

Technical Data Sheet

LIGHTTECH MEDSUN THERAPY NARROW BAND UVB 80W 1,2M

Art. Nr.: N/A

Main application:

Medical (UVB phototherapy)

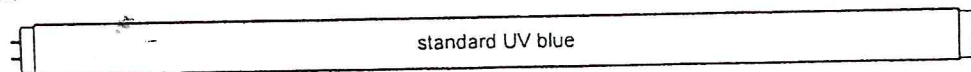
Dimensions

Lamp Length Nominal	1200 mm
Base Face to Base Face (max.)	1199,4 mm
Base Face to Pin (max.)	1206,5 mm
Diameter	38 mm
Base	G13 Bi-Pin
Reflector angle	0 °

Electrical Data (nominal values)¹⁾

Lamp Wattage	80 W
Lamp Current	0,9 A
Lamp Voltage	85 V
Compensation	8 µF
Recommended Ballast	80 W
Recommended Starter	according to EN 60155

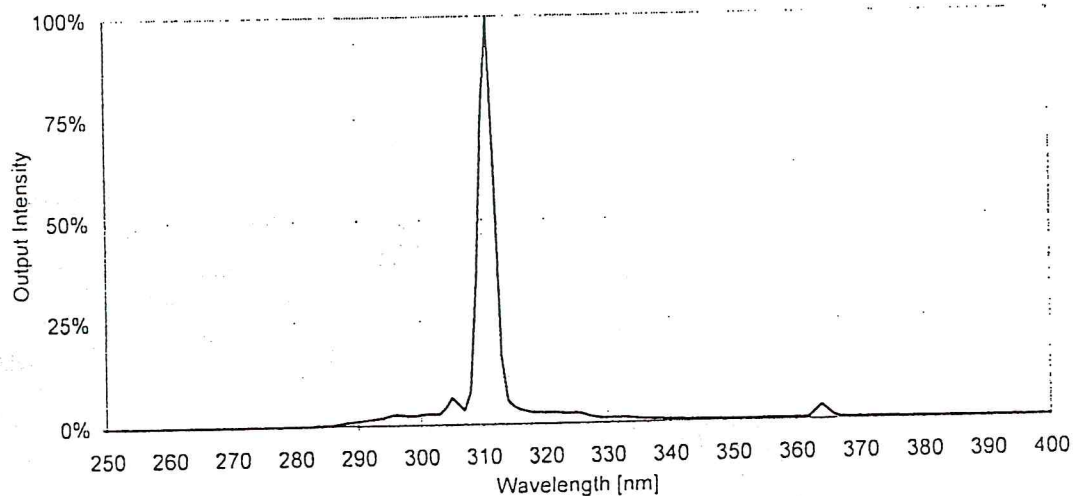
Lamp color:



Physical Data (nominal values)¹⁾

UVB Radiant Flux	7 W
$E_{er}(250-400 \text{ nm})$	650 mW/m ²
NMSC Ratio ($\leq 320 \text{ nm}$ / $> 320 \text{ nm}$)	550
Useful Life (recommended)	650 h

Relative Spectral Radiant Flux



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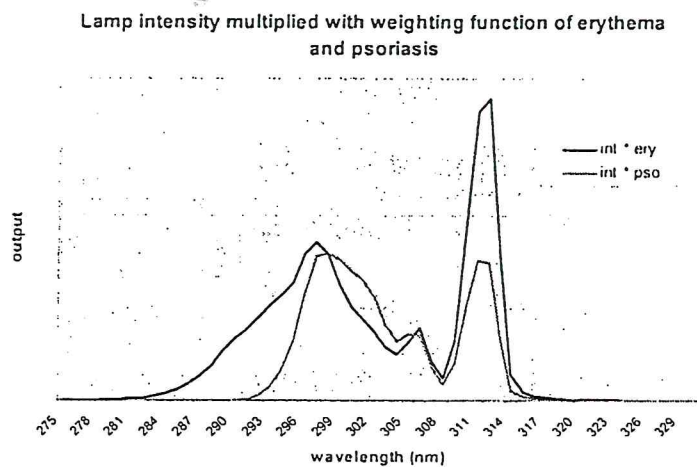
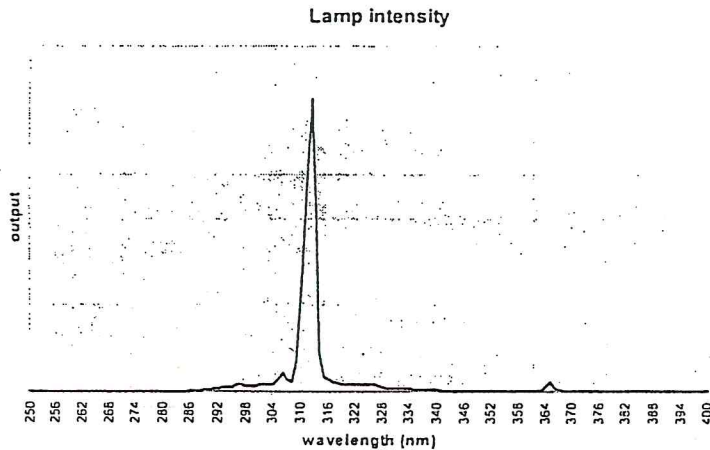
1) Single lamp, aged for 5h
Measuring distance: 0.25m
Under conditions of optimum UV irradiance

DANGER - UV radiation! Only for medical use! The lamp must be used under the supervision of a dermatologist.
The UV hazard exposure limits must be determined according to IEC 62471
Subject to modification.



Technical Bulletin to Lighttech MedSun Therapy Narrow Band UVB Lamps

Lamp Characteristic



Lamp spectra has to be examined above and under 298 nm to give answer for psoriasis efficiency and undesirable erythema influence.

Above 298nm: Narrow Band UVB lamp shows a peak at 313nm. This large peak of spectra gives an acceptable efficiency of therapy in spite of psoriasis effect curve is low in this field.

Under 298nm: UV intensity of the lamp is approximately negligible, but psoriasis effect strongly increases from 290 nm to 298 nm. So we get significant psoriasis efficiency at 298nm, where unfortunately erythema effect already is on maximum.

Since this critical area (290-298nm) of lamp spectrum is in maximum erythema field these lamps used only with medical supervision.

The noticeable color in the visible range does not affect the healing effect of lamp.

Lighttech Lamp Technology Ltd.
2011.11.10.





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The psoriasis could be treated by Narrow Band UVB lamps. The phototherapy treatment has to be carried out by a dermatologist, who has to determine the accurate dosage. Please carefully consider the following technical characteristics.

Human Effects

The aim of Narrow Band UVB lamps to reach maximal efficiency of psoriasis therapy and minimize erythema effect.

It appeared that psoriasis effect is peaked at 298 nm, but there erythema curve is on maximum yet. The optimum interval of spectra takes from 299 to 305 nm, where psoriasis curve is above erythema.

Weighting function of erythema and psoriasis

