

Oslo,  
Norway

Istanbul,  
Türkey

Mumbai,  
India

**novarius**

NOVARIUS electronic ballasts with geoDIM-Technology

## ● Nighttime varies Lighting adapts

Street lighting is becoming more efficient, more intelligent. NOVARIUS electronic ballasts for high-intensity discharge lamps optimise outdoor lighting with three dim methods, including the world's first geoDIM technology. It responds automatically to the local Nighttime cycles, dimming up and down intelligently. From Mumbai to Oslo, this application can help save many tons of CO<sub>2</sub>. And costs.

Night after night after night.

Be inspired: [www.BAGelectronics.com](http://www.BAGelectronics.com)



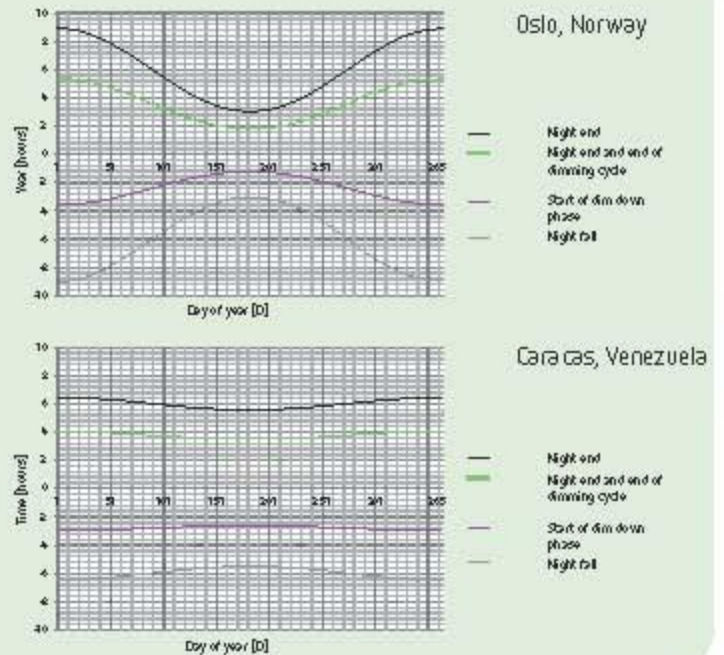


## geoDIM Technology

The patent-pending geoDIM technology is standard in all NOVARIUS ballasts for outdoor lighting and adapts its dim behaviour to actual, local and real-time night cycles automatically. In this way, it responds to regional and seasonal variations in Nighttime lengths. It works reliably in all degree of latitudes from the equator to the 65. parallel near the arctic circle. The system calculates the real night length depending on region and season, based on the local switch on/off patterns of several nights. The calculated real Nighttime is the basis for an energy optimised dimming curve that is set without programming, providing

- 100% light output for the first 30% of the night
- 50% light output for the next 50% of the night
- 100% light output for 20% of the ending night cycle.

Varying Nighttime cycles in the course of an average year



## ECG with geoDIM technology for high-intensity discharge lamps

NOVARIUS, the new range of dimmable electronic control gear for high-intensity discharge lamps is setting the pace for energy efficiency in outdoor luminaires.

Developed with a focus on the future with high-intensity discharge lamps in street lighting, NOVARIUS control gear outperform energy efficiency of today's installations significantly. The new technology helps to save energy and costs by reducing lighting output without compromising safety: an intelligent, automatic and responsive dimming technology dims down when less light is needed and lights up when it's dark. NOVARIUS offers three dimming methods:

- control phase
- DALI
- geoDIM technology

geoDIM technology automatically reacts to the actual local Nighttime cycle and requires no additional cables. This is another cost saving factor, especially when refitting existing luminaires. At the same time, geoDIM increases the service life of the lamp, further reducing costs of maintenance. Further features are:

- long service life of 100 000 h at  $t_c = t_{cmax}$
- protection against transient overvoltage up to 10kV



Energy and cost saving, safe and intelligent: NOVARIUS electronic control gear operate all HS-lamps and ceramic metal halide lamps for outdoor luminaires and offer three dim methods for optimum safety and comfort.



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# POWER TUNING

75 Saqr Qurish  
 Sheraton Heliopolis  
 Cairo - Egypt  
 TEL.: (+202) 22 672 075  
 FAX: (+202) 22 681 807  
 pte@powertuningegypt.com