

## 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. A perfect solution for many applications, LINNEA optics are aesthetically pleasing in both their design and the light they produce. In addition they are easy to assemble and are compatible with a wide range of PCBs. Linking optics together onto the PCB is fast and easy, resulting in a seamless construction. The diffused lens surface provides uniform color reproduction a homogenous lens surface and less glare. LINNEA supports most commonly used 24mm and 20mm wide PCBs and this, together with the freedom to use LINNEA with any LED pitch, allows a wide degree of compatibility. The large number of different beam solutions that will be added in the future will further expand the ways you can use this flexible family in the years to come.

- » **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
- Range of symmetrical and asymmetrical beams with 90° beam coming first
- Solid construction and optional end caps to finalize the look and to protect from excessive dust

### TYPICAL APPLICATIONS

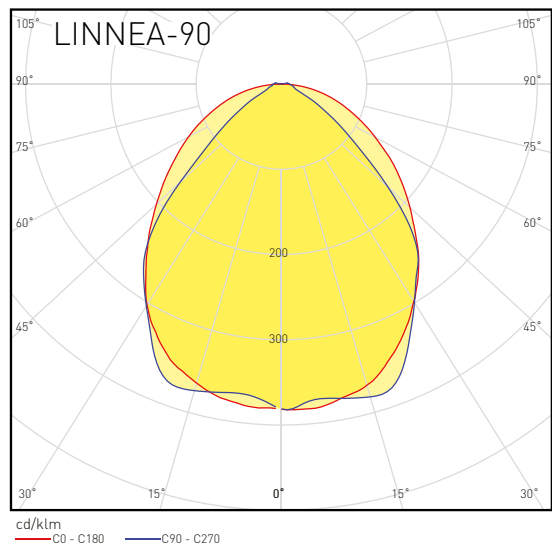
- Fluorecent lamp replacements
- Industrial lighting
- Office lighting
- Retail
- Garages and canopies
- Pendant luminaires

## TECHNICAL SPECIFICATIONS

- Dimensions: 40x285 mm
- Height: 9,5 mm
- Typical FWHM: 90°
- Typical efficiency: 85%
- Two lens versions with integrated clips optimized for 1-1.2mm and 0.5mm profile thicknesses
- Can be easily installed to metal profile, sheet or even extrusion
- Enough space for board-to-board connections

### COMPATIBILITY

- Optimized for the most common Zhaga mid-power 24mm and 20mm wide PCBs



## APPLICATION EXAMPLE


### LINNEA-90 WAREHOUSE SIMULATION

Lenses recessed in luminaire

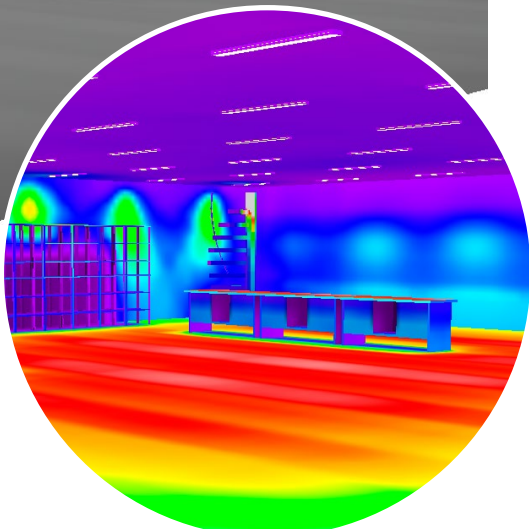
Room height:	3.2m
Number of luminaire rows:	6pcs
Number of luminaires in a row:	6pcs
Number of luminaires:	36pcs
Number of optics in luminaire:	4 pcs
Mounting height:	5cm from ceiling (3.195m)
Luminous flux (Luminaire):	4000lm
Power:	34W

**Results on workplane at 0.8m**

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



LINNEA Application note



**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