



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



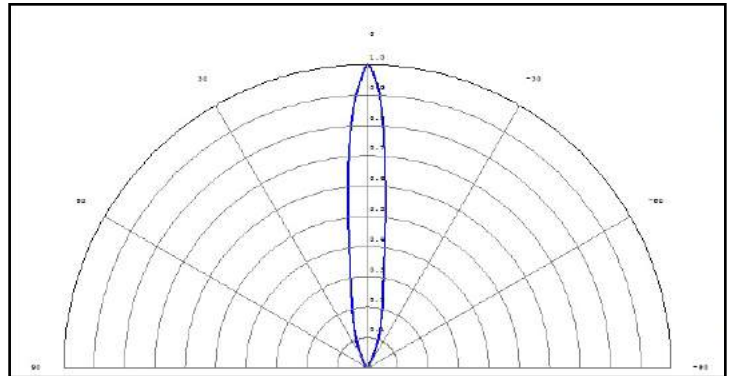
## Contents

---

1	<b>KCLP1857CR</b>	<b>12° FWHM - DIA 50mm</b>	Pag. 2
2	<b>KCLP1857ME</b>	<b>30° FWHM - DIA 50mm</b>	Pag. 3
3	<b>KCLP1857WI</b>	<b>50° FWHM - DIA 50mm</b>	Pag. 4
4	<b>KCLP1857CR Drawing</b>		Pag. 5
5	<b>KCLP1857ME Drawing</b>		Pag. 6
6	<b>KCLP1857WI Drawing</b>		Pag. 7
7	<b>How to Order</b>		Pag. 8
8	<b>How to Order: Examples</b>		Pag. 8
9	<b>Materials / Use and Maintenance / Disclaimer</b>		Pag. 9

---

## 1. KCLP1857CR - 50mm Narrow Beam Angle



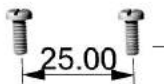
- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 12°
- Full angle at 10% : ~ 32°-37°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm

50mm  
12° FWHM



Secondary Reflector

Twist and Lock



25.00

M3 Screws (Not Provided)



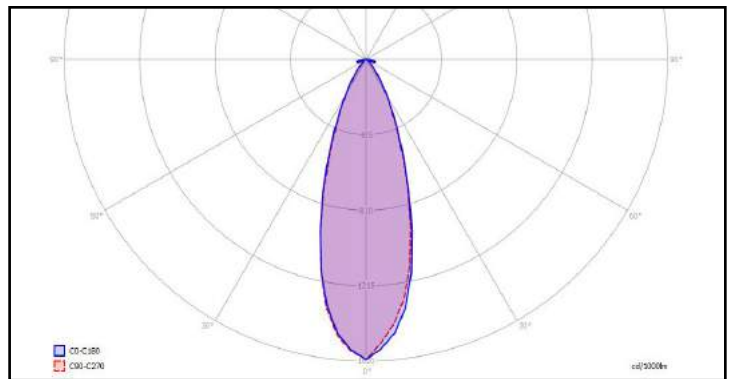
Primary Reflector (see pag. 8 for different Manufacturers of CoBs)



