

TALEX LED PREMIUM
Tunable White



Spotlights



Downlights



Linear



Wide Area



Floor | Wall



Free Standing



Decorative



High Bay

Tunable White gives you the option of setting the colour temperature of white light to any value.

With the right colour temperature and illumination it is possible to feel comfortable despite artificial lighting whether you are working in an office, studying at university or recovering in hospital. The “Tunable White” solution simulates natural daylight and can adapt to personal requirements. For example, the well-being of patients in healthcare facilities is improved and the healing process is accelerated. Students and office workers also benefit from this lighting system as they are able to concentrate for longer and are more productive.

The colour temperature can be set to any value. The colourSWITCH mode available for spotlights enables the light colour to be selected specifically for the application. This is useful particularly in the retail sector as it allows the merchandise to be presented in the most appropriate light. The system can also be dimmed between 100 % and 15 % (10 % for LLE and QLE) without shifting the colour temperature. The system is precalibrated at the factory and can be used immediately without any further adjustment.

PREMIUM Tunable White System

The PREMIUM Tunable White system is available as a kit with LED modules and a pre-configured converter. The set enables the sequence of daylight to be simulated in spotlights as well as in linear and planar lighting.

LED-Driver

LED-Modul

Tunable White for spotlights:
2,700–6,500K with a CRI of > 90

Tunable White for linear and planar lighting:
3,000–6,000K with a CRI of > 80

Product Portfolio – Overview

Spotlight



TALEXengine SLE
2.700–6.500K

on page 4

Linear area



TALEXengine LLE
3.000–6.000K

on page 6

Wide area



TALEXengine QLE
3.000–6.000K

on page 8

Typical applications

Office & Education

- Simulation of the changes in natural light throughout the day
- Increased concentration and productivity



Retail

- Product-specific lighting
- Seasonal lighting



Health Care

- Simulation of the changes in natural light throughout the day
- Improved well-being
- Therapeutic support



Sample application in an office



08:00 Warm white light gets the day off to an agreeable start



10:30 Artificial lighting is turned down as more daylight becomes available, light colour is made more intermediate



12:00 Just as outdoors, the colour temperature reaches its maximum level at midday



14:30 Intermediate white luminaires supplement the general lighting and compensate for low levels of daylight



17:00 When darkness falls, artificial lighting ensures a balanced ratio of warm white light components



Changes in the light in the course of a day



Biologically effective changes in the light

These timelines show various ways of modifying colour temperature in a biologically effective manner: the upper timeline and the series of photos show variation that is synced with daylight. The lower timeline uses biologically effective light to speed up the inner body clock in the morning; this has a positive impact on sleep behaviour. The typical afternoon dip in energy levels is also compensated by an invigorating light component.

TALEXengine SLE PREMIUM



Typical applications



▼ At a glance: TALEXengine SLE PREMIUM


- ___ Colour temperature: 2,700K to 6,500K; Tunable White (dimnable and controllable colour temperatures along the planckian curve)
- ___ Extended colour space for individual colour spectrum e.g. for lighting for food
- ___ Colour rendering/colour tolerance: CRI > 90 / MacAdam 3
- ___ Dimming range of 100 to 15 % without changing the colour temperature
- ___ Low-profile LED Drivers with digital interface (DALI DT8, DSI, switchDIM, colourSWITCH) and very low standby power (<0.5W)
- ___ Luminous flux tp = 65 °C): 2,050lm or 1,350lm
- ___ Long lifetime of 50,000 hours
- ___ System guarantee: 5 years

TALEXengine SLE PREMIUM

Type	System components	Colour temperature	Mac Adam	Typ. luminous flux ¹⁾	CRI	Typ. power consumption. ¹⁾	System efficacy	Size	Order No.
STARK-SLE-2000-PRE-KIT	LMAI + SLE-2000 with housing	2,700K – 6,500K Tunable White	SDCM 3	2,050lm	> 90	31.7 W	65lm/W	Ø 50mm	89601316
STARK-SLE-1400-PRE-KIT	LMAI + SLE-1400 with housing	2,700K – 6,500K Tunable White	SDCM 3	1,350lm	> 90	22.2 W	61lm/W	Ø 50mm	89601317

¹⁾Tolerance range for electrical and optical data: ±10 %

Matching TALEXdriver

Type	TALEXdriver LCAU remote Order No. 86459108	TALEXdriver LCAU built-in Order No. 86459414	TALEXdriver LMAI 044/0500 (already in KIT included)
			
