LEDVANCE

LIGHT MANAGEMENT CAN BE SO EASY!

HCL — BIOLUX HCL

TW — TUNABLE WHITE

NOW TWICE AS NICE!

OUR NEW GENERATION OF DALI-2 LUMINAIRES FOR TUNABLE WHITE AND HCL APPLICATIONS.
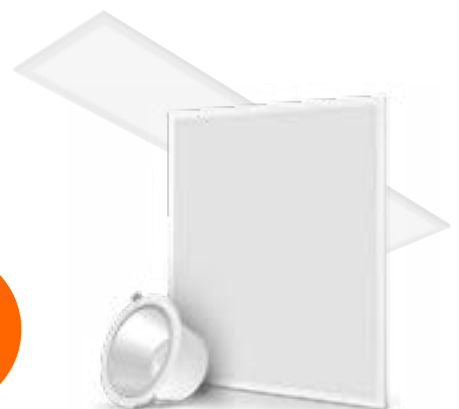
ONE FAMILY, TWO SYSTEMS, ALL OPTIONS

Our new generation of DALI-2 IoT[1] luminaires makes it easier than ever to wow your customers with modern light management solutions. The luminaire family has become more versatile, powerful and efficient, and is fit for both Tunable White and BIOLUX HCL applications. Discover the possibilities!
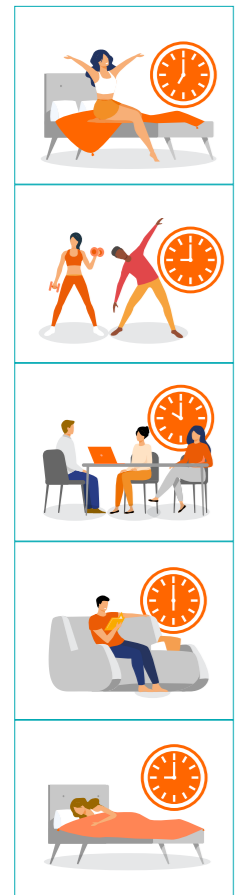
Possible applications of the new DALI-2 luminaires
HUMAN CENTRIC LIGHTING SYSTEM

HCL — **THE LIGHT FOR MORE WELL-BEING**

— Simulation of the natural daylight curve creating a positive biological effect
— Automated control but adjustable if desired
— Energy/cost savings since less brightness required in the mornings and evenings
— Up to **30 %** additional savings with daylight/presence sensors
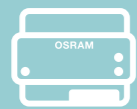
RECOMMENDED CONTROLLER: DALI PRO2 IOT LDVV

— Programmed using data from a light curve based on scientific studies
— Complements DALI-2 IoT luminaires to create an HCL system for single and open-plan offices

FIT FOR HCL AND TUNABLE WHITE

HCL CAN NOW ALSO BE USED WITH DAYLIGHT CONTROL

Possible applications of the new DALI-2 luminaires
TUNABLE WHITE SYSTEM

TW — **THE LIGHT THAT CAN BE PERSONALIZED**

— Light color and brightness manually adjustable based on preferences and activity
— Choice of light colors from 2 700 K to 6 500 K
— Brightness adjustable from 1 – 100 %
— Greater energy savings in combination with daylight/presence sensors

RECOMMENDED CONTROLLERS: DALI MCU TW, DALI PCU TW, DALI ECO BT, DALI ACU BT

— DALI-2 luminaires compatible with many other Tunable White capable DALI-2 controllers
— From one source at LEDVANCE or third parties
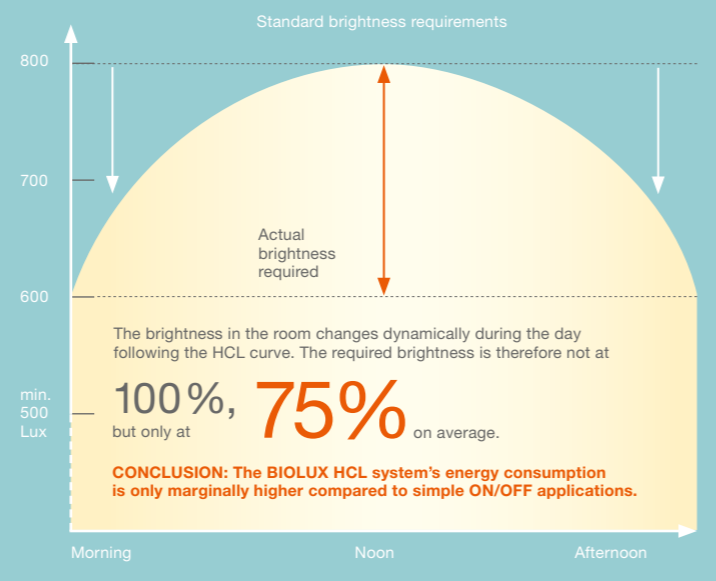— From the LEDVANCE VALUE solution for single offices to the SUPERIOR system for installations in open-plan offices

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DID YOU KNOW?
The BIOLUX HCL luminaires from LEDVANCE have a color rendering index (CRI) of at least 90. This means that illuminance can be 15 % lower compared to luminaires with CRI 80 to achieve a biological effect in everyday use. As a result, fewer luminaires are needed which saves electricity costs and supports sustainability.

The system simulates the daylight curve using the light coming from outside.

ENERGY CONSUMPTION OF HCL APPLICATIONS

Standard brightness requirements

800

700

600

Actual brightness required

The brightness in the room changes dynamically during the day following the HCL curve. The required brightness is therefore not at

min. 500 Lux

100 %, but only at **75%** on average.

