

### WINNIE

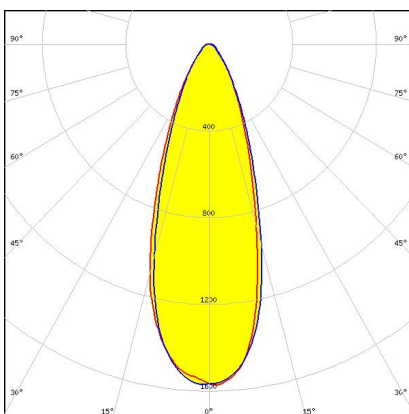
**Ø50 mm low profile lenses for retrofits, downlights and compact tracklights, up to 21 mm LES size COBs and LEDiL HEKLA sockets/connectors**

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:

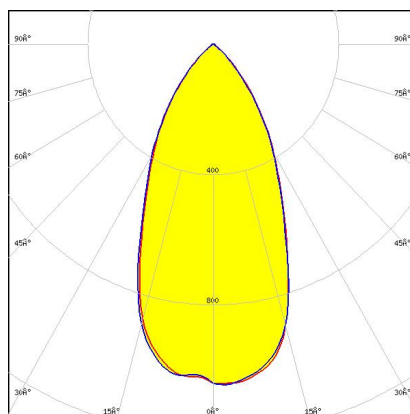
#### WINNIE-M



**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.

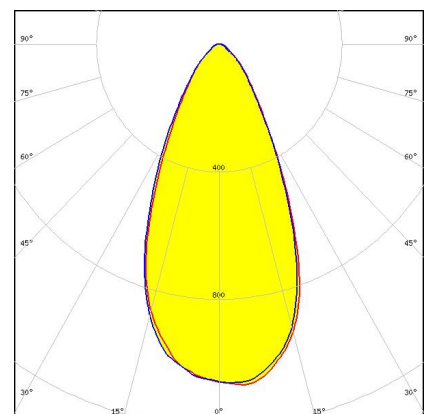
#### WINNIE-W-C



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

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

#### WINNIE-W

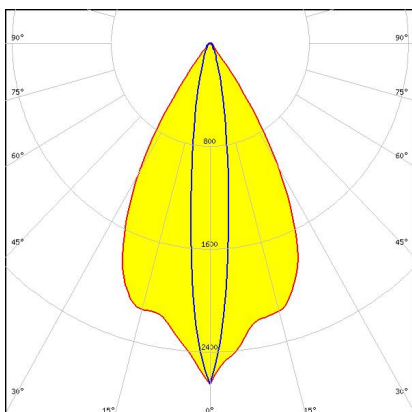


**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**

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

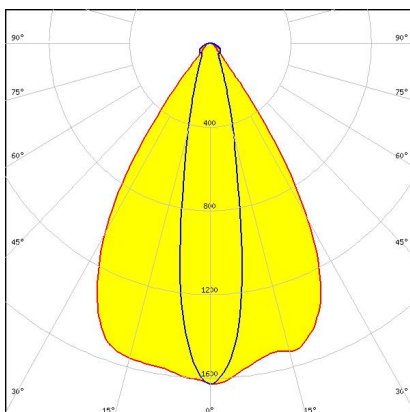
### PRODUCTS:

#### WINNIE-O-C



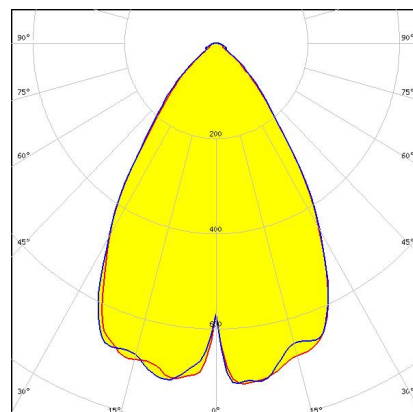
**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 19.50 mm**  
 ~60° + 20° oval beam with holder C  
 compatible with LEDiL HEKLA

#### WINNIE-O



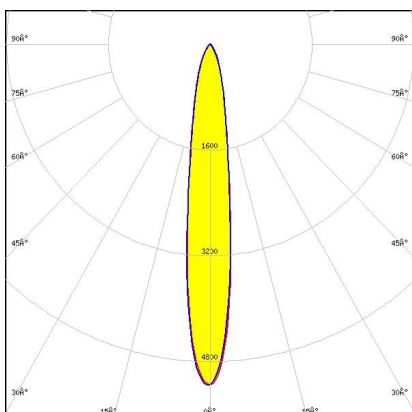
**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**  
 ~60° + 20° oval beam. Holder with  
 35 mm screw hole distance  
 according to Zhaga standard.  
 Compatible with Bender+Wirth 4xx  
 Typ L5 connector.

#### WINNIE-WW



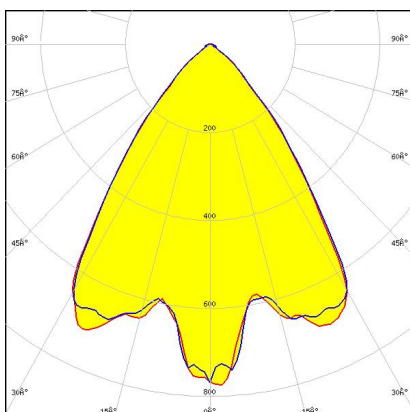
**Dimensions: 49.8 mm x 49.8 mm**  
**Height: 19.30 mm**  
 ~65° wide beam. Holder with 35 mm  
 screw hole distance according to  
 Zhaga standard. Compatible with  
 Bender+Wirth 4xx Typ L5 connector.

#### WINNIE-S-C



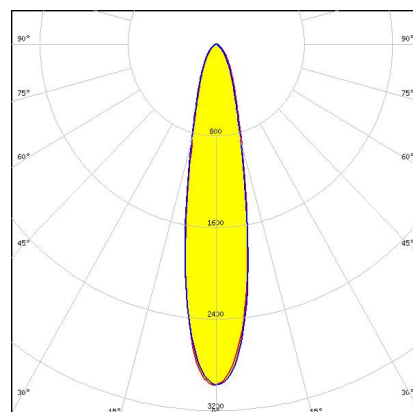
**Dimensions: 50.0 mm x 50.0 mm**  
**Height: 19.50 mm**  
 ~20° spot beam with holder C  
 compatible with LEDiL HEKLA

#### 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

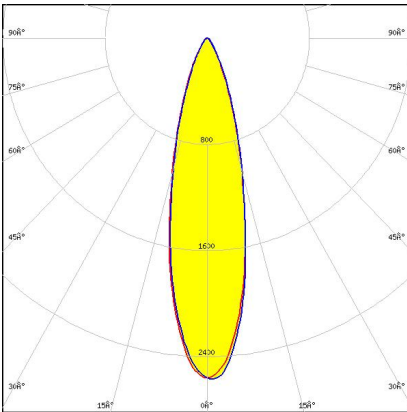
#### WINNIE-S



**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.

## PRODUCTS:

### 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

### 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:

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