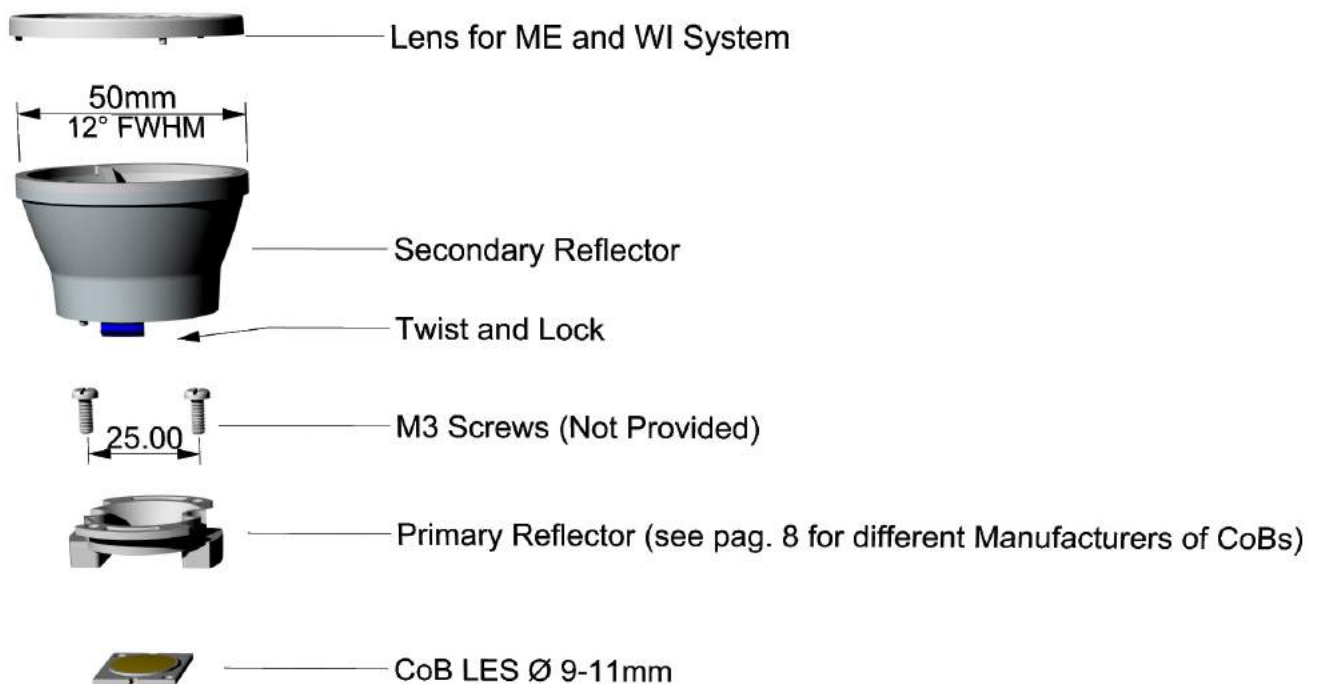
CoB LES Ø 9-11mm

### [How to Assemble](#)

## 2. KCLP1857ME - 50mm Medium Beam Angle

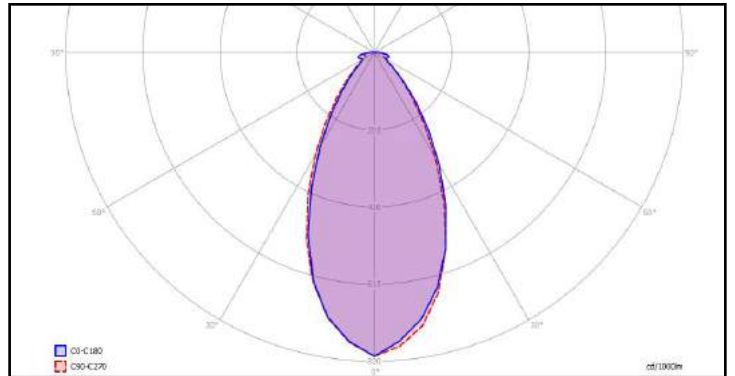


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 34°
- Full angle at 10% : ~ 63°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm

