

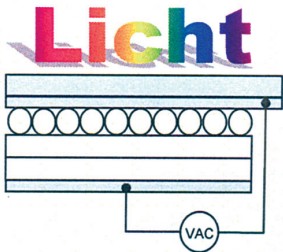
ELECTROLUMINESCENCE TECHNOLOGY

The data below are the result of several years experience of development and production at Elumic. We have developed and built more than 200 different products for the automotive industry, elevators, white goods, military.... Elumic is presently engaging in other market areas including mobile phone markets. This information provides the potential user with general details concerning this technology. Figures given are typical values.



EL-LAMPS

- HB** HighBrightness
- LL** Longlife-LowConsumption

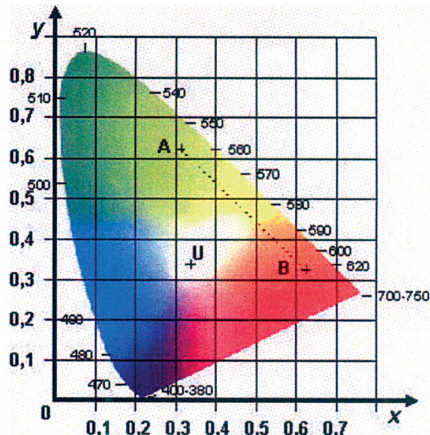


- > flat and flexible lamps from 0,15 mm thickness
- > minimum weight of 0,6 g / cm²
- > extreme robustness with high scratch resistance
- > imperceptible heat emission
- > climatically stable over ambient temperature of - 40° to + 90° C up to 95% RH
- > no sudden death is possible
- > low current consumption **HB** 0,13 mA/cm², **LL** 60 µA/cm² (80V_{rms} 400 Hz)
- > low power input **HB** 2 mW/cm², **LL** 0,7 mW/cm² (80V_{rms} 400 Hz)
- > monochrome light, glare free, adjustable illumination
- >>> all colours possible
- > EM spec. compatible according to Renault/PSA Norm CISPR 25
- > physical flexibility allows access to locations difficult to access
- > low tooling costs for custom designs



INVERTER

- exact Sinus, low distortion factor
- > EM spec. meets automotive standard
- > compensation of voltage with lamp datas
- > aging and temperature compensation
- > inexpensive
- > custom designs and development support are possible



GENERAL INFORMATION

EL Input voltage	50 – 230 V _{RMS}	operating temperature	- 20°C bis + 85°C
EL Operating frequenc	50 – 3000 Hz	storage temperature	- 40°C bis + 90°C
Inverter Input voltage	3 – 24 V _{DC}	maximum size	900 x 480 mm
EL dielectric strength	> 350V _{RMS} bei 50 Hz	minimum radius	5 mm

BRIGHTNESS and LIFETIME

110V _{RMS} 400Hz		brightness (cd/m ²)		lifetime (h) up to 50% light reduction		CLIMATIC RESISTANCE e.g. blue/green continuous use with Elumic Inverter	
		HighBrite	Longlife	HighBrite	Longlife	Appl. temp. condition	hours to 50% light reduction
Nominal Values	± 0,02						
orange	x= 0,54 y=0,46	35	25	1000	2500	25°/40%	7500
blue/green	x= 0,18 y=0,41	120	65	1100	3000	25°/95%	5500
green	x= 0,18 y=0,48	140	75	1500	3500	65°/40%	1400
blue	x= 0,16 y=0,20	65	40	600	1200	65°/95%	800
white/pink	x= 0,33 y=0,38	110	60	1100	3000	85°/40%	600
white/white	x= 0,32 y=0,35	40	25	900	2300		