



## CARMEN – 70mm COB optic with 10° beam (no halo)

CARMEN is a completely renewed reflector design that can take better advantage of all the light emitted by the light source. This hybrid of transparent reflector and lens maximizes the optical performance - when compared to other metal coated reflectors - with sharp cut-off and eliminated haloing effects. Combined with the LEDiL's patented RZ-technology providing a smooth light pattern without any color-over-angle problems. CARMEN also works as a cover to protect the LED both physically and visually, and the surrounding black holder ensures low UGR ratings for the applications.

### FEATURES

- Patent pending hybrid lens family with 10° ultra-narrow beam
- Higher performance compared to similar metallized reflector designs in the market
- Dust- and TouchProof design
- No halos or light spilling = higher intensity and less glare
- Comes with black reflector, especially optimised for low UGR applications
- Standard retail and track lighting beams available

### COMPATIBILITY

- LES sizes up to 10 mm
- LEDiL recommends spot version to be
- Used with 6mm LES (CBCP 18000cd)
- Holder options for LEDiL, Ideal, BJB, Stucchi, Tyco etc. solderless connectors

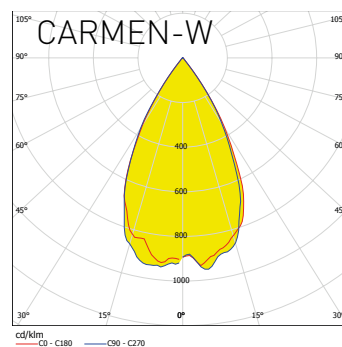
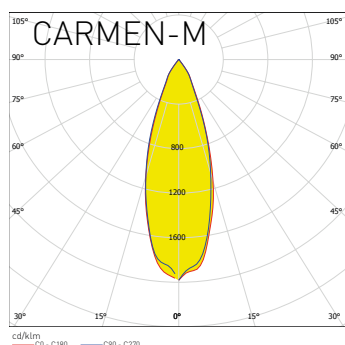
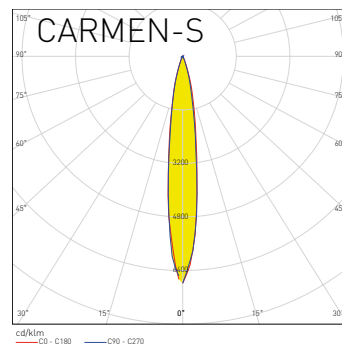


### TYPICAL APPLICATIONS

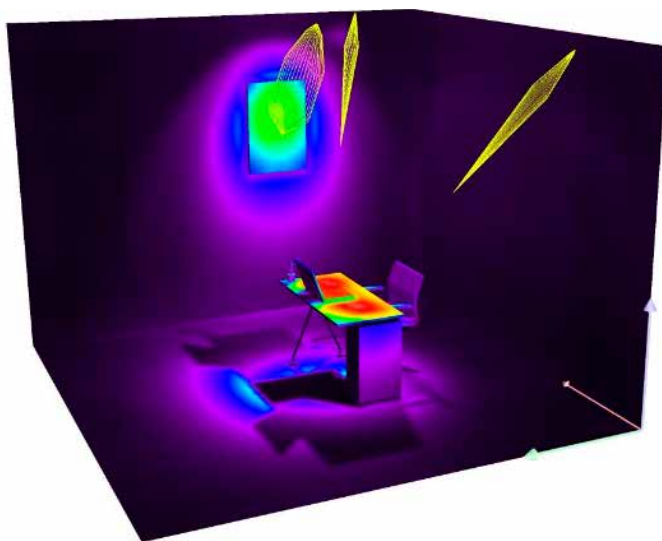
- Track lighting
- Retail and supermarkets
- Industrial lighting
- Outdoor architectural
- General indoor lighting

## TECHNICAL SPECIFICATIONS

- Diameter: 70 mm
- Height: 37 mm
- Typical FWHM
  - CARMEN-S: 14°
  - CARMEN-M: 34°
  - CARMEN-W: 55°
- Typical efficiency: 74%



## APPLICATION EXAMPLE



### CARMEN-M on the picture CARMEN-S (2pcs) on table

Room height	3 m
Luminaire distance from the table	2,2 m
Luminous flux (luminaire)	700 lm
LED	CLU700
LES size	6 mm
Light intensity	
table	500 lx
picture	300 lx

## ORDERING INFORMATION

CP15212\_CARMEN-S-B

CP15215\_CARMEN-M-B

CP15313\_CARMEN-W-B

Visit [www.ledil.com](http://www.ledil.com) for ordering codes and latest product specifications, which may vary by LED