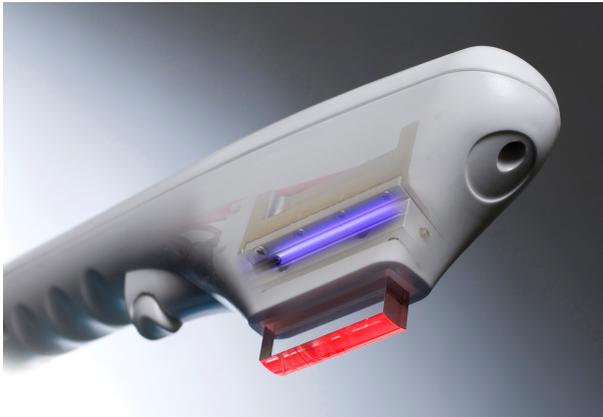


Data Sheet

Lamps for IPL and Cosmetic Applications

High intensity pulsed light for hair removal and cosmetic skin treatment has become the preferred solution for beauticians and medical users worldwide. We have responded to these special requirements, by producing a range of high-quality lamps ideally suited to this rigorous application. Heraeus lamps provide reliable trigger, flash to flash repeatability with constant spectral output from pulse to pulse along with high efficiency and long lifetimes. Heraeus IPL lamps can be manufactured with electrodes suited for stable simmer operation. Heraeus work closely with our customers, extensive internal research facilities and external institutes to provide the industry with quality products. This data sheet is intended to provide some typical examples of common lamps manufactured and readily available. Since lifetime and efficiency is system and operation dependant we welcome enquiries on special designs. Please feel free to contact us at the address below for more information.



Key features of Heraeus IPL lamps:

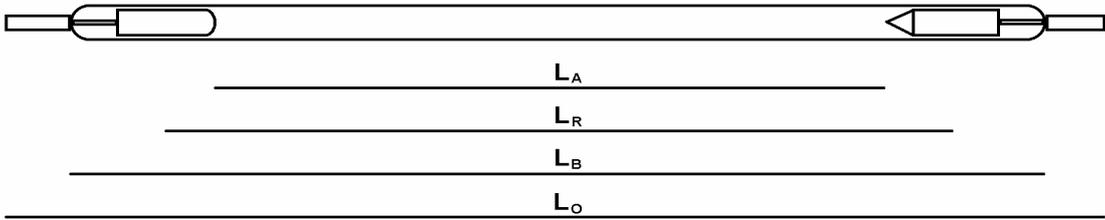
- Flash to flash reliability
- Constant spectral output
- Long lifetime
- Quality raw materials and inspection
- High standards of manufacturing and traceability
- Consistent build quality
- Variety of lamp connections available
- All lamps tested to specification
- Large manufacturing capacity
- Superb customer support
- Excellent technical knowledge
- Highly skilled workforce

Technical data (for 1Hz, 1ms pulse)

Lamp Type	NL7081	P2600	NL7082	NL7109	NL7111	P2812	NL7120	NL7105	NL9860	NL7089	P2980
Bore (mm)	4	4	5	5	5	5	5	5	6	6	6
Arc Length (mm)	50	50	20	50	50	70	76	96	36	50	100
Overall Length (mm)	98	140	128.5	98	118*	159*	162*	175*	111*	115	184
Connector dims (mm)	4.75/7.0	4.75/13.0	special	4.75/13.0	wires	wires	wires	wires	wires	4.75/11.0	5.0/10.0
K0 (approx)	16	16	6.5	12.8	13	18	24	27	9.5	10	22
Maximum average power (watts)	1250	1250	600	1500	1300	2200	2000	3000	1350	1800	5000
Envelope Material	CFQ	CFQ	CDQ	CFQ	CDQ	CDQ	CDQ	CDQ	CDQ	CFQ	CDQ

