDANT LIGHTS

- Tunable White variants for energy-efficient Human Centric Lighting
- High luminous efficacy of up to 148 lm/W (LENJA CL) or 159 lm/W (LENJA PDL)
- Pendant lights with an indirect light proportion of 45 % for harmonious illumination of rooms
- Surface-mounted variants with protection type IP44
- Easy installation and integration into an intelligent light control system



PERFORMANCE FOR SIMPLICITY

ESYLUX GmbH & Co. KG | sales@esylux.com | www.esylux.com

VERSATILE APPLICATIONS

From classrooms and offices to retirement homes: Pendant lights and surface-mounted luminaires from the LENJA series are ideal for energy-efficient modernisation of a wide variety of applications due to their high luminous efficacy – and the Tunable White variants are perfect for healthy and stimulating Human Centric Lighting. The pendant lights feature a high indirect light proportion of 45 %, ensuring harmonious illumination of rooms. The surface-mounted variants offer protection type IP44, allowing for homogenous and dazzle-free lighting, including in sanitary rooms.



- Flat luminaires in a powder-coated metal housing with a front that is made from a single piece
- Versions with Tunable White (2700 – 6500 K) or with fixed light colour (3000 or 4000 K)
- LENJA PDL: High indirect light proportion of 45 %
- DALI-2-certified driver for energy-efficient light control
- LENJA PDL: Blank module 600 mm and end cap 100 mm each with an integrated PD-FLAT BMS DALI-2 presence detector as an optional accessory
- High luminous efficacy of up to 148 lm/W (LENJA CL) or 159 lm/W (LENJA PDL)
- Long LED service life of up to 100,000 h L80B50 at 25 °C
- Homogenous, dazzle-free illumination due to the backlight arrangement of the LEDs
- High-quality, opal, micro-prismatic diffuser made from PC plastic
- Suitable for screen-based workplaces due to UGR ≤ 19
- LENJA PDL: Protection type IP40 prevents insects from entering
- LENJA CL: Protection type IP44 enables use in sanitary/side rooms
- Manual adjustment of the light colour and brightness of the Tunable White luminaires possible via ESYLUX push button
- SwitchDIM function for dimming individual luminaires via conventional push button
- Variants with emergency lighting module for security lighting with durable LiFePO4 battery (3 h) and automatic testing



- Tunable White variants for energy-efficient Human Centric Lighting
- High luminous efficacy of up to 148 lm/W (LENJA CL) or 159 lm/W (LENJA PDL)
- Pendant lights with an indirect light proportion of 45 % for harmonious illumination of rooms
- Surface-mounted variants with protection type IP44

LET IN THE LIGHT

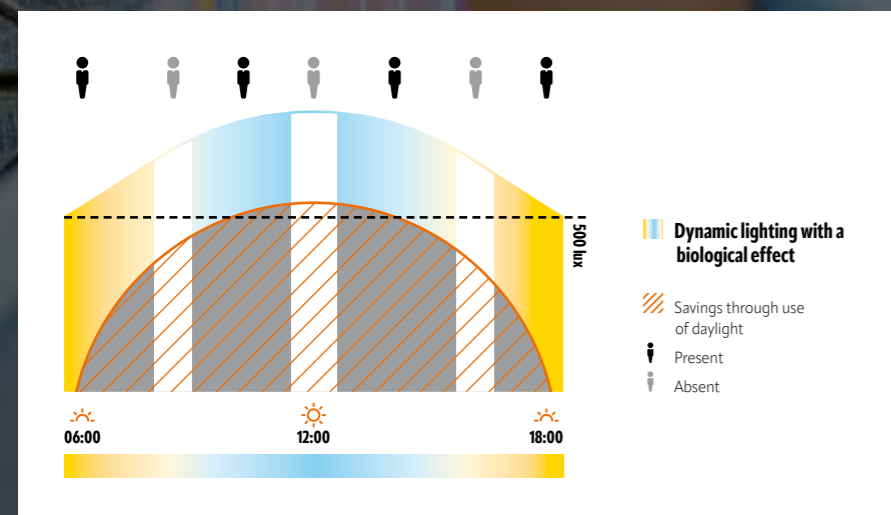
Human Centric Lighting (HCL) is the best form of indoor lighting for people. Many scientific studies emphatically prove that its daylight-imitating brightness and colour gradients improve well-being, performance and concentration. By stabilising circadian rhythms, it also promotes sleep quality and health and its higher illuminance alone reduces the risk of falls among the elderly, for example.

ENERGY-EFFICIENT HUMAN CENTRIC LIGHTING

Tunable White variants from the LENJA series and ESYLUX DALI-2 light control systems further improve quality of life with a versatile luminaire design and especially energy-efficient implementation. This is because the presence- and daylight-dependent HCL light control offered by SymbiLogic technology reduces the energy consumption of Human Centric Lighting, making this form of lighting fit for a sustainable future.