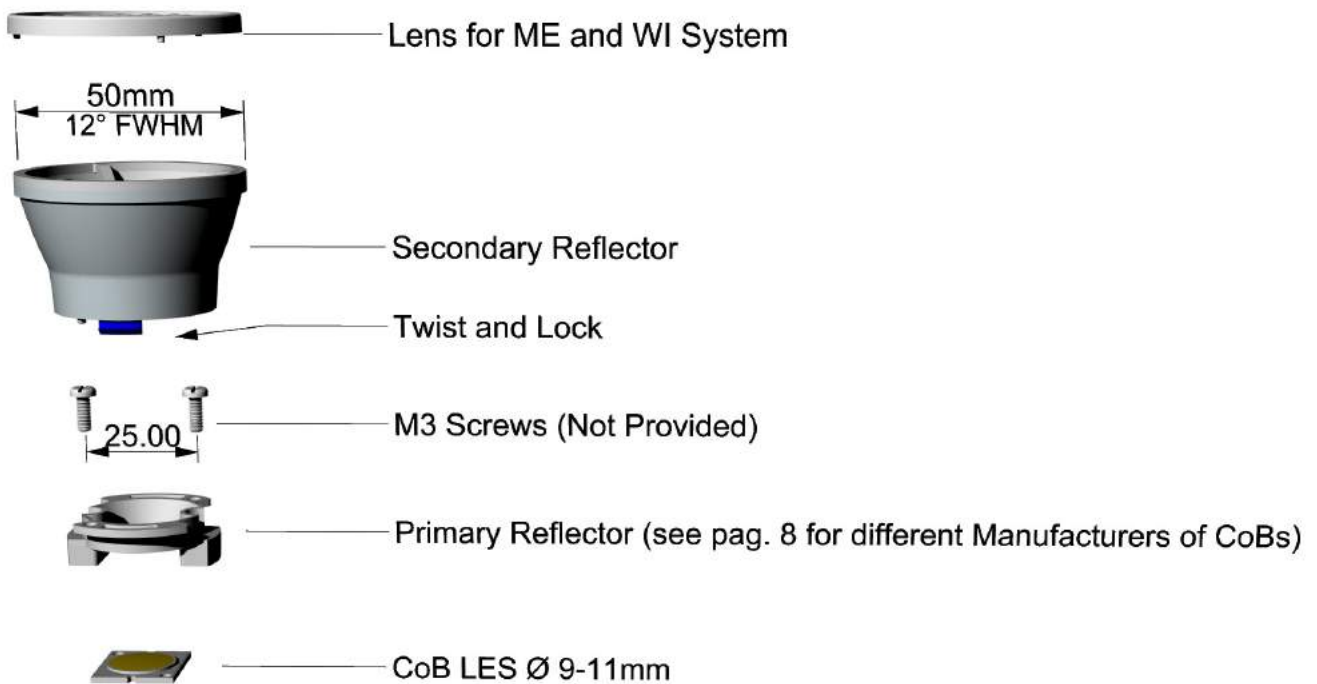


### *How to Assemble*

### 3. KCLP1857WI - 50mm Wide Beam Angle

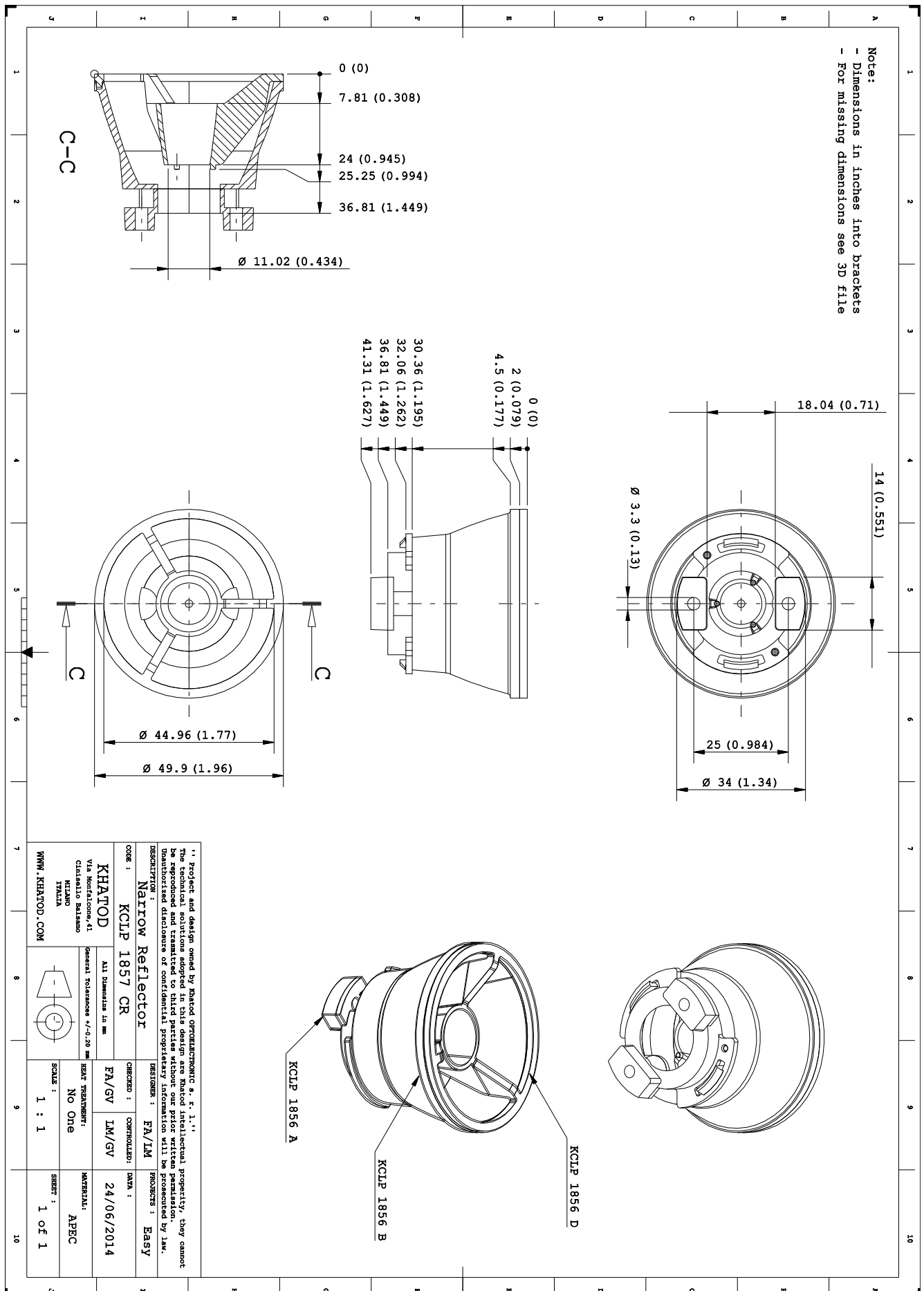


- Material = APEC + Reflector Coating
- Full angle at 50% : ~ 50°
- Full angle at 10% : ~ 97°
- The light spots here represented refer to tests carried out with CoB LEDs @ 1000lm



