



CARMEN

Your choice for high quality retail lighting

CARMEN is a completely new hybrid reflector and lens design. It takes better advantage of light emitted by a light source, reduces glare and protects the COB from tampering and dust. This – when compared to metal coated reflectors – results in improved optical performance, sharp cutoff and minimized spill light.



FEATURES

- Redefined performance with hybrid reflector and lens design
- Smooth cutoff, low glare, minimized spill light
- Patent pending design protects the COB from tampering and dust
- Comes with black reflector especially optimized for low UGR applications
- Standard retail and track lighting beams available

TYPICAL APPLICATIONS

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

DESIGN EXAMPLE

Application: Premium store lighting
 Room height: 3.5 m
 Total power load: 852 W

Optics: CARMEN-S

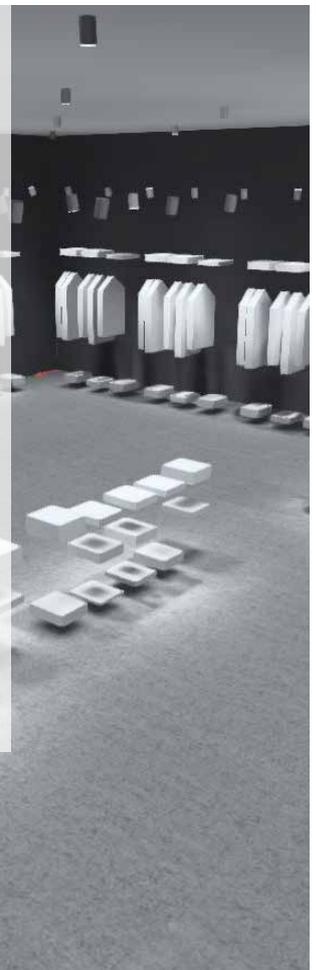
Type of lighting: Acsent lighting
 Mounting height: 2.8 m
 No. of luminaires: 48 pcs
 Spacing between luminaires: 0.65 m
 Luminous flux (Luminaire): 603 lm
 Power (Luminaire): 6.3 W
 Luminous efficacy: 96 lm/W
 Efficiency: 75 %

Optics: CARMEN-M

Type of lighting: Overall lighting
 Mounting height: 3.5 m
 No. of luminaires: 25 pcs
 Spacing between luminaires: 2 m
 Luminous flux (Luminaire): 2241 lm
 Power (Luminaire): 22 W
 Luminous efficacy: 102 lm/W
 Efficiency: 80 %

RESULTS: calculation surface at 0.8m height

Average: 544 lx
 Min: 317 lx
 Max: 969 lx
 u0: 0.58



DIMENSIONS

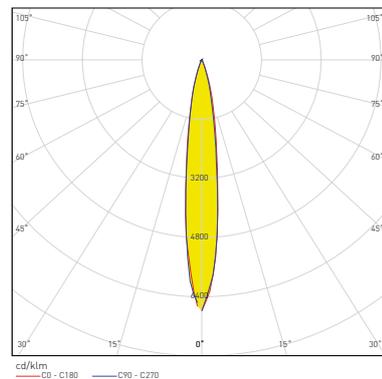
- Diameter: 70 mm
- Height: 36 mm

COMPATIBILITY

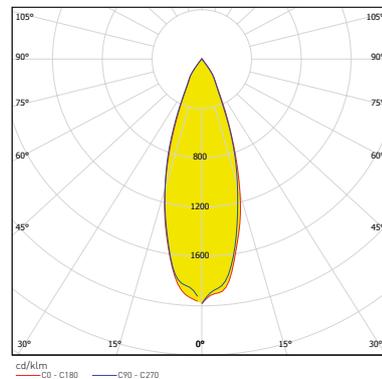
- LES sizes up to 11mm
- **Holder B:** 3rd party connectors from BJB and Stucchi
- **Holder C:** LEDiL HEKLA

CARMEN-S

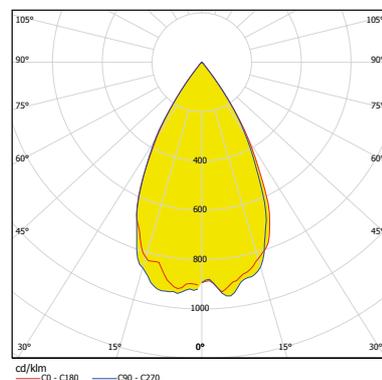
- 10° spot beam with recommended 6mm LES
- Accent lighting
- Typical FWHM: 12°

**CARMEN-M**

- Medium beam with around 30-35° light distribution
- Wider spotlights and downlighting from higher heights
- Typical FWHM: 44°

**CARMEN-W**

- Wide beam with 50° light distribution
- General tracklights and downlighting applications
- Typical FWHM: 57°

**ORDERING INFORMATION**

Consult www.ledil.com/carmen for ordering codes and latest product specifications, which may vary by LED.