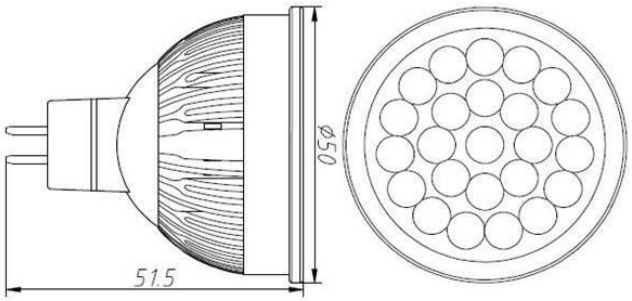
# SINGLECAPPED LED LAMPS FOR EXTRA LOW VOLTAGE

## HIGH POWER LED MR16 6W

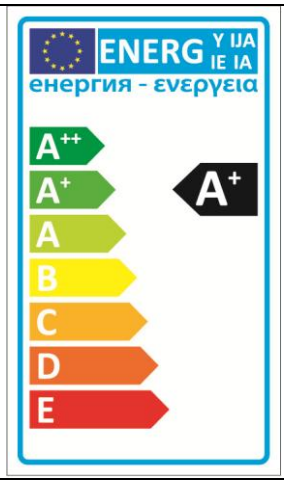
TURBINE STAR POLILED




CE

RoHS

ECODESIGN product Dir. 2009/125




*External Length = 54 $^{\pm 2}$mm; External Diameter = 50 $^{\pm 1}$mm*

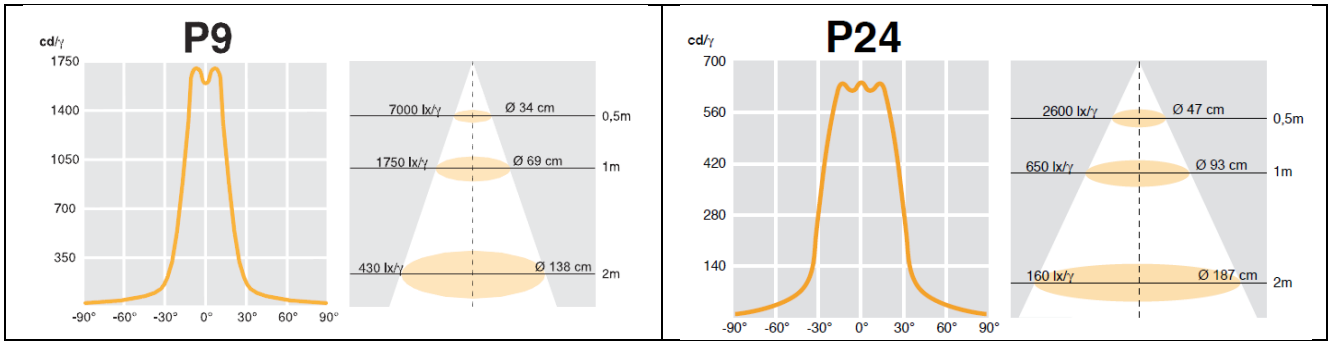
| Item code | $P_{nom}$ (W) | $T_c$ (K) | Cap | I (mA) (*) | Useful Flux (lm) | Equivalent hal MR16 power (W) | Energy Class | Ec (kWh/1000h) | Axis cd | Beam Opening | Photometrics | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLL844FA6 | 6 | 3000 | GU5.3 | ~420mA 12VDC | 500 | 44 | A+ | 7 | 1000 | 2x19° | P9; γ=0.57 | 52 |
| FLL844FD6 | 6 | 5000 | GU5.3 | ~420mA 12VDC | 520 | 45 | A+ | 7 | 1050 | 2x19° | P9; γ=0.6 | 52 |
| FLL844FE6 | 6 | 6500 | GU5.3 | ~420mA 12VDC | 530 | 46 | A+ | 7 | 1100 | 2x19° | P9; γ=0.63 | 52 |
| FLL844FA8 | 6 | 3000 | GU5.3 | ~420mA 12VDC | 500 | 44 | A+ | 7 | 640 | 2x25° | P24; γ=1.01 | 52 |
| FLL844FD8 | 6 | 5000 | GU5.3 | ~420mA 12VDC | 520 | 45 | A+ | 7 | 690 | 2x25° | P24; γ=1.09 | 52 |
| FLL844FE8 | 6 | 6500 | GU5.3 | ~420mA 12VDC | 530 | 46 | A+ | 7 | 710 | 2x25° | P24; γ=1.13 | 52 |