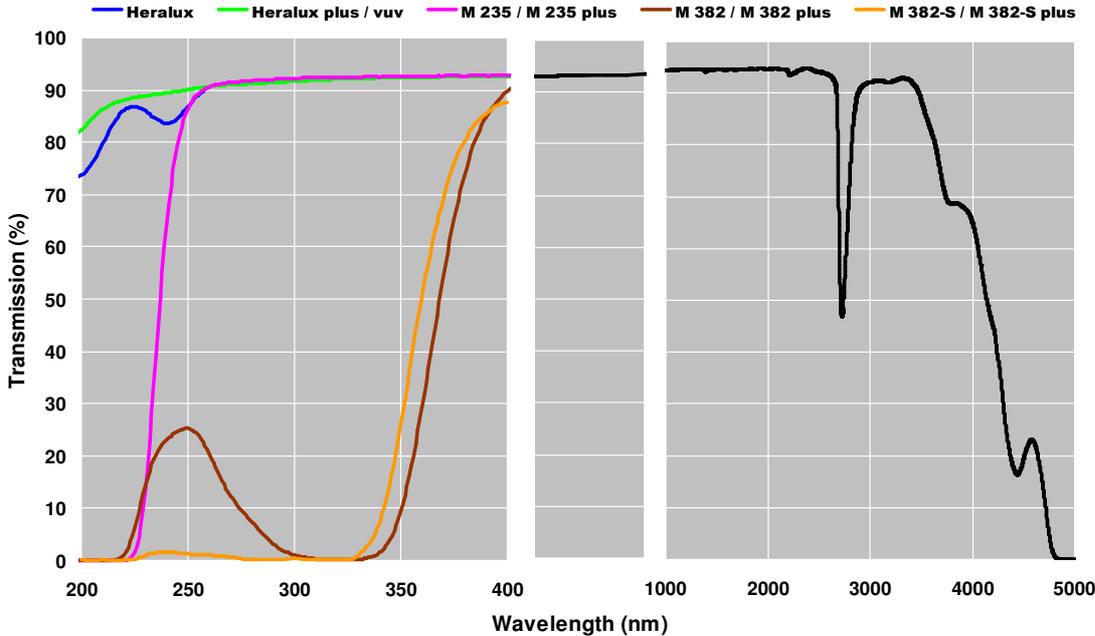
* maximum non-flex

Typical lamp designs – schematic drawing

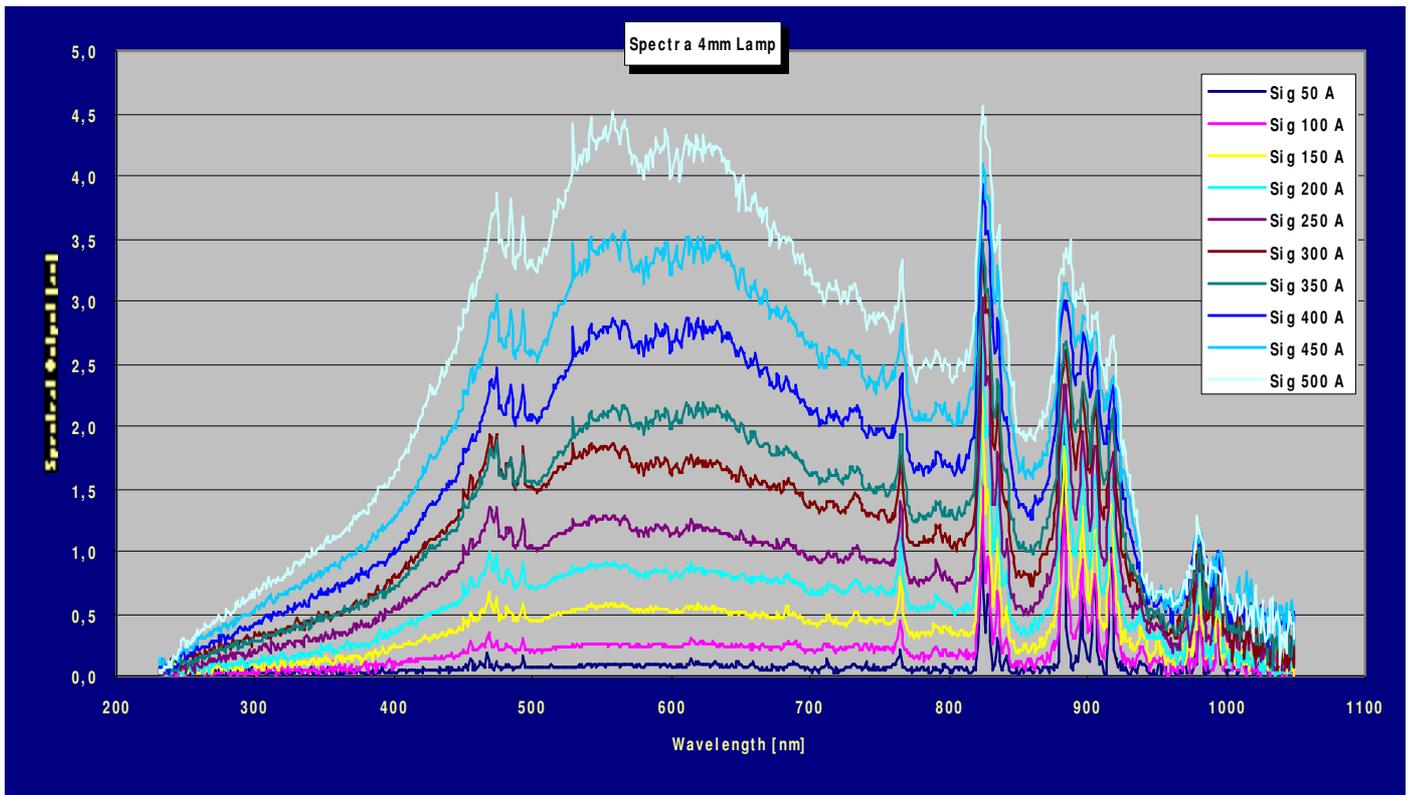


- L_A = Arc Length
- L_O = Overall Length
- Max OD = maximum lamp outer diameter
- Flying Leads = length, wire gauge and insulation type
- Operating specification = voltage range at operating current, maximum average power
- Air or water cooled
- L_R = O-ring centres
- I.D. = Lamp bore
- Connector = diameter, length and material
- L_B = Body length
- O.D. = outer diameter

Optical Transmission of Envelope Materials



Typical Spectral Output of a 4mm bore lamp, 5ms pulse at different currents



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