

LIGHTING ROUTE

**LED TECHNOLOGIES
FOR SAFETY SIGNAGE**



www.dmrleanmanufacturing.it/en/

DMR 
SRL

LIGHTING ROUTE

cod. DMR-ROUTE50

The Lighting Route 50 projector is a revolutionary projector in the field of security projection. Its purpose is the projection of light paths with very high luminous efficiency (Fig. 5). It is used to replace or supplement the usual adhesive strips or paints used in working environments, which are inevitably subject to wear and tear, requiring extensive and repeated maintenance. With the use of this technology, it will be possible to create linear or complex pathways which, in addition to being highly visible, can also be integrated with control technologies managed by sensors of various types produced by our company. It will therefore be possible to create intelligent setups that integrate production processes, guaranteeing not only safety but also maximum efficiency of production processes. The strong visibility of the projector (fig.2) is due to the meticulous choice of a light source based on a wavelength that is little subject to the ambient light pollution typical of working environments. This makes it possible to have, in full respect of energy saving, a very bright projection with a source of only 50W. Another key element of the projector's high performance is the lens specially designed to have an aperture ratio of 1:1.15. The size of the projected path will vary depending on the installation height, which is recommended to be between 3 and 7 metres, with the line's output varying from 3 to 8 metres by approximately 10 cm wide. The device is equipped with a pair of shutters for adjusting the length of the projected line. Furthermore, this projector is characterised by its versatility, as it is possible to transform the line projector into a template projector, thanks to the special kit. In this way, it is easy to extend the functionality of the projector, which will allow a complete customisation of the projection setup, not only consisting of path lines but also of customisable signals. The template projection kit includes: Gobos stand (fig.4) and focal point (fig.3). In addition, it is possible to choose between two available focal lengths, namely 10° and 15°. The pictures (p. 4) show just a few examples of the pictograms that can be used in the system.



