

### WINNIE

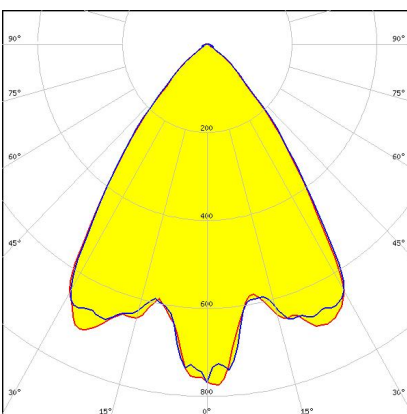
Ø50 mm low profile lenses for retrofits, downlights and compact tracklights, up to 21 mm LES size COBs and LEDiL HEKLA sockets/connectors

WINNIE-family has a unique folded TIR design which substantially reduces height compared to traditional collimating optical designs. WINNIE features a convenient MR16 size for a range of luminaires or retrofit designs and can be used with heat sinks pre-drilled for Zhaga compatible light engines. Hyper-reflective white PC holders and optical grade PMMA gives exceptional optical efficiency (close to 90 %). Compatible with LEDiL HEKLA with Holder C as well as 3rd party connectors from Bender+Wirth.



### PRODUCTS:

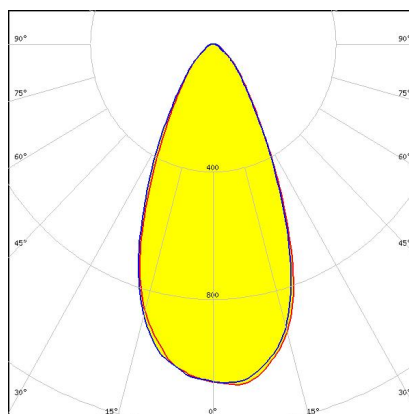
#### CN16191\_WINNIE-WW-C



**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 15.70 mm**

~65° wide beam with holder C  
compatible with LEDiL HEKLA

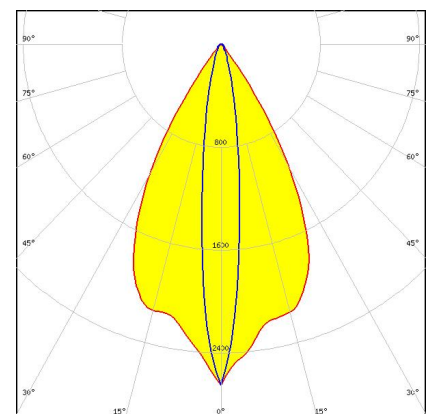
#### CN14238\_WINNIE-W



**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

~50° wide beam. Holder with 35 mm  
screw hole distance according to  
Zhaga standard. Compatible with  
Bender+Wirth 4xx Typ L5 connector.