SYMBILOGIC IN SCHOOLS

In classrooms, Human Centric Lighting improves learning over the long-term. In a study conducted by the University Medical Centre Hamburg-Eppendorf in Germany, reading speed increased by more than 30 % and the error rate decreased by 45 %. The targeted use of dimmed, warm, white lighting even enabled restlessness to be reduced by 76 %. And, of course, the teaching staff also benefitted from the positive effects of the HCL!



- ↑ **INCREASES**
VITALITY
MOTIVATION
PERFORMANCE
- ↓ **REDUCES**
ERRORS
ABSENCES
RESTLESSNESS

Control via
COMPACT APC30 HCL



or via
SMARTCONTROLLER APC30 HCL

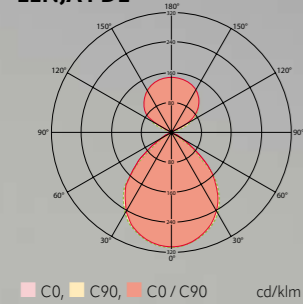


ELEGANT SUSPENDED MOUNTING

◀ The combination of 55 % direct and 45 % indirect light provides an optimal balance of light and shadow. This makes architectural features and their surface textures – as well as people and objects – more clearly discernible.

LIGHT DISTRIBUTION

LENJA PDL



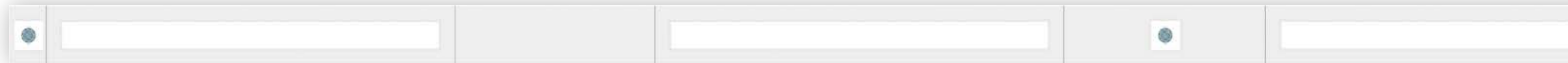
PRODUCT OVERVIEW

Product group / product name	Item no.	Light colour (EC1231)	Luminous flux	Rated output P	Luminous efficacy	Unified Glare Rating	Glare suppression	Diffuser	Protection type	Control system	Energy efficiency class	Dimensions (mm)	New
LENJA PDL 1200 DDP OP 6800 830 IP40 DALI-2 (white, similar to RAL 9003)	EO10850769	830	6800 lm	44.5 W	152 lm/W	< 19	DDP	OP	IP40	DALI-2	LED EEI C	X 1215, Y 175, Z 40	★
LENJA PDL 1200 DDP OP 6800 830 IP40 3h DALI-2 (white, similar to RAL 9003)	EO10850790	830	6800 lm	45.5 W	149 lm/W	< 19	DDP	OP	IP40	DALI-2	LED EEI C	X 1215, Y 175, Z 40	★
LENJA PDL 1200 DDP OP 7100 840 IP40 DALI-2 (white, similar to RAL 9003)	EO10850752	840	7100 lm	44.4 W	159 lm/W	< 19	DDP	OP	IP40	DALI-2	LED EEI C	X 1215, Y 175, Z 40	★
LENJA PDL 1200 DDP OP 7100 840 IP40 3h DALI-2 (white, similar to RAL 9003)	EO10850783	840	7100 lm	45.4 W	156 lm/W	< 19	DDP	OP	IP40	DALI-2	LED EEI C	X 1215, Y 175, Z 40	★

LENJA PDL 100 END CAP WITH PD-FLAT BMS DALI-2
EO10850868

LENJA PDL 600 BLANK MODULE
EO10850844

LENJA PDL 600 MODULE WITH PD-FLAT BMS DALI-2
EO10850851



End caps and blank modules with built-in BMS presence detectors from the FLAT series enable LENJA pendant lights to be integrated into an ESYLUX DALI-2 light control system in a visually harmonious manner. ▲



LENJA PDL CONNECTION SET*
EO10850837

* Connects two continuous row elements together.



LENJA PDL WIRE PENDULUM SET 2000*
EO10850813

* Used for suspending luminaires, modules with presence detectors and empty modules.



LENJA PDL CANOPY WITH CABLE 5X0.75*
EO10850820

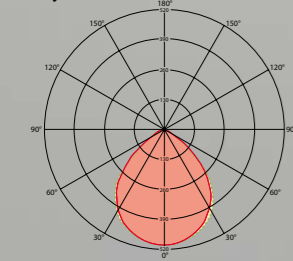
* Power supply for up to two luminaires and connection to the DALI bus.

SIMPLE SURFACE MOUNTING



LIGHT DISTRIBUTION

LENJA CL



■ C0, ■ C90, ■ C0 / C90 cd/klm

Due to their protection type IP44, LENJA surface-mounted luminaires are also ideal for use in changing rooms, for example. ▼