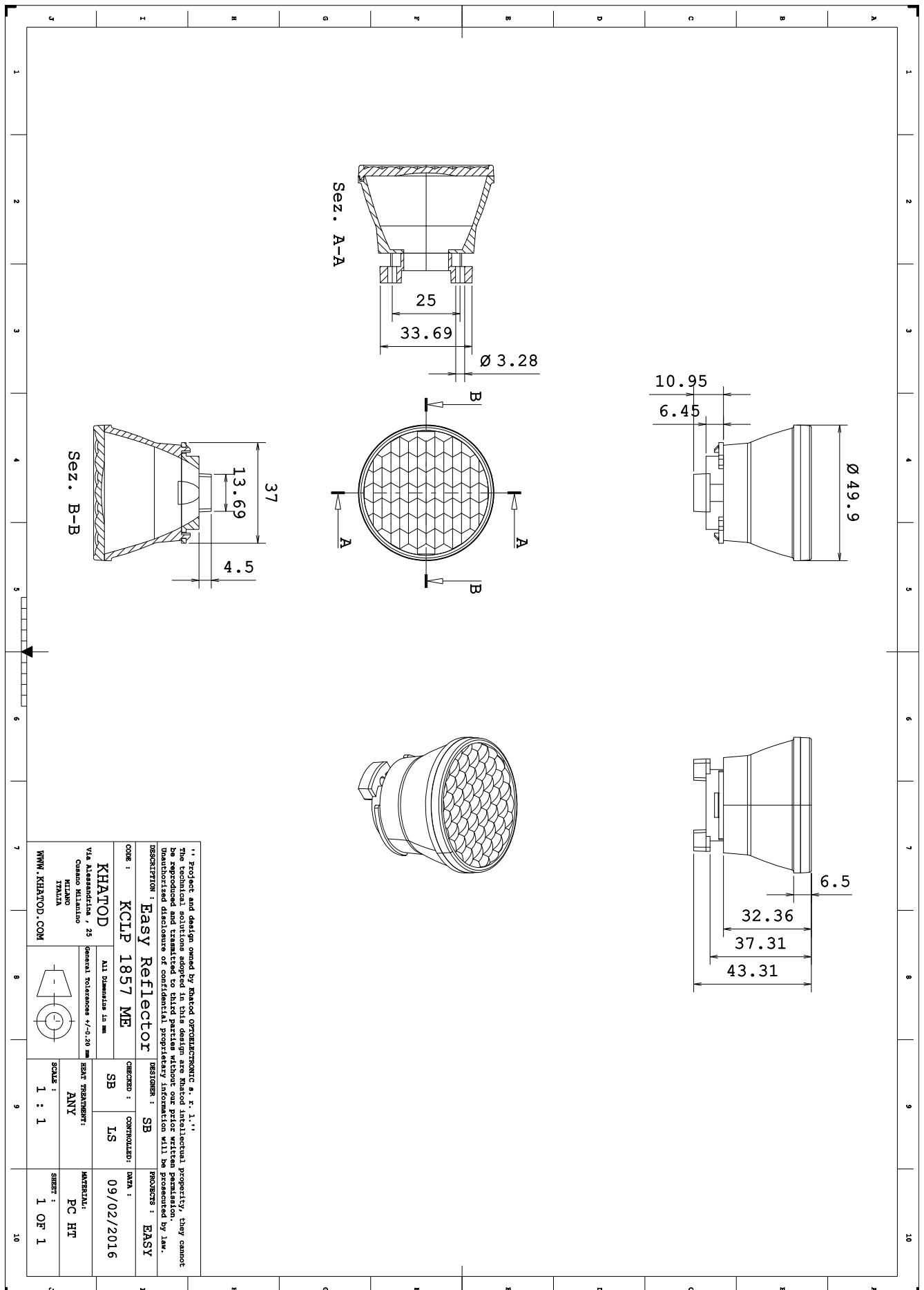
### [How to Assemble](#)