fig.1



fig.2



fig.3



fig.4



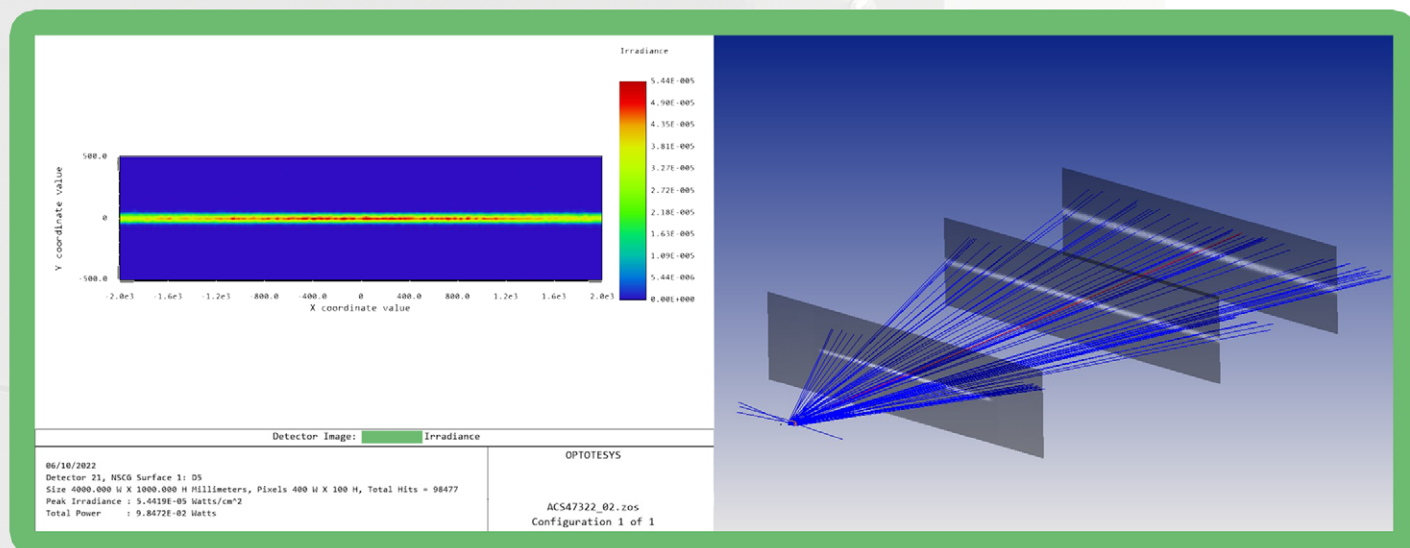
fig.5

Data sheet

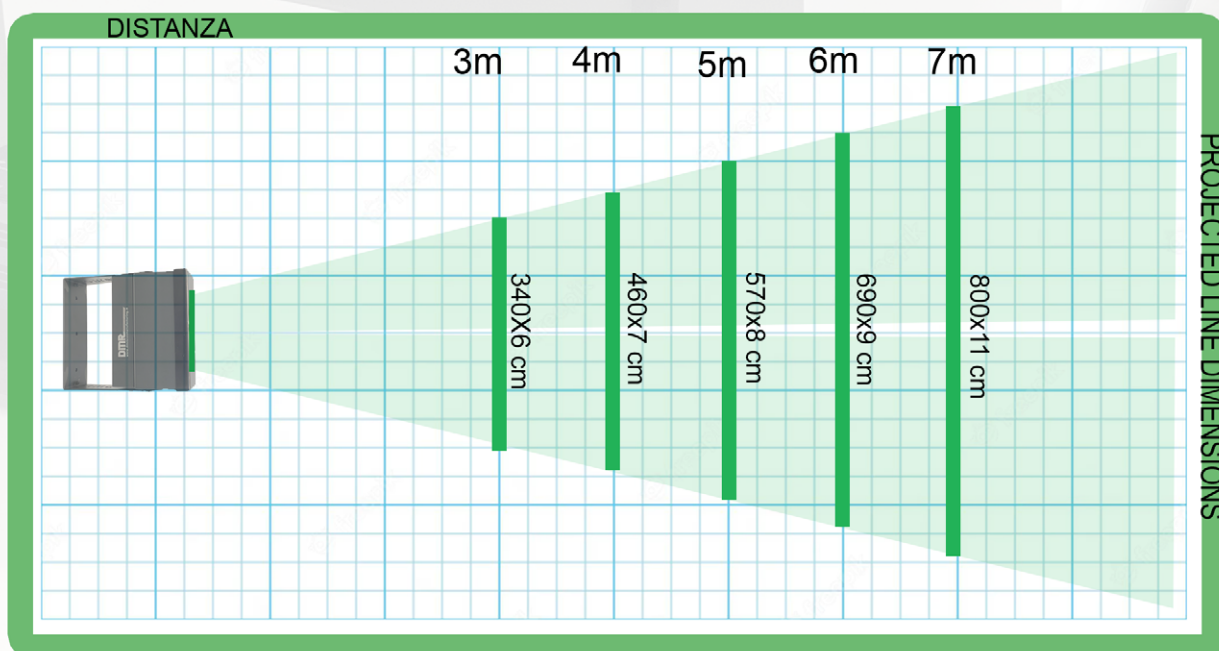
Power supply	220V - 50/60 Hz
Maximum power absorbed	50W
Light source	N.2 HIGH POWER LED
Shape projected	BAR
Wave lenght	525 nm
Path colour	GREEN
Working temperature	DA -40° A 45°
Protection grade	IP65
Weight	2,3 Kg
Sizes	22 x 21 x 9 cm

DMR has designed for this product an optical system capable of guaranteeing excellent performance. In fact, the efficiency of the light source/lens assembly maximises the possibilities of the COB LED to the full, allowing LIGHTING ROUTE to adapt well to any type of industrial environment, even with significant ambient lighting. Below is the luminous flux concentration diagram of the proprietary optical unit.

Irradiation diagram



Photometric diagram



* EXAMPLE: BY INSTALLING THE PROJECTOR AT HEIGHT 6MT, A LINE OF 690 X 9 cm IS PROJECTED.

NOTE: The visibility and dimension of the projection may vary up to 20%, depending on the environmental light.

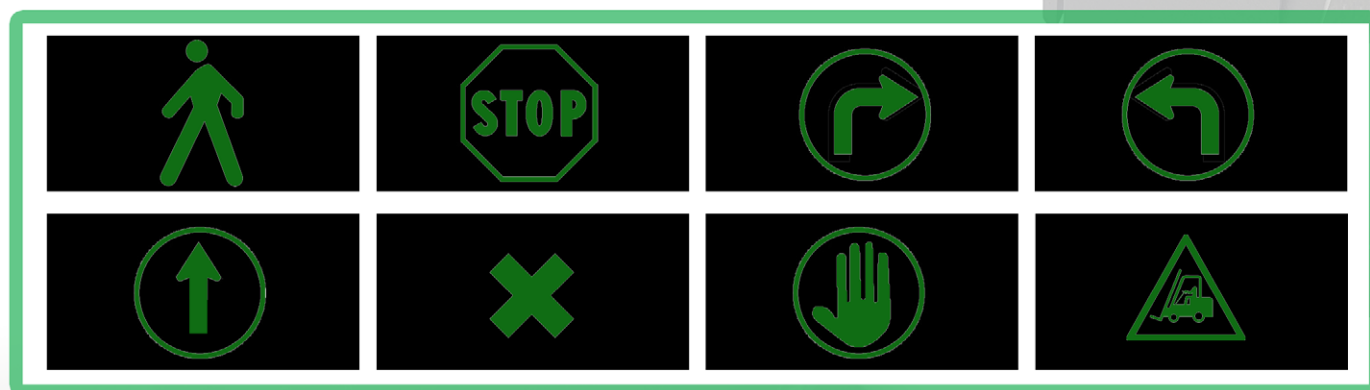


HIGH VISIBILITY
LOW CONSUMPTION
DURABILITY

The range of LIGHTING ROUTE projectors, as mentioned above, includes not only the line projector but also a variant that allows the projection of shapes: the LIGHTING ROUTE - SHAPE.

This variant can be ordered already in its SHAPE configuration, or it is possible to adapt the Lighting Route 50 projector later by purchasing the optional shape kit. The adaptation of the projector using the shape kit can be carried out independently, but for a suitable and precise calibration of the optical system it is advisable to return the device to the company.

The Lighting Route Shape is used to complete lighting route projection setups with a series of pictograms, we illustrate some of them below, but on request it will be possible to customise the shape to be projected.



Photometric diagram

DISTANCE	3mt	4mt	5mt	6mt	7mt
Focal 10° proportion 1:0,076	23cm	30cm	38cm	46cm	54cm
Focal 15° proportion 1:0,10	30cm	40cm	50cm	60cm	70cm

cod. DMR-SHAPE