STARK-SLE-2000-PRE-KIT	■	■	■
STARK-SLE-1400-PRE-KIT	■	■	■

Matching connection cable

TALEXaccessory CONNECT

Type	Connection	Order No.	Length
RJ45/RJ45 1.0m	TALEXdriver LCAU to TALEXdriver LMAI	24166480	1 m
RJ45/RJ45 2.0m		24166481	2 m
10PIN PLUG/10 PIN PLUG 0.2m	TALEXdriver LMAI to TALEXmodule	24166482	0.2 m



The appropriate cap for an uniform distribution of light

TALEXaccessory LENS MIXING CAP

Type	Order No.
LED MIXING CAP STARK SLE 1500	88167564
LED MIXING CAP STARK SLE 2500	88167565



TALEXengine LLE PREMIUM



Typical applications



▼ At a glance: TALEXengine LLE PREMIUM

- Linear Tunable White system with infinitely adjustable colour temperature between 3,000K and 6,000K
- High system efficacy of up to 106lm/W (tp = 65°C)
- Sets calibrated at the factory to ensure high quality of light and colour consistency of MacAdam 4 across the entire adjustable range
- Dimming range of 100 % to 10 % without changing the colour temperature
- Low-profile LED Drivers with digital interface (DALI DT8, DSI, switchDIM, colourSWITCH) and very low standby power
- Linear LED modules with 700lm and 1,500lm
- Long lifetime of 50,000 hours
- System guarantee: 5 years
- LED modules also available individually

TALEXengine LLE PREMIUM

Type	System components	Colour-temperature	Typ. luminous flux ¹⁾	CRI	Typ. power draw ¹⁾	Module efficacy	Size per module	Order No.
STARK LLE 3x24-280-700-830-860-PRE-KIT	1 LED Driver + 3 LED modules	3,000–6,000 K Tunable White	2,000lm	> 80	20 W	up to 100lm/W	280 x 24 mm	89601896
STARK LLE 4x24-280-700-830-860-PRE-KIT	1 LED Driver + 4 LED modules	3,000–6,000 K Tunable White	2,650lm	> 80	26 W	up to 102lm/W	280 x 24 mm	89601897
STARK LLE 5x24-280-700-830-860-PRE-KIT	1 LED Driver + 5 LED modules	3,000–6,000 K Tunable White	3,350lm	> 80	32 W	up to 105lm/W	280 x 24 mm	89601898
STARK LLE 3x24-280-1500-830-860-PRE-KIT	1 LED Driver + 3 LED modules	3,000–6,000 K Tunable White	4,300lm	> 80	40 W	up to 108lm/W	280 x 24 mm	89601899
STARK LLE 4x24-280-1500-830-860-PRE-KIT	1 LED Driver + 4 LED modules	3,000–6,000 K Tunable White	5,700lm	> 80	52 W	up to 110lm/W	280 x 24 mm	89601900
STARK LLE 5x24-280-1500-830-860-PRE-KIT	1 LED Driver + 5 LED modules	3,000–6,000 K Tunable White	7,500lm	> 80	63 W	up to 114lm/W	280 x 24 mm	89601901


¹⁾Tolerance range for optical data: ±5 % and tolerance range for electrical data: ±15 %.

TALEXmodule LLE PREMIUM

Type	Mac Adam	Colour-temperature	Typ. luminous flux ¹⁾	CRI	Size	Order No.
TW LLE G1 24x280mm 700lm 827-865 PRE	SDCM 3	2,700K	645lm	> 80	280 x 24 mm	89602390
	SDCM 3	6,500K	715lm	> 80	280 x 24 mm	
TW LLE G1 24x280mm 1500lm 827-865 PRE	SDCM 3	2,700K	1,290lm	> 80	280 x 24 mm	89602391
	SDCM 3	6,500K	1,430lm	> 80	280 x 24 mm	

¹⁾Tolerance range for optical data: ±5 % and tolerance range for electrical data: ±15 %.