## 4. KCLP1857CR Drawing

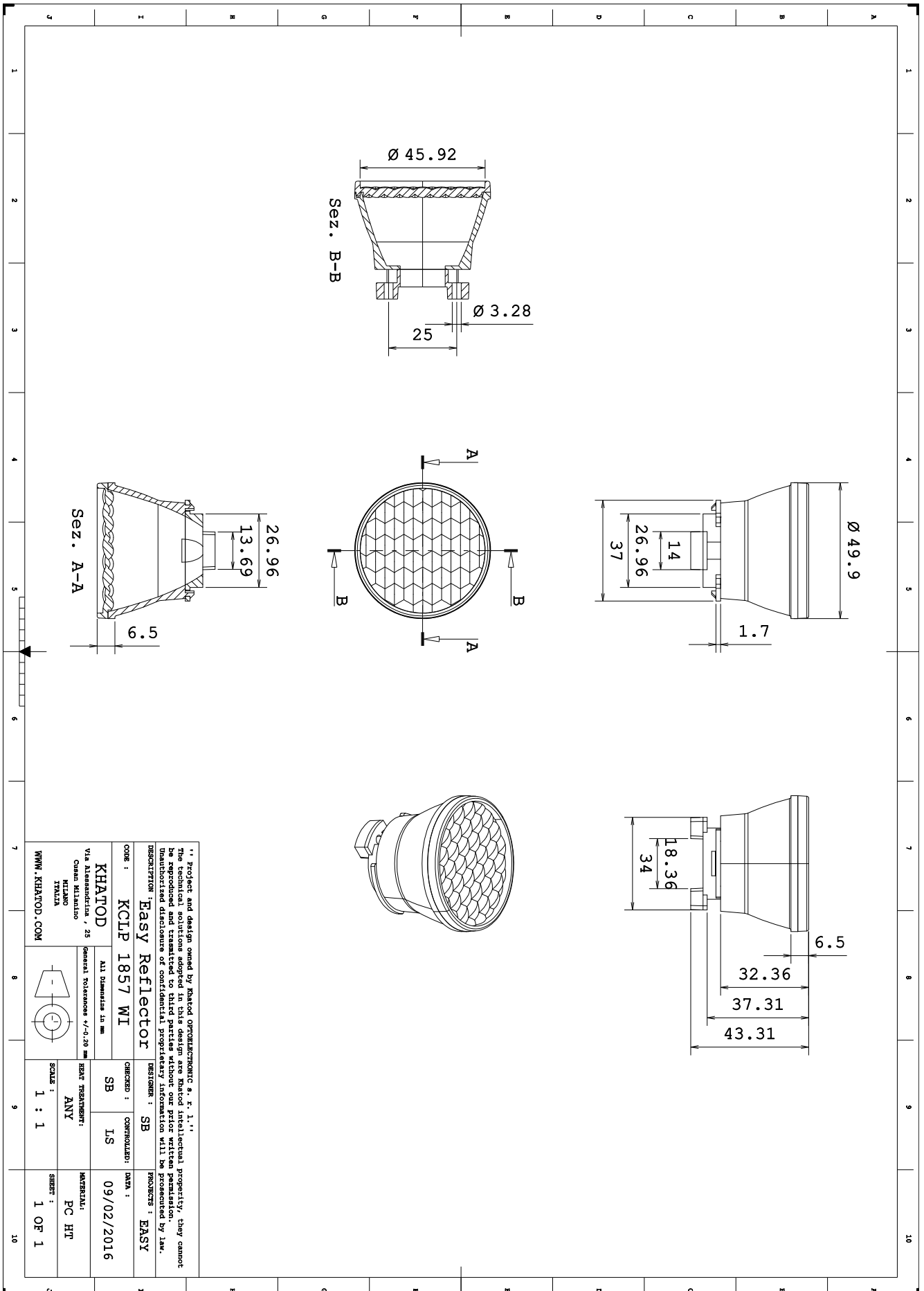


<p>“ Project and design owned by Khatod OPTOELECTRONIC S. R. L.” The technical solutions adopted in this design are Khatod intellectual property, they cannot be reproduced and transmitted to third parties without our prior written permission. Unauthorized disclosure of confidential proprietary information will be prosecuted by law.</p>	
<p>DESCRIPTION : <b>Narrow Reflector</b></p>	<p>DESIGNER : FA/IM</p>
<p>CODE : KCLP 1857 CR</p>	<p>PRODUCTS : EASY</p>
<p>DATE : 24/06/2014</p>	<p>CONTROLLED: IM/GV</p>
<p>GENERAL TOLERANCES ±0.20 mm</p>	<p>HEAT TREATMENT: No One</p>
<p>SCALE : 1 : 1</p>	<p>MATERIAL: ADEC</p>
<p>SHEET : 1 OF 1</p>	
<p>WWW.KHATOD.COM</p>	

