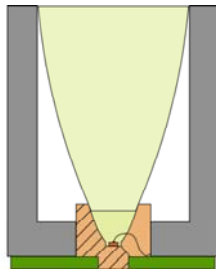


# Power LED - Spotlight

## Description:

The Power LED – Spotlight was designed for maximum light output to a very small radiation angle of  $\pm 4^\circ$ . The module design shows the sketch on the right. A plastic parabolic reflector in combination with a metal parabolic reflector of equal geometry realizes the optical ray forming. The metal housing undertakes the heat dissipation for the 1W power LED die. No additional cooling elements are required. The module enables the precise object illumination at a small driver current. LED lifetime increases as consequence. Typical applications include traffic control lighting, signal lighting and all applications where exactly focussed light is needed. LED dice with various wavelengths may be used and are available on request.



**Spotlight LED basic design**



**bare Spotlight LED in operation**



**green Spotlight LED in the dark**



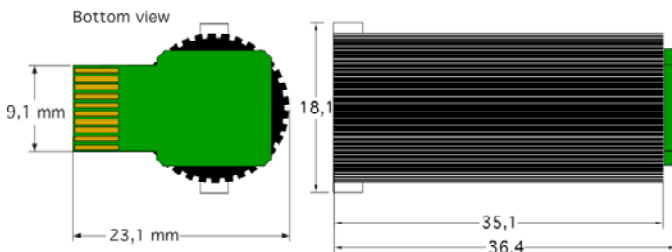
**Spotlight LED**



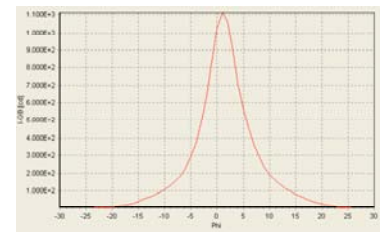
**Workplace lamp**



**Wall washer**



**Mechanical dimension**



**Radiation pattern**

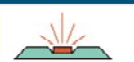
## Applications:

- signal lighting for traffic control
- lighting technology for domestic applications, e.g. wall washer lamps
- microscopy and precision workplace lighting applications
- fiber illumination

## Technical specifications for LED-spotlight modules:

	blue	green	red	white
wavelength [nm]	460	538	640	-
Typ. optical output power @ 350 mA [mW]	150	45	88	-
Typ. optical output power @ 350 mA [lm]	5,5	24	14,5	50
radiation angle (half power bandwidth)	$\pm 4^\circ$	$\pm 4^\circ$	$\pm 4^\circ$	$\pm 4^\circ$

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