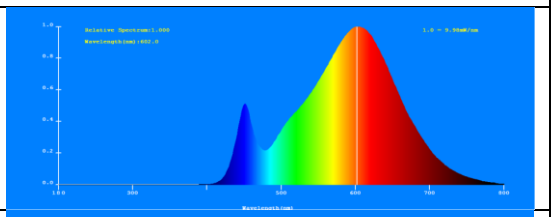
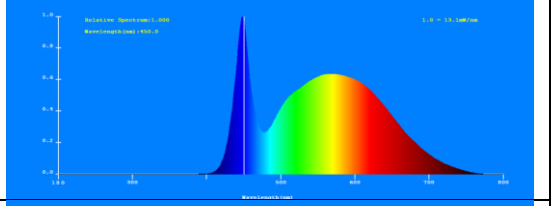
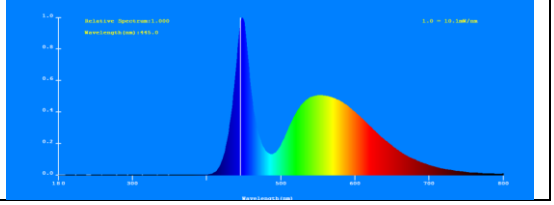
*LED lamp classified EXEMPT (RISK GROUP 0) in application of the EN 62471: 2008 (CIE S009:2002) standards "Photobiological safety of lamps and lamp systems" and in application of the European Directive 2006/25 on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).*

| | |
|---|---|
| Operating electric conditions | 12Vac 50/60Hz (*); 12VDC |
| Not Adjustable | |
| Average lifetime L70, F50 (**) | 35.000 hours |
| Lamp Survival Factor @6000h | 0.90 |
| Lamp Lumen Maintenance Factor @6000h | 0.80 |
| Lamp Lumen Maintenance Factor @35.000h | 70% (L70) |
| Starting time | 0.4s |
| Number of switching cycles before failure | > 15.000 |
| Warm-up time (to 95% of the steady-state luminous output) | < 2.0s |
| Failure rate @1000h | < 5.0% |
| Colour consistency | MacAdam ellipses step ≤ 6 |
| Mercury and dangerous substances | Absent |
| UV and IR radiation | Absent |

*(*) This LED lamp can directly substitute a halogen lamp for ELV if used with any kind of electromagnetic transformer and the optimal reliability is achieved if the user respects the suggested minimum load power of the ELV transformer. The lamp is also suitable for LED electronic drivers only (adequate constant current or constant voltage AC/DC converters for LEDs); its correct functioning is not guaranteed for electronic transformers for filament lamps.*

*(**) After 35.000 hours, the 50% of the samples under lifetime test has failed in normal condition of use and the average axis candles value is the 70% of the initial value.*




| Spectral Power Distribution 180-800nm | |
|---|---|
| 3000K |  |
| 5000K |  |
| 6500K |  |

Reference Standards: IEC doc 34A/1352/NP; IEC doc 34A/1353/NP; IEC 62471; IEC/TR 62471-2; CEI EN 50285; EN55015; EN61000-3-3; EN61547
European Directives: 2004/108; 92/31; 93/68; 2010/30; 2011/65; 2012/19; 2009/125 (Reg.no.1194/2012)

**Correct disposal of this product**
(Waste Electrical & Electronic Equipment)
Applicable in countries with separate collection systems

This graphic symbol placed on the product and on the package indicates that the product should not be disposed with other household waste.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and responsibly recycle them to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased the product, or their local government office, for details on where and how they can take these items for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract; this product should not be mixed with other commercial wastes for disposal.