#### CN15826\_WINNIE-O-C

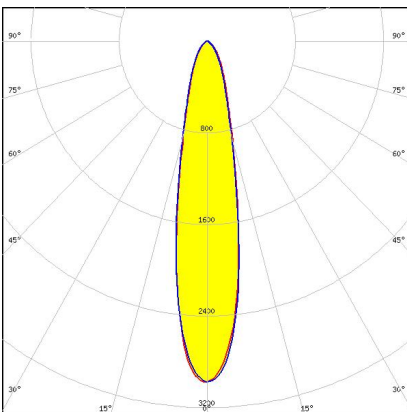


**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 19.50 mm**

~60° + 20° oval beam with holder C  
compatible with LEDiL HEKLA

### PRODUCTS:

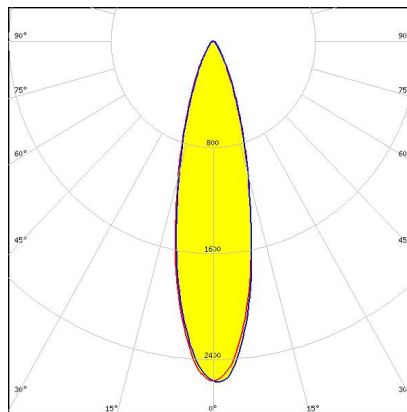
#### CN14236\_WINNIE-S



**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

~20° spot beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

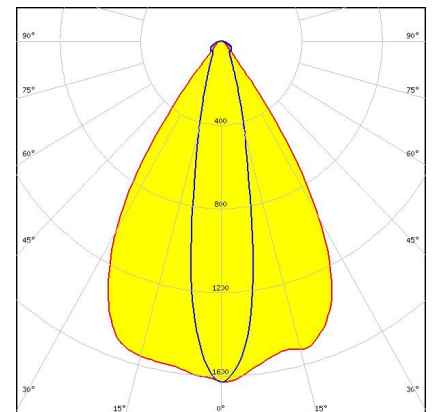
#### CN15824\_WINNIE-M-C



**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 19.50 mm**

~35° spot beam with holder C compatible with LEDiL HEKLA

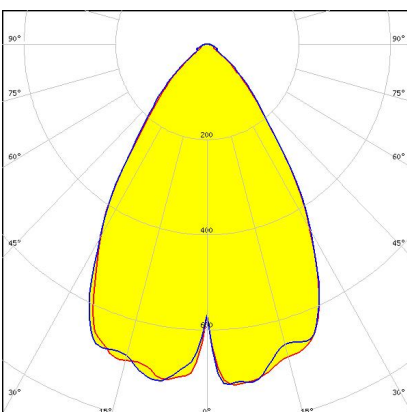
#### CN14811\_WINNIE-O



**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

~60° + 20° oval beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

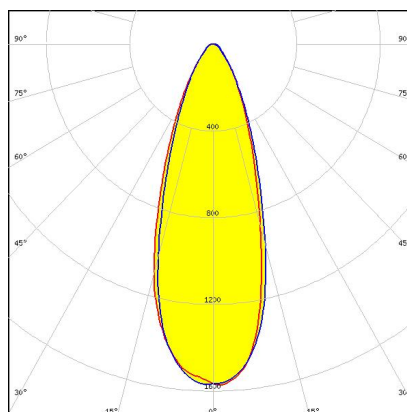
#### CN16190\_WINNIE-WW



**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

~65° wide beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

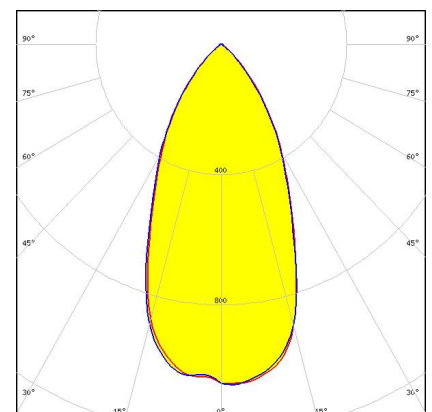
#### CN14237\_WINNIE-M



**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

~35° medium beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

#### CN15825\_WINNIE-W-C

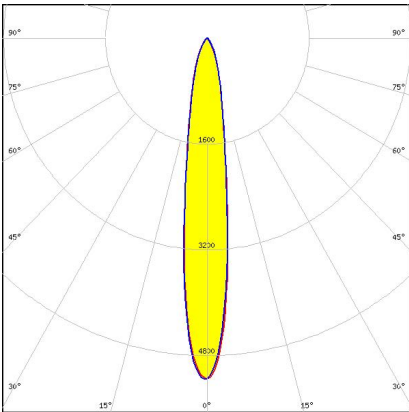


**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 19.50 mm**

~50° spot beam with holder C compatible with LEDiL HEKLA

## PRODUCTS:

### CN15822\_WINNIE-S-C



**Dimensions: 50.0 mm x 50.0 mm**

**Height: 19.50 mm**

~20° spot beam with holder C

compatible with LEDiL HEKLA

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
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