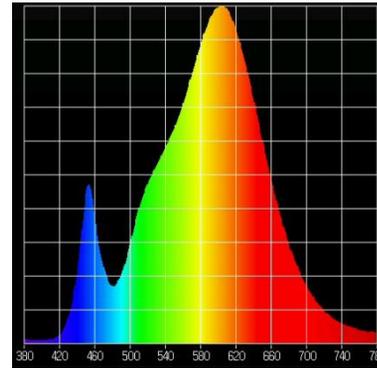


**Aura UltiLED PRO Long Life (G3)**

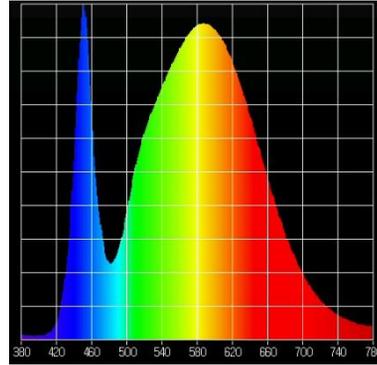
Nominal wattage (W)	16			26			32					
Nominal length (mm)	849			1149			1449					
Diameter (mm)	16			16			16					
Weight (g)	165			225			290					
Colour Rendering Index CRI	≥80			≥80			≥80					
SDCM	3			3			3					
Light Colour		830	840	850		830	840	850		830	840	850
Correlated Colour Temperature CCT		3000	4000	5000		3000	4000	5000		3000	4000	5000
Nominal and rated flux <sup>1)</sup> @ 25 °C (lm) (+/- 8% tolerance)		2100	2200	2300		3600	3800	3950		4500	4750	4900
Lamp efficacy <sup>1)</sup> @ 25 °C (lm/W)		131,3	137,5	143,8		138,5	146	152		140,6	148,4	153,1
Energy Class		A+	A++	A++		A++	A++	A++		A++	A++	A++
System power with driver, 90% eff.		17,78	17,78	17,78		28,89	28,89	28,89		35,56	35,56	35,56

Electrical Data	Input	Rated Wattage (W)	16			26			32			
		Power Factor (Pf)	>0,9 (in combination with approved driver)									
	Operating Voltage (V)	22,0 ( 20,7 - 23,4 )			36,1 ( 34,5 - 39,1 )			44,5 ( 42,8 - 48,6 )				
	Operating Current (mA)	700			700			700				
Output												
LLMF & LSF	Nominal lifetime	58 000										
	Rated lifetime	58 000										
	LLMF - Lamp Lumen Maintenance Factor end of nominal life	80%										
	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 to +55°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)										
	Cap	G5										
	Tube and cap material	Glass and PC										
	Mercury Content	0										
	Notice	When replacing flourescent lighting, light distribution and overall energy efficiency will be determined by the design of the installation										

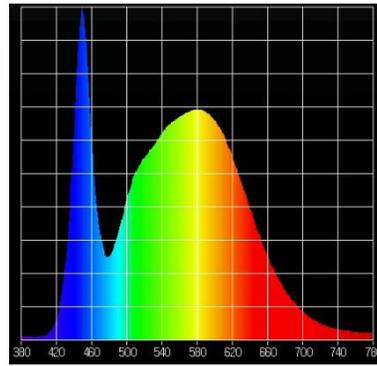
Spectral distribution 3000K



Spectral distribution 4000K

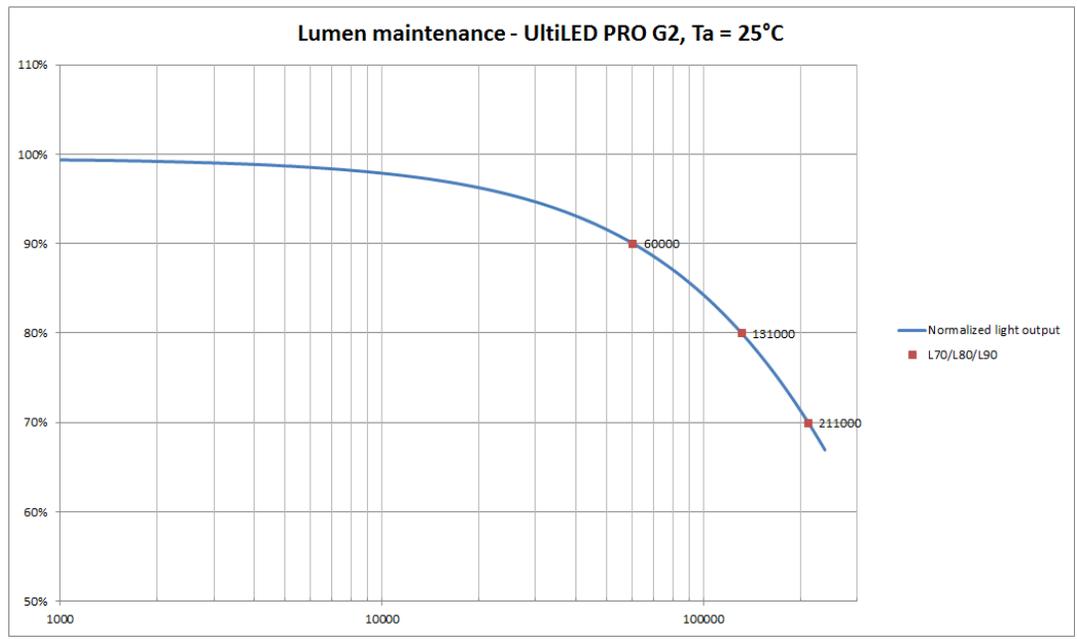


Spectral distribution 5000K



Calculated LED Lifetime h (TM-21)

L70	L80	L90
211 000	131 000	60 000



**Installation guide – UltiLED PRO**

This guide explains the steps necessary to install UltiLED PRO 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) 18W tube needs 700mA and 26,1VDC
- b) 28W tube needs 700mA and 40,6VDC
- c) 34W tube needs 700mA and 49,3VDC

2) Unpack the UltiLED PRO tube.

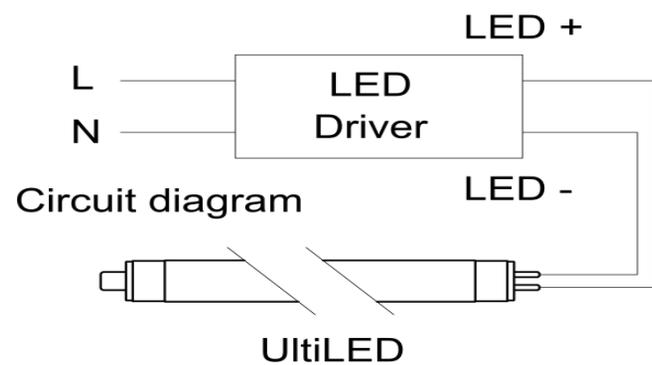
- a) Carefully examine the product
- b) Do not use the product if it's damaged

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 PRO tube is bipolar so the LED+ and LED- side doesn't matter.

UltiLED PRO 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



4) Make sure that the UltiLED PRO 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.