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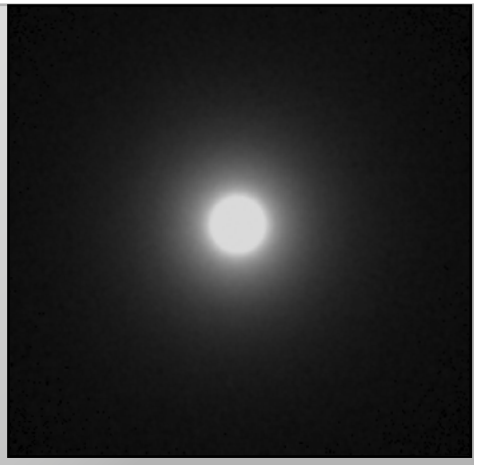
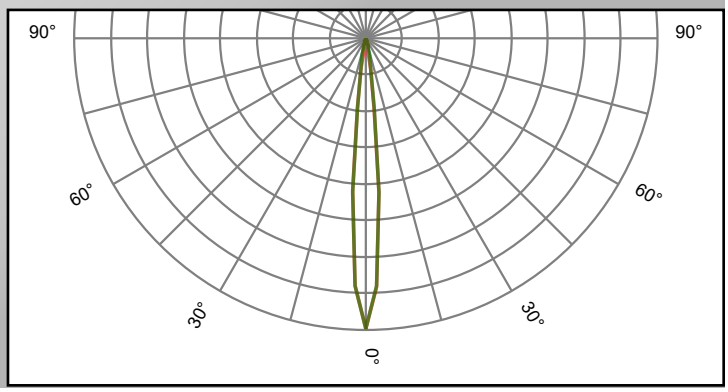
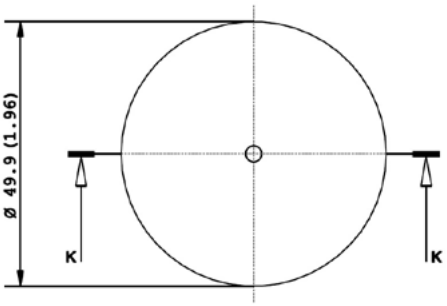
AURORA50 is a versatile lens family with a **diameter of 49.90mm** designed to bring clarity, balance, and elegance to COB LED lighting. Created for retail, architectural, and accent environments, it allows light to enhance spaces naturally, without distraction. Optimized for **COB LEDs** with light-emitting surfaces **from 4 mm to 13 mm**, these lenses are manufactured from high-quality optical PMMA to ensure excellent transmission, uniform beam control, and consistent visual comfort.
To seamlessly integrate into any luminaire design, AURORA lenses are paired with interchangeable PC holders available in **White, Black, or Clear**, offering both aesthetic **flexibility and reliable mechanical stability.**
Compatible with white, Tunable White and Dim-to-Warm COB LEDs and fully compliant with **Zhaga Book 10 Connectors**, AURORA supports modern, future-proof lighting solutions.
From tight accent beams to wide, ambient distributions, AURORA offers a complete selection of optics: Narrow, Medium, Wide, Extra Wide, and Ultra Wide — giving designers total freedom to shape light with precision.
AURORA doesn't just distribute light — it creates atmosphere.

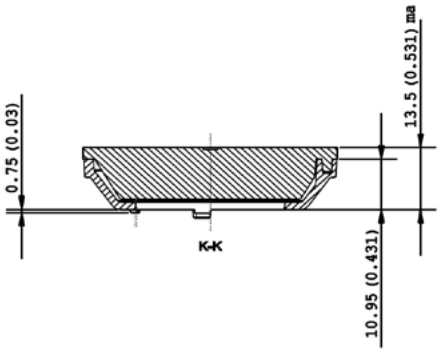
AURORA50/NA - Narrow Beam - White Holder





Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC WHITE	• Full angle at 50% from maximum: ~ 10° • Full angle at 10% from maximum: ~ 20°	The light spots here represented refer to tests carried out with COBs 4mm LES.

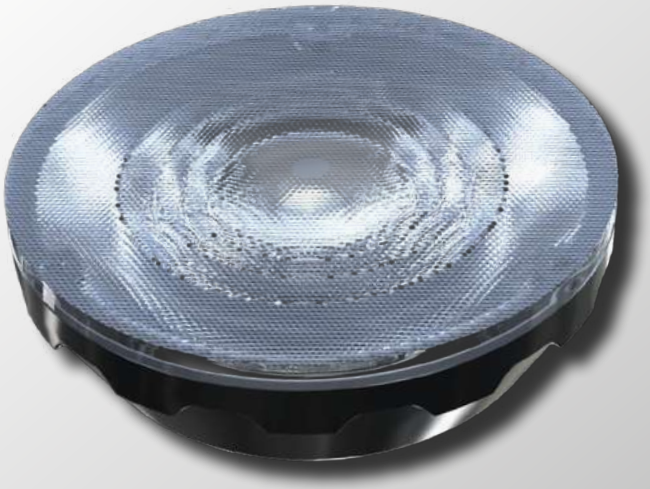


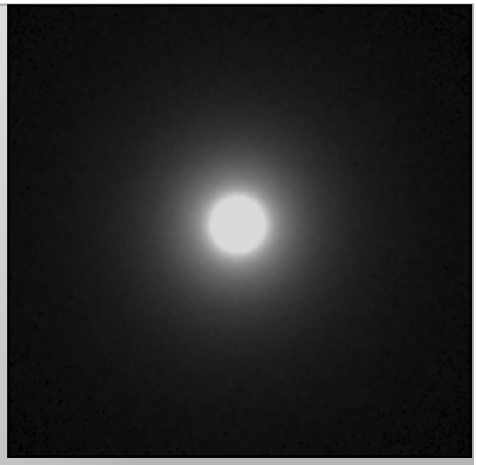


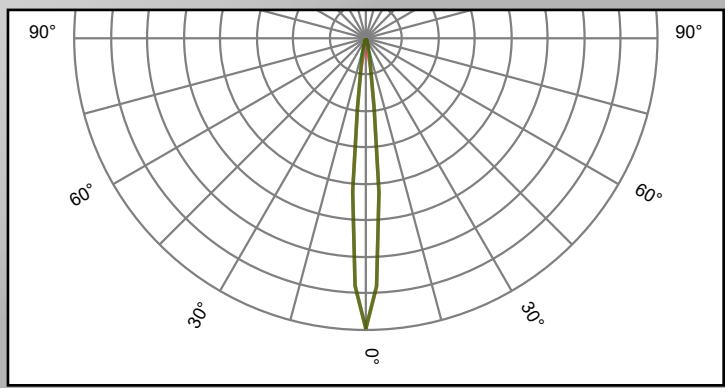
Each element forming the final assembly will be supplied as a single part.
AURORA50/NA is composed of the following parts: 1 pc of PLAURORA50/NA + 1 pc of KEAURORA50/B (White Holder) which will be supplied unassembled.

Technical Datasheet

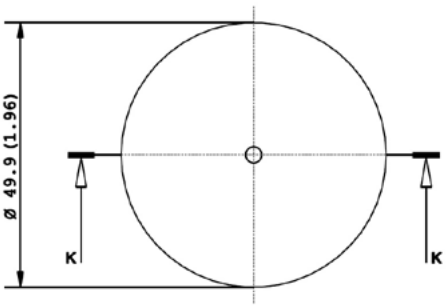
AURORA50/NA01 - Narrow Beam - Black Holder

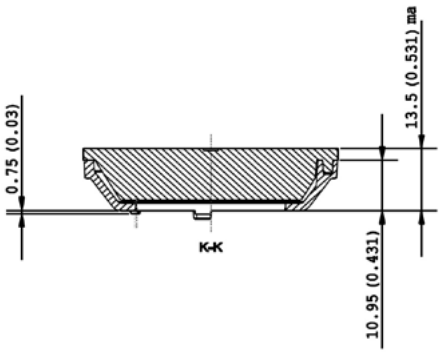






Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC BLACK	• Full angle at 50% from maximum: ~ 10° • Full angle at 10% from maximum: ~ 20°	The light spots here represented refer to tests carried out with COBs 4mm LES.

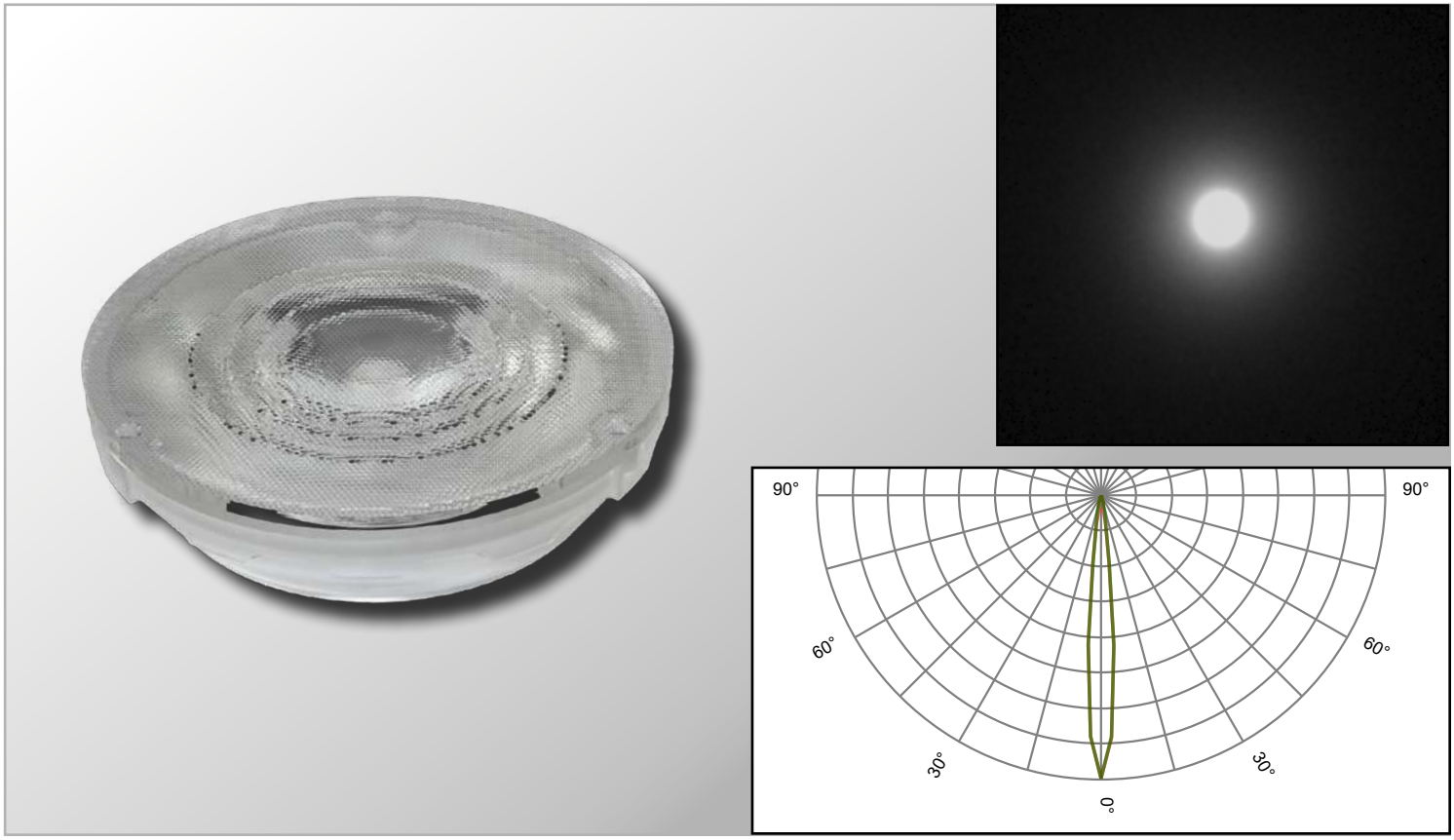




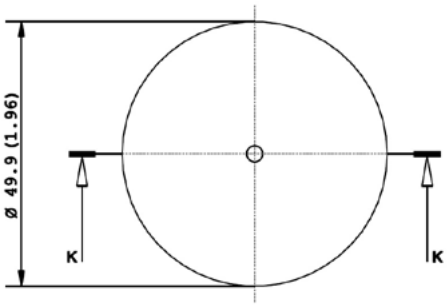
Each element forming the final assembly will be supplied as a single part.
AURORA50/NA01 is composed of the following parts: 1 pc of PLAURORA50/NA + 1 pc of KEAURORA50/B/01 (Black Holder) which will be supplied unassembled.

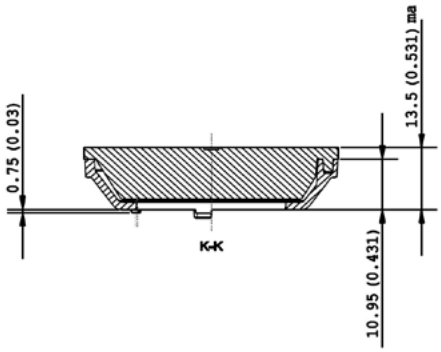
Technical Datasheet

AURORA50/NA02 - Narrow Beam - Clear Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC CLEAR	• Full angle at 50% from maximum: ~ 10° • Full angle at 10% from maximum: ~ 20°	The light spots here represented refer to tests carried out with COBs 4mm LES.

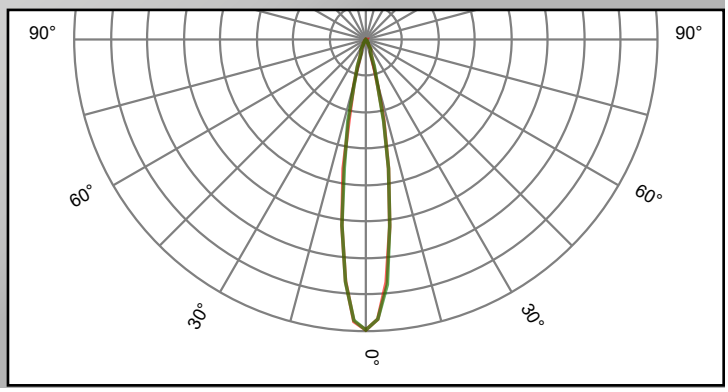




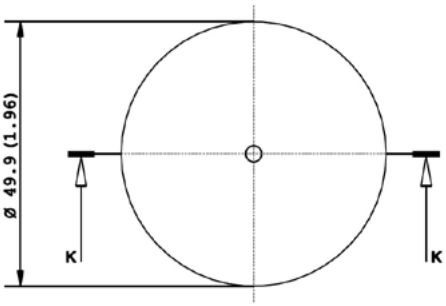
Each element forming the final assembly will be supplied as a single part.
AURORA50/NA02 is composed of the following parts: 1 pc of PLAURORA50/NA + 1 pc of KEAURORA50/B/02 (Clear Holder) which will be supplied unassembled.

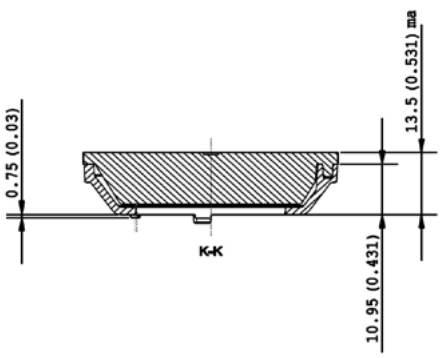
Technical Datasheet

AURORA50/ME - Medium Beam - White Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC WHITE	• Full angle at 50% from maximum: ~ 20° • Full angle at 10% from maximum: ~ 35°	The light spots here represented refer to tests carried out with COBs 9mm LES.

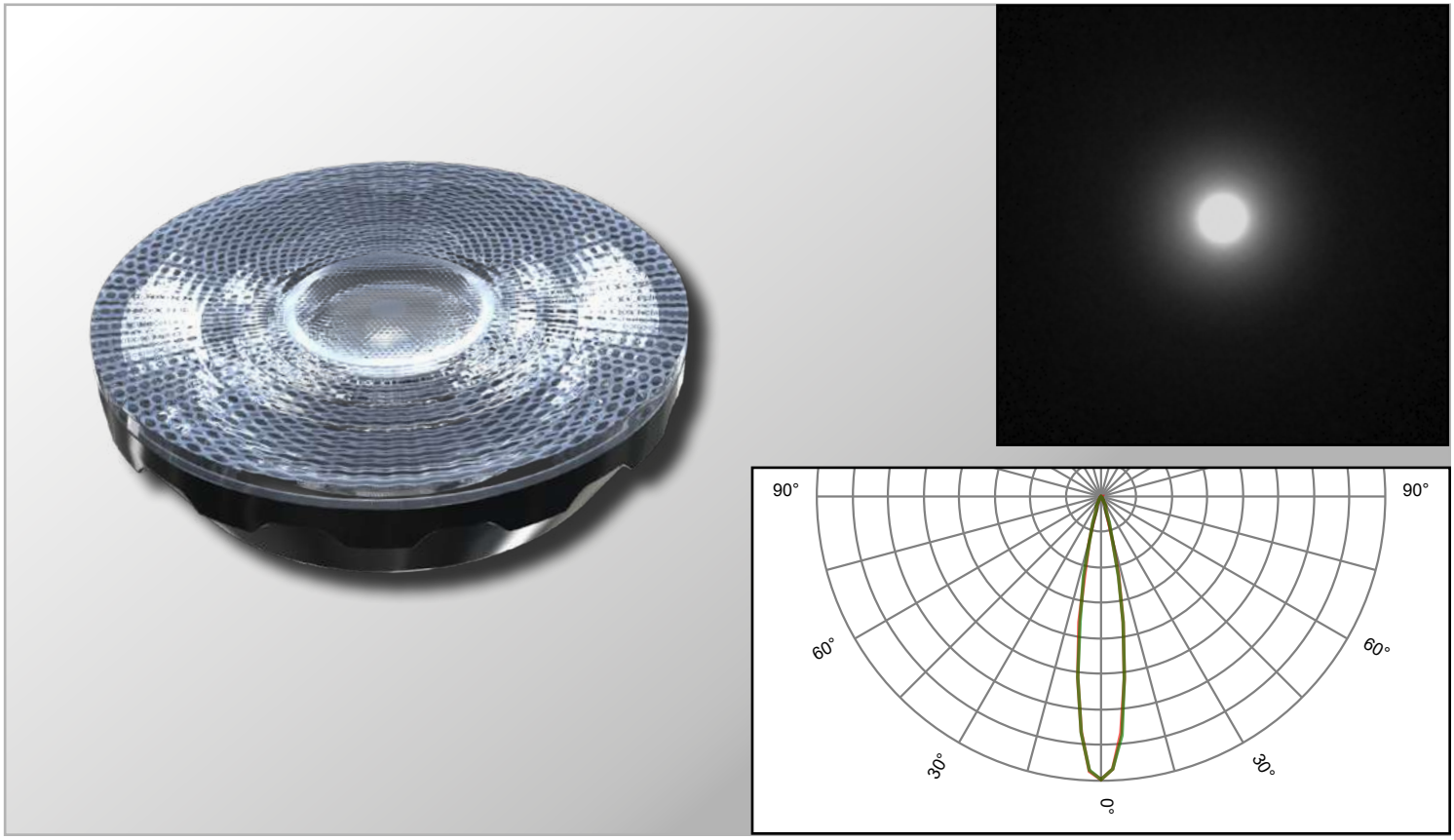