## 5. KCLP1857ME Drawing



**6. KCLP1857WI Drawing**



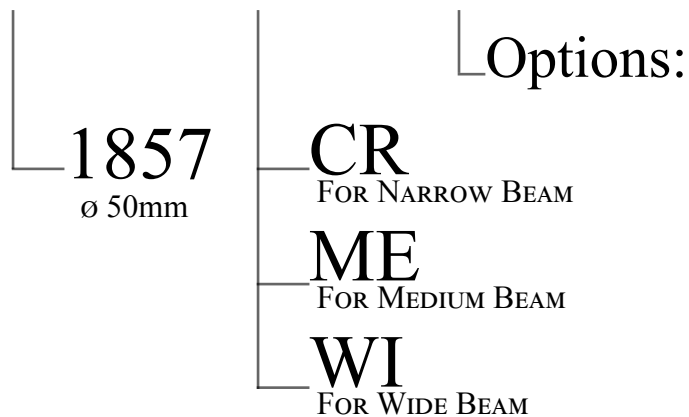
<p>!! Project and design owned by Khatod OPTOELECTRONIC S. r. l.!! The technical solutions adopted in this design are Khatod intellectual property, they cannot be reproduced and transmitted to third parties without our prior written permission. Unauthorized disclosure of confidential proprietary information will be prosecuted by law.</p>	
<p>DESCRIPTION: <b>Easy Reflector</b></p>	<p>PRODUCTS: <b>EASY</b></p>
<p>CODE: <b>KCLP 1857 WI</b></p>	<p>DESIGNER: <b>SB</b></p>
<p>KHATOD Via Alessandro 28 Cuneo (AL) 12040 WILMO WILMO WWW.KHATOD.COM</p>	<p>DATE: <b>09/02/2016</b></p>
<p>ALL Dimensions in mm General Tolerances +/- 0.20 mm</p>	<p>CONTROLLED: <b>LS</b></p>
<p>SCALE: <b>1 : 1</b></p>	<p>REVISIONS: <b>ANY</b></p>
<p>MATERIAL: <b>PC HTF</b></p>	<p>SHEET: <b>1 OF 1</b></p>



## 7. How to Order

---

**KCLP XXXX XX XXXX**



## 8. How to Order: Examples

---

1 - 50mm Diameter, Narrow Beam

**KCLP 1857 CR**

2 - 50mm Diameter Medium Beam

**KCLP 1857 ME**

3 - 50mm Diameter Wide Beam

**KCLP 1857 WI**

## 9. Materials

Material	Top	Tstg
Reflector: PC APEC + Aluminum Coating with protective Clear Coating	-40°...150°C	-40°...150°C
Lens: Clear PMMA	-40°...90°C	-40°...90°C

### Notes:

- Intensity (I) and illuminance (E) data are normalized by 1000 lm
- The optical values shown are the result of optical simulations carried out with ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

### Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES OR REFLECTORS WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND DRY WITH A CLEAN SOFT CLOTH; DO NOT CLEAN REFLECTORS
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

### Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.

Should you require further information, please contact Khatod for advice. All lens testing must be subject to identical conditions as Khatod test condition. Khatod Optoelectronic, Milan, Italy, manufactures lenses for LEDs. Any other use of the lens shall void our liability and warranty. The lenses are an inert component to be used in the manufacture of various products. Our warranty and liability are limited only to the manufacture of the lens. You may not modify, copy, distribute reproduce, license or alter the lens and related materials of Khatod. Khatod does not warrant against damages or defects arising out of the use or misuse of the products; against defects or damage arising from improper installation, or against defects in the product or in its components. No warranty of any kind, expressed or implied, is made regarding the safety of the products. The entire risk as to the quality or performance of the product is with the buyer. In no event shall Khatod be liable for any direct, indirect, punitive, incidental, special, consequential damages, or any damages whatsoever arising out of or connected with the use or misuse of the product. Khatod shall not have any obligation with respect to the product or any part thereof, whether based on contract, tort, strict liability or otherwise. Buyer assumes all risks and liability from use of the product. The laws of Milan, Italy govern this product warranty and liability and you hereby consent to the exclusive jurisdiction and venue of courts in Milan, Italy in all disputes arising out of or relating to the use of this product. Production, marketing, distribution, sale of these products as well as their possible modifications and variations are only exclusive right of Khatod Optoelectronic. No company can perform any of these actions without written permission released by Khatod Optoelectronic. The information contained in this document is proprietary information of Khatod Optoelectronic and may change without notice.

REPRODUCTION PROHIBITED.