



# ***SIGNETTE LONG LIFE***

***Guaranteed up to 45,000 Hours***

The Aura Signette LL is a T8 26mm diameter long life fluorescent lamp contained in a T12 38mm diameter outer glass tube which gives three times longer service life than a standard lamp. Inside the outer tube are specially designed integrated layers to give better bi directional light uniformity.

Two versions are available:

- Signette LL D = Two layers opposite of each 80°.  
Type A = layers horizontal to the socket pins.  
Type B = layers vertical to the socket pins (see graph 1)
- Signette LL S = One layer of 100° horizontal to the socket pins (see graph 2).

Signette LL provides a diffused light distribution in the requested direction, see graph 3.

Based on Luminette LL, Signette LL is available in high colour rendering triphosphor colours (Ra 85).

The basic 26mm diameter fluorescent lamp Luminette LL Signette LL comprises our two special patents for the unique cathode construction and the inside protection layer.

The design, together with strict quality controls during the high precision manufacturing process, provides a fluorescent lamp for illuminating advertising signs giving outstanding performance.

For use in low ambient temperatures the outer glass tube also provides the advantages of the Thermo LL giving a higher lumen output compared to standard fluorescent lamps.

Operation is possible with conventional or low loss ballast and starter or electronic HF ballast.

## **Long Life Lights**

The Long Life Lights concept comprises light sources with extra long service life. The concept is the result of innovative product development and rigorous quality control. For our customers, the unique service life means that light sources do not need to be changed so often, which reduces their maintenance costs. The products in the concept are therefore an investment for our customers and for the environment. Products such as fluorescent tubes and light bulbs are developed, manufactured and sold within the framework of the Long Life Lights concept.



*The Greenstock Lamp Company*



Newport Business Park Cardinal Close Bishops Road Lincoln LN2 4SY

Tel: 01522 522522 Fax: 01522 523522 E Mail: sales@greenstock.co.uk Web Site: www.greenstock.co.uk

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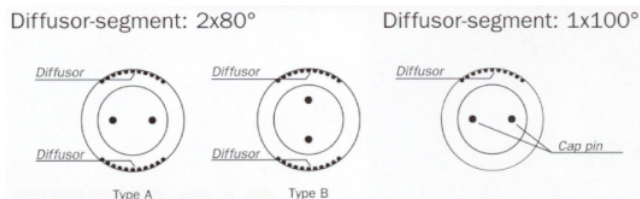
## Applications

Signette LL D is developed for use in double sided sign boards. The diffused light distribution optimises the overall image and the intensity of the lamp is very low. With Signette LL S the same effect is achieved in single sided signs.

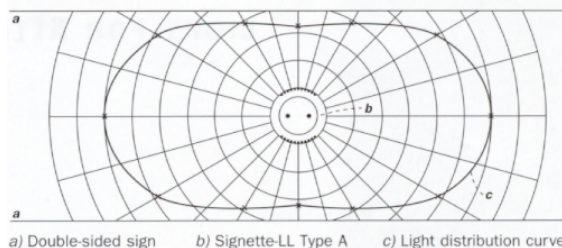
## Lifetime

The service life of Signette LL high colour rendering triphosphor range Ra 85 is 36,000 hours for 18W, 36W and 58W. The service life is reached when the amount of light in an installation falls to 70% of the initial 100 hour value.

The service life of the lamp failure rate and the lumen depreciation are calculated according to IEC/EN 60081, which is based on a three hour operation switching cycle. When operated by electronic ballast (warm start) the service life for these triphosphor lamps is extended to 45,000 hours.



Light distribution effect of Signette-LL-D in a double sided sign



## Long Life Guarantee

The Aura long life fluorescent lamps are manufactured in accordance with IEC/EN 60081. For economical reasons Greenstock recommends group replacement of fluorescent lamps.

With group replacement Aura guarantees the following service life:

<b>Signette LL:</b>	
<b>Luminette 18W, 36W 58W:</b>	<b>36,000 Hours</b>
<b>Luminette Daylight 18W, 36W, 58W</b>	<b>25,000 Hours</b>

## PRODUCT INFORMATION

Cap: G13 Type	Colour	Colour Temp (K)	Luminous Flux (lm/100h)*	Luminous Efficacy (lm/W)	Diameter (mm)	Length without Pins (mm)	Packing Unit (pcs)	Lifetime (hrs)	Art No	Colour Rendering Ra
<b>Signette LL D</b>										
18W/865 A	Daylight	6500	1150	64	38	590	25	25,000	45 1941	80
30W/865 A	Daylight	6500	2250	75	38	895	25	20,000	45 1942	80
36W/845 A	White Plus	4500	3050	85	38	1200	25	36,000	45 2664	85
36W/845 B	White Plus	4500	3050	85	38	1200	25	36,000	45 2674	85
36W/865 A	Daylight	6500	3050	85	38	1200	25	25,000	45 1943	80
36W/865 B	Daylight	6500	3050	85	38	1200	25	25,000	45 1953	80
58W/845 A	White Plus	4500	4700	81	38	1500	25	36,000	45 2665	85
58W/845 B	White Plus	4500	4700	81	38	1500	25	36,000	45 2675	85
58W/865 A	Daylight	6500	4700	81	38	1500	25	25,000	45 1944	80
58W/865 B	Daylight	6500	4700	81	38	1500	25	25,000	45 1954	80
<b>Signette LL S</b>										
18W/865 A	Daylight	6500	1175	65	38	590	25	25,000	45 2296	85
36W/865 A	Daylight	6500	3050	85	38	1200	25	25,000	45 2298	85
58W/865 A	Daylight	6500	4700	81	38	1500	25	25,000	45 2299	85

\*At Ambient Temperature (Ta)

18W	+15°C
36W	+10°C
58W	+5°C



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