Matching TALEXdriver (in each KIT included)

TALEXdriver LCAI 38W TW Ip	TALEXdriver LCAI 75W TW Ip
 <p>Size: 360 x 30 x 21 mm 3–5 LLE modules à 700lm</p>	 <p>Size: 360 x 30 x 21 mm 3–5 LLE modules à 1,500lm</p>

TALEXengine QLE PREMIUM

NEW



Typical applications



▼ At a glance: TALEXengine QLE PREMIUM

- ___ Quadratic Tunable White system with adjustable colour temperature between 3,000 K and 6,000 K at constant luminous flux
- ___ High system efficiency of up to 132 lm/W (tp = 45°C)
- ___ Precalibrated set for optimum quality of light and colour consistency, consisting of an LED driver and 4–6 quadratic LED modules
- ___ LED modules are also available individually
- ___ Dimming range of 100–10 % with no change in colour temperature
- ___ Low-profile LED drivers with digital interface (DALI DT8, DSI, switchDIM, colourSWITCH)
- ___ Long lifetime of 50,000 hours with 5-year system guarantee

TALEXengine QLE PREMIUM KIT

Type	Colour-temperature	Typ. luminous flux ¹⁾	CRI	Typ. power consumption ¹⁾	Module efficacy	Size per module	Order No.
TW QLE G1 270mm 4x1250lm 830-860 PRE KIT (1 LED Driver + 4 LED module à 1.250lm)	3,000–6,000K Tunable White	5,120lm	> 80	38.7W	up to 132lm/W (System)	270 x 270 mm	89600647
TW QLE G1 270mm 5x1250lm 830-860 PRE KIT (1 LED Driver + 5 LED module à 1.250 lm)	3,000–6,000K Tunable White	6,400lm	> 80	48.5W	up to 132lm/W (System)	270 x 270 mm	89602481
TW QLE G1 270mm 6x1250lm 830-860 PRE KIT* (1 LED Driver + 6 LED module à 1.250 lm)	3,000–6,000K Tunable White	7,680lm	> 80	57.8W	up to 133lm/W (System)	270 x 270 mm	89602482
TW QLE G1 270mm 1250lm 827-865 PRE (LED module)	2,700K	1,290lm	> 80	9.1 W	up to 142lm/W (Module)	270 x 270 mm	89600648
	6,500 K	1,430lm	> 80	9.1 W	up to 156lm/W (Module)	270 x 270 mm	

¹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

System components

4–6 x TALEXmodule QLE PRE



+

TALEXdriver LCAI 75 W TW Ip



comfortDIM, Comfortable lighting for unrestricted freedom

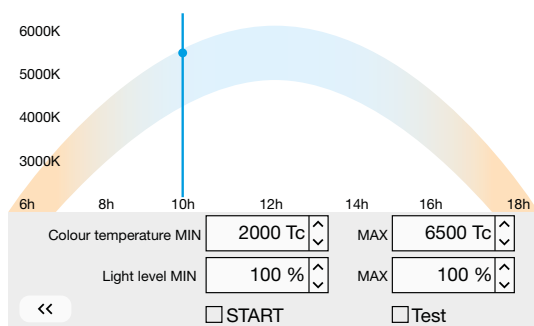
With the comfortDIM light management system from Tridonic you have unlimited control of your Tunable White lighting solution. comfortDIM is based on two principles: comfort and independence: Your projects benefit from simplicity and maximum flexibility. At start-up and beyond.

DALI x/e-touchPANEL 02

Touch panel



With the DALI x/e-touchPANEL 02 you can program lighting scenes and RGB colour mixes and call them up them via the graphical user interface as well. The panel also includes a sequencer which is used to automate calendar-controlled se-quences.



The daylight sequence enables the colour temperature of the light to change throughout the course of the day.

DALI TOUCHPANEL 02

Touch panel



Setting up and operating DALI systems – Tridonic touch panels enable you to accomplish this conveniently via a graphical user interface. DALI TOUCHPANEL 02 has a keypad with user-selectable key functions for manually controlling lighting groups and lighting scenes. It is programmed by using masterCONFIGURATOR software, which is available free of charge.

DALI XC

comfortDIM momentary-action switch module



Conventional momentary-action switches can be connected quickly and easily to the comfortDIM XC module. This gives you the opportunity to custom design your lighting. These momentary-action switch modules are used to group luminaires together, define scenes and program macros. Tunable White also allows colour temperature variations.

Support and advice from a single source

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to the slogan: We devote all our energy to your light.



TALEXengine DLE



TALEXengine CLE



TALEXengine CLE Integrated



TALEXengine LLE-FLEX



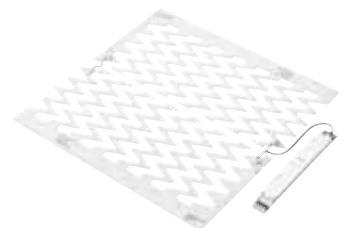
TALEXengine SLE



TALEXengine FLE



TALEXengine LLE



TALEXengine QLE

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



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Light you want to follow.

