

LIQUID LIGHTGUIDES

A TECHNOLOGICAL
BREAKTHROUGH IN
LIGHT TRANSMISSION

LUMATEC



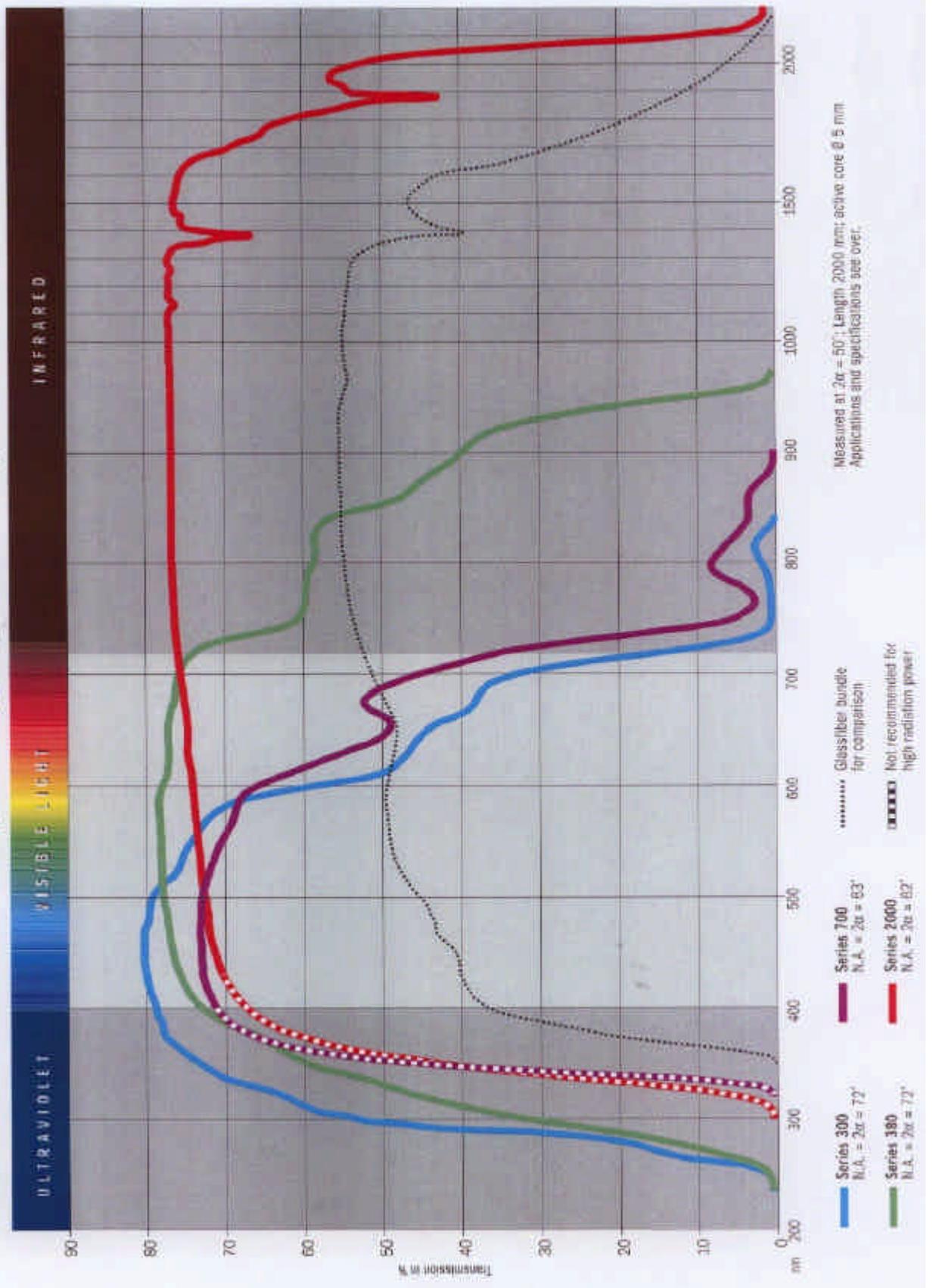
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LUMATEC Liquid Lightguides Spectral Characteristics



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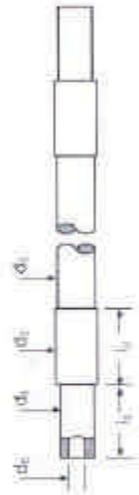
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LUMATEC Liquid Lightguides



Series	Standard Core Diameters	NA	Applications and	Specific Properties
300	2, 3, 5, 8 mm	72°	UV epoxy curing and UV fluorescence inspection at lengths of up to 20m (60 ft). 300nm - 650nm	Superior transmission of up to 5W of UV radiation. Suitable for very rugged environments. Recommended light sources: mercury and xenon short arc, tungsten halogen. Temperature range (long term): -5°C to +85°C
380	2, 3, 5, 8 mm	72°	Outstanding white light illumination at lengths of up to 30m (100ft). 340nm - 800nm	Excellent transmission from the near UV to the far red even at a length of 30m. Suitable for very rugged environments. Recommended light sources: tungsten halogen, xenon, metal halide. Temperature range (long term): -5°C to +55°C
700	5, 8 mm	63°	White light for medical endoscopy, blue light for dental curing. Lengths up to 10m (33ft). 400nm - 700nm	Enhanced flexibility. ETO sterilizable. Adaptors available for all medical light sources and endoscopes. Recommended light sources: tungsten halogen, xenon, metal halide. Temperature range (long term): 0°C to +35°C
2000	2, 3, 5, 8 mm	62°	Visible and near infrared illumination. Lengths up to 10m (33ft). 420nm - 2000nm	Transmission of high power near infrared radiation in the multi watt range. Protection required from high power radiation below 420nm (integrated dichroic longpass filter available). Recommended light sources: xenon or tungsten halogen lamps, Nd:YAG or diode lasers. Temperature range (long term): -5°C to 35°C

Many other end fittings, a variety of claddings, and custom designs are available on request. Detailed leaflets are available for every series.



Dimensions of Standard End Fittings (mm)

Active Core Ø	Standard End Fittings	Protective Sleeve	Minimum Bending Radius
d ₀	d ₁ l ₁ d ₂ l ₂ d ₃ l ₃ d ₄ l ₄ d ₅ l ₅		
2	4 6.7 8 20	5.5	30
3	5 20 8 24	7	40
5	7 20 10 24	9.5	60
8	10 20 15 40	12.5	100

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