CONCLUSION: The BIOLUX HCL system's energy consumption is only marginally higher compared to simple ON/OFF applications.

Morning   Noon   Afternoon

The staff room is used by different people. The light color can be adjusted manually to suit personal preferences.

From meetings to screen work, the light color in the office can be manually adjusted to suit the job.

In the teacher's room, the light color can be individually adjusted, and daylight and presence sensors provide great energy savings.

[1] IoT = Internet of Things. This means that the systems can provide evaluations in the form of dashboards or can be connected to cloud solutions that monitor energy consumption and maintenance cycles, for example.

ABOUT LEDVANCE

With subsidiaries in more than 50 countries and business activities in over 140 countries, LEDVANCE is one of the world's leading companies in the field of general lighting for professional customers and end users. Emerging from OSRAM's general lighting division, LEDVANCE's portfolio includes a wide range of LED luminaires for a variety of applications, intelligent lighting products for smart homes and smart buildings, one of the most comprehensive offerings of advanced LED lamps in the lighting industry, and traditional lamps. Beyond lighting, LEDVANCE offers vertically integrated, renewable energy solutions for the building sector. Together, the lighting division and the renewable energy division form a comprehensive ecosystem for residential, commercial, and industrial buildings.
For more information, visit www.ledvance.com.

LEDVANCE

LEDVANCE GmbH
Parkring 1–5
85748 Garching
Germany
LEDVANCE.COM

DALI-2 IOT[1] LUMINAIRES GEN 2 – FIT FOR BIOLUX HCL OR TUNABLE WHITE APPLICATIONS

Product name	Segmentation	GTIN (EAN)	W	lm	lm/W	K	°∠	⌒	L × W × H [mm] / Ø × H [mm]
BIOLUX HCL PANEL TW DALI								WARM COOL / DALI-2 / UGR <19 / CRI >90 / SDCM ≤3 / 5 YEARS GUARANTEE[2]	
BIOLUX HCL PL 600 S 40W TW DALI	■	4099854**140068**	40	4 600	115	2 700…6 500	90	DALI2	595 × 595 × 11
BIOLUX HCL PL 625 S 40W TW DALI	■	4099854**140167**	40	4 600	115	2 700…6 500	90	DALI2	620 × 620 × 11
BIOLUX HCL PL 625 S 40W TW CSW[3] DALI	■	4099854**140273**	40	4 600	115	2 700…6 500	90	DALI2	620 × 620 × 11
BIOLUX HCL PL 1200 S 37W TW DALI	■	4099854**140228**	37	4 100	102	2 700…6 500	90	DALI2	1 195 × 295 × 11
BIOLUX HCL DOWNLIGHT TW DALI									
BIOLUX HCL DL DN150 S 21W TW DALI	■	4099854**140310**	21	2 200	105	2 700…6 500	60	DALI2	175 × 99

All luminaires support DALI-2 Energy Data (DALI part 252) and DALI-2 Diagnostic Data (DALI part 253) The Panel luminaires can be combined with accessories for e.g. surface mounting and suspension.
You can find them here: ledvance.com/panel-accessories

DALI 2

LMS READY WITH THE RIGHT CONTROLLER – FOR TUNABLE WHITE AND BIOLUX HCL

Always a suitable solution: from SUPERIOR to VALUE CLASS and full compatibility with 3rd party DALI-2 products

SUPERIOR	PERFORMANCE	VALUE	EXTERNAL 3rd party
OPEN-PLAN LIGHTING for up to 1 000 sqm space DALI Pro2 IoT LDVV controller (VIVARES DALI SYSTEM)	**SINGLE ROOM LIGHTING** for up to 150 sqm space DALI ACU BT, DALI ECO BT, DALI ECO BT RTC	**SINGLE ROOM LIGHTING** for up to 120 sqm space DALI MCU TW G2, DALI PCU TW G2	**FULL COMPATIBILITY WITH 3rd PARTY SYSTEMS** Due to DALI-2 certification of all luminaires
Application: Tunable White + BIOLUX HCL	**Application:** Tunable White	**Application:** Tunable White	**Requirement:** Controller is supporting Tunable White
EAN: 4052899**627079**	EAN: 4052899**544819** EAN: 4052899**988781** EAN: 4062172**016537**	EAN: 4062172**224673** EAN: 4052899**631625**	

UP TO 30 % OF ENERGY SAVINGS – WITH ADDITIONAL SENSORS

The following OSRAM sensors for presence detection and daylight harvesting are perfect to combine with either the BIOLUX HCL or Tunable White systems.

SENSOR

DALI SENSOR LS/PD CI G2 BT1	EAN:	4062172**072083**
DALI-2 SENSOR LS/PD O CI	EAN:	4052899**630444**
DALI-2 SENSOR LS/PD C CI	EAN:	4052899**630451**
DALI-2 SENSOR LS/PD W CM	EAN:	4052899**630468**
QBM 220-240 LS/PD CM KIT FS1	EAN:	4062172**161466**

GET IN TOUCH:
Tel.: XXXXXXXXXX
Mail: XXXXXXXXXX

Further information about systems and products can be found at
ledvance.com/lms

■ SUPERIOR CLASS ■ PERFORMANCE CLASS ■ VALUE CLASS

[1] IoT = Internet of Things. This means that the systems can provide evaluations in the form of dashboards or can be connected to cloud solutions that monitor energy consumption and maintenance cycles, for example.
[2] Refer to www.ledvance.com/guarantee for precise conditions | [3] With pre-mounted Wago connector

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