

## LINNEA-90 – A new 40mm wide linear lens for mid power LEDs



LEDiL proudly presents LINNEA - a new low profile linear product family for indoor lighting. This new family of optics has been designed to be a perfect solution in many ways. From the aesthetics of both light and outlook to the ease of assembly and compatibility. Linking optics together and onto the PCB is fast and easy resulting in solid constructions without gaps. The diffused lens surface provides uniform color reproduction, homogenous lens surface and less glare. Supporting most commonly used 24mm wide PCBs, freedom to use with any LED pitch and the large number of different beam solutions to be added in the future ensures you have a widely compatible solution for years to come.

**Not public**  
Launch date  
December 15, 2016

- » **Wide PCB compatibility and easy installation with integrated clips and no screws needed**
- » **Uniform luminance and improved glare control in all variants**
- » **Allows a solid linear construction without gaps between the lenses**

### FEATURES and BENEFITS

- 40mm wide PC lens with a diffused surface and a low profile
- 90° beam will be followed by a range of symmetrical and asymmetrical beams
- Solid construction and optional end caps to finalize the look and to protect from excessive dust

### TYPICAL APPLICATIONS

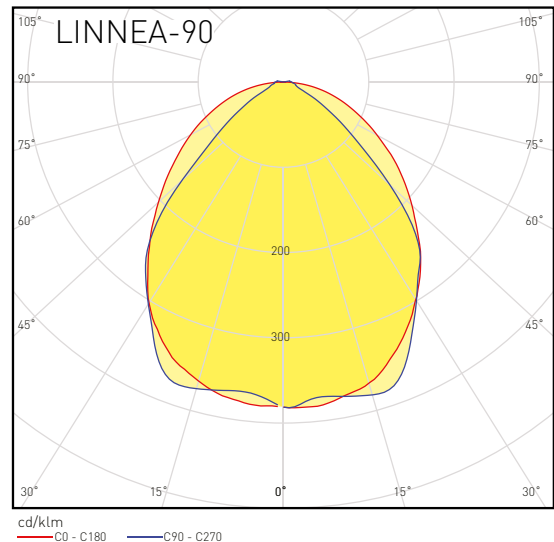
- Fluorecent lamp replacements
- Industrial lighting
- Office lighting
- Retail
- Garages and canopies
- Pendant luminaires

## TECHNICAL SPECIFICATIONS

- Dimensions: 40x285 mm
- Height: 9,5 mm
- Typical FWHM: 90°
- Typical efficiency: 85%
- Lens clips to a metal sheet or profile while resting on top of the PCB – Two versions optimized for different profile thicknesses (1 mm and 0.5 mm)
- Enough space for board-to-board connections

### COMPATIBILITY

- Optimized for the most common Zhaga mid-power 24mm wide PCBs



## APPLICATION EXAMPLE

### LINNEA-90 WAREHOUSE SIMULATION

Lenses recessed in luminaire

Room height:	3.2m
Number of luminaire rows:	6pcs
Number of luminaires in a row:	6pcs
Number of luminaires:	36pcs
Number of optics in luminaire:	4 pcs
Mounting height:	5cm from ceiling (3.195m)
Luminous flux (Luminaire):	4000lm
Power:	34W

#### Results on workplane at 0.8m

Average:	469 lx
Min:	317 lx
Max:	535 lx
u0:	0.68

**UGR levels <25**

(CIE standard UGR rating for store rooms is 25)

### ORDERING INFORMATION

F15523\_LINNEA-90 (for 1 mm thick profile)

F15940\_LINNEA-90-B (for 0.5 mm thick profile)

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