

Edition: 2021-09-01

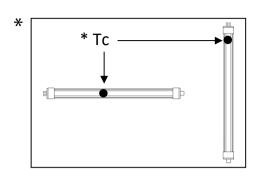


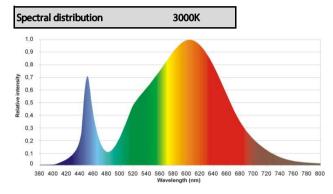
Aura UltiLED Long Life

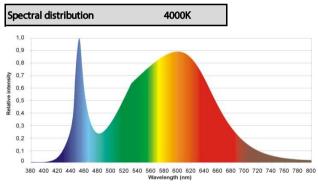
			Aura UltiLED Long Life									<u>Life</u>	
		Nominal wattage (W)	8			17				23			
		Nominal length (mm)	549			1149				1449			
		Diameter (mm)	16			16				16			
		Weight (g)	120			250				315			
		Colour Rendering Index CRI	≥80			≥80				≥80			
SDCM			3			3				3			
Light Colour			830	840			830	840		830	840		
Correlated Colour Temperature CCT			3000	4000			3000	4000		3000	4000		
Nominal and rated flux ¹⁾ @ 25 °C (lm)			1040	1100			2080	2220		2800	3000		
		8% tolerance) Lamp efficacy ¹⁾ @ 25 °C (lm/W)	130	138			122	131		122	130		
		Energy Class	E	E			E	E E		E	E		
		kW/1000 hrs											
		Rated Wattage (W)	8,8	8,8			18,7	18,7		25,3 2	25,3 3		
		Power Factor (Pf)	8 17 23 >0,9 (in combination with approved driver)										
ıta	t	Operating Voltage (V)	24 (23,	2-26,4)		,,, (,,,, co.,	24 (23,2-26,4)			33 (31,9-36,3)			
Electrical Data	Input	Operating Current (mA)		350 (500 max)			700 (1050 max)			700 (1050 max)			
ctric		Operating Current (IIIA)	330 (300 IIIax)			700 (1030 max)				7 00 (1030 IIIax)			
Ele	Output												
	Out												
		Nominal lifetime	58 000										
		Rated lifetime	58 000										
10	3	LLMF - Lamp Lumen Maintenance											
A 17	5 E	Factor end of nominal life	80%										
LLMF & LSF		LSF - Lamp Survival Factor end of nominal life	90%										
		Installation environment	Indoor and outdoor										
		Ingress Protection	IP65										
		Warm-up time to 60% light output	Instant full light										
		Starting time	0,5 seconds (max) will depend on driver used										
		Max Tc *	+75 °C										
		Ambient temperature (Ta)	-30 °C - +50 °C										
		Nominal beam angle	120°										
		Rated beam angle	120°										
		Suitable for accent lighting	No										
		Switching cycles	1 500 000 (min)										
		Dimmable	Yes (depends on driver used)										
		Сар	G5										
		Tube and cap material		Glass and PC, FEP foil									
		Mercury Content	0										
		Notice	When repl	When replacing flourescent lighting, light distribution and overall energy efficiency will be determined by the design of the installation									

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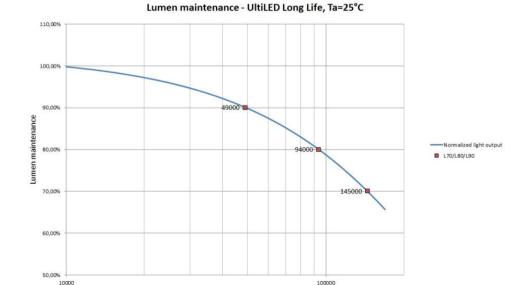








Calculated LED Lifetime h (TM-21)	L70	L80	L90
	145 000	94 000	49 000



Burning hours

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Installation guide – UltiLED

This guide explains the steps necessary to install UltiLED inside a luminaire and ensure optimal performance. The guide is only for reference and is intended for qualified electricians or lighting technicians.

Installation 6 steps:

- 1) Make sure that the right type of driver is within the luminaire. (A SELV driver is recommended. Should a non-SELV driver be used that still meets the requirements of the tube, power to the luminaire should be disconnected prior to installing or changing the UltiLED tube if the UoutMax (no load voltage) is equal to or greater than 400V.)
 - a) 8W tube needs 350mA and 24VDC
 - b) 17W tube needs 700mA and 24VDC
 - c) 23W tube needs 700mA and 33VDC
- 2) Unpack the UltiLED tube.
- a) Carefully examine the product
- b) Do not use the product if it's damaged
- 3) Make sure that the active side (metal pin side) is connected to the active side within the luminaire.

 See picture below.

a)The UltiLED tube is bipolar so the LED+ and LED- side doesn't matter.

UltiLED is not a retrofit LED lamp for T8 or T5 replacement application. An external LED driver complying for European safety & performance norms should be used. All light fitting manufacturers should conform to the international standards IEC 60598-luminaires

LED
Circuit diagram

LED
UltiLED

- 4) Make sure that the UltiLED is turned into the luminaire so that the light output is directed the desired way.
- 5) Reconnect power to the luminaire and turn it on.

Additional information

- because of external power supply, tubes can only be used in therefore suitable luminaires.
- installation instructions and warnings are provided with the products
- to avoid dangerous situation for end user, the tube is double/re-inforced insulated from live parts.
- LED tube is recommended to be used with certified SELV LED driver

Limitation of use

Due to dimension of the and cap, the LED tubes can only be used with lampholders which are provided with rotor in the middle.