



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

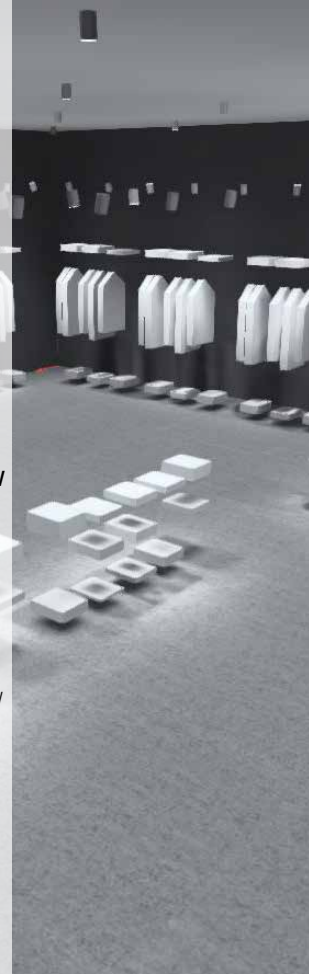
- Redefined performance with hybrid reflector and lens design
- Smooth cutoff, low glare, minimized spill light
- Patent pending design protects the COB from tampering and dust
- Comes with black reflector especially optimized for low UGR applications
- Standard retail and track lighting beams available

TYPICAL APPLICATIONS

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

DESIGN EXAMPLE

Optics: CARMEN-S	
Efficiency:	75%
Luminous flux (Luminaire):	603 lm
Power:	6.3W
Luminous efficacy:	96 lm/W
No. of luminaires:	48 pcs
Mounting height:	2.8m
Spacing between luminaires:	0.65m
Optics: CARMEN-M	
Efficiency:	80%
Luminous flux (Luminaire):	2241lm
Power:	22W
Luminous efficacy:	102 lm/W
No. of luminaires:	25 pcs
Mounting height:	3.5m
Spacing between luminaires:	2m
Room height: 3.5m	
Total load on room: 852 W	
Total luminous efficacy: 100 lm/W	
Calculation surface at 0.8m height	
Average:	544 lx
Min:	317 lx
Max:	969 lx
u0:	0.58



DIMENSIONS

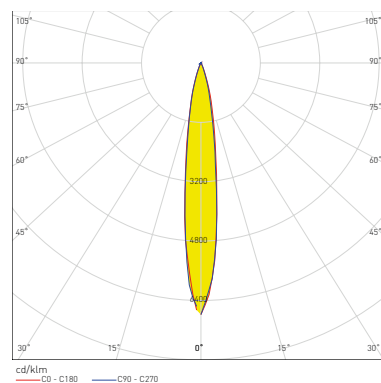
- Diameter: 70 mm
- Height: 36 mm

COMPATIBILITY

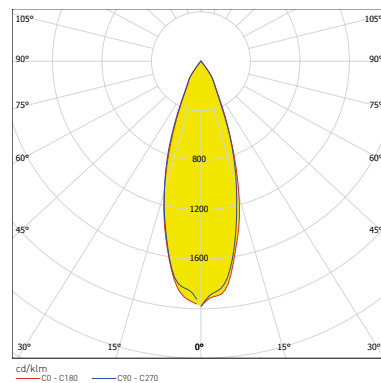
- LES sizes up to 11mm
- **Holder B:** 3rd party connectors from BJB and Stucchi
- **Holder C:** LEDiL HEKLA

CARMEN-S

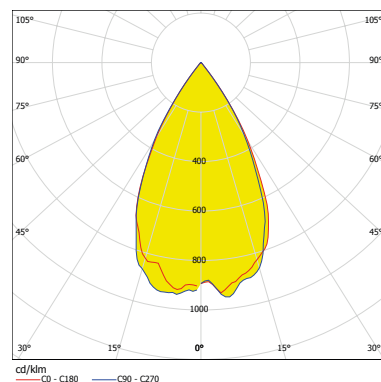
- 10° spot beam with recommended 6mm LES
- Accent lighting
- Typical FWHM: 12°

**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.