MOUNTING

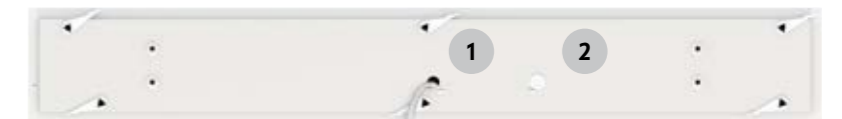
PRODUCT OVERVIEW

Product group / product name	Item no.	Light colour (EC1231)	Luminous flux	Rated output P	Luminous efficacy	Unified Glare Rating	Glare suppression	Diffuser	Protection type	Control system	Energy efficiency class	Dimensions (mm)	New
LENJA CL 1200 DDP OP 4600 8TW IP44 DALI-2 DT8 (white, similar to RAL 9003)	EO10850714	8TW	4600 lm	41.9 W	109 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF D	X 1203, Y 175, Z 47	★
LENJA CL 1200 DDP OP 4600 8TW IP44 3h DALI-2 DT8 (white, similar to RAL 9003)	EO10850745	8TW	4600 lm	42.9 W	107 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF D	X 1203, Y 175, Z 47	★
LENJA CL 1200 DDP OP 4300 830 IP44 DALI-2 (white, similar to RAL 9003)	EO10850707	830	4300 lm	30.4 W	141 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF C	X 1203, Y 175, Z 47	★
LENJA CL 1200 DDP OP 4300 830 IP44 3h DALI-2 (white, similar to RAL 9003)	EO10850738	830	4300 lm	31.4 W	136 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF C	X 1203, Y 175, Z 47	★
LENJA CL 1200 DDP OP 4500 840 IP44 DALI-2 (white, similar to RAL 9003)	EO10850691	840	4500 lm	30.3 W	148 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF C	X 1203, Y 175, Z 47	★
LENJA CL 1200 DDP OP 4500 840 IP44 3h DALI-2 (white, similar to RAL 9003)	EO10850721	840	4500 lm	31.3 W	143 lm/W	< 19	DDP	OP	IP44	DALI-2	LED EEF C	X 1203, Y 175, Z 47	★

5-wire cable with 230 V voltage and DALI-2 control line can be flexibly inserted into the housing:

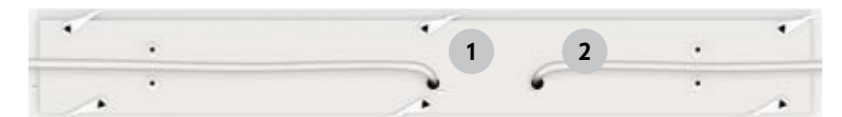
Option 1

Cable entering in the centre (1) or slightly offset (2)



Option 2

Surface-mounted cable entering from the side into the opening (1) and exiting from (2) for through-wiring of multiple light strips.



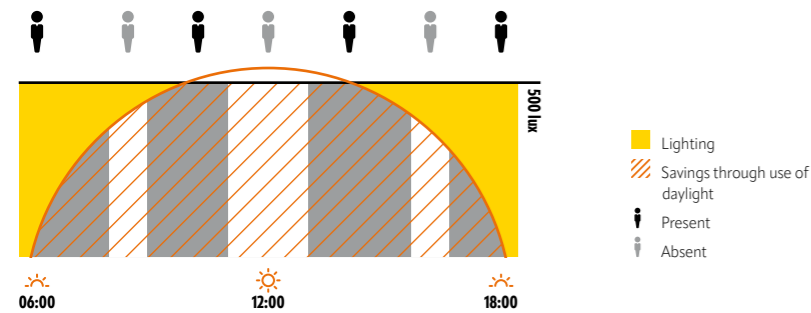
The simple locking mechanism means that ceiling mounting can be completed by just one person. ▼



AND FLEXIBLE CONTROL

Whether energy-efficient Human Centric Lighting or presence- and daylight-dependent constant light control: An ESYLUX DALI-2 light control system is the first choice for creating maximum quality of life and energy efficiency with LENJA. The cross-manufacturer interoperability and backwards compatibility of DALI-2 opens up further application options – as does control via push button only!

PRESENCE- AND DAYLIGHT-DEPENDENT CONSTANT LIGHT CONTROL



Presence- and daylight-dependent constant light control is the most energy-efficient way to use daylight in lighting with a fixed light colour.

ALL CONTROL OPTIONS AT A GLANCE

	DALI-2 light control system ESYLUX (or third-party provider)	ESYLUX Light Control ESYLUX (DALI broadcast output)	COMPACT DUO DALI ESYLUX (DALI broadcast)	DALI broadcast push button TW ESYLUX (EO10431388)	SwitchDIM (with conventional push button)
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LENJA Tunable White	•	•		•	•
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LENJA Fixed light colour	•	•	•		•
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DALI-2 LIGHT CONTROL FROM ESYLUX

Control via
COMPACT APC

or via
SMARTCONTROLLER APC



(Additional input devices: BMS presence detectors, DALI-2 push buttons, conventional push buttons)

APPLICATION EXAMPLES*

- Individual control of up to 64 control gears in up to 16 groups
- Energy-efficient Human Centric Lighting (SymbiLogic)
- Presence- and daylight-dependent constant light control
- Afterglow and orientation light
- Flexible switching of groups
- Weekday- and time-dependent control
- Standby switch-off
- Swarm function
- Central function
- Night mode
- Alarm functions

* Range of functions dependent on the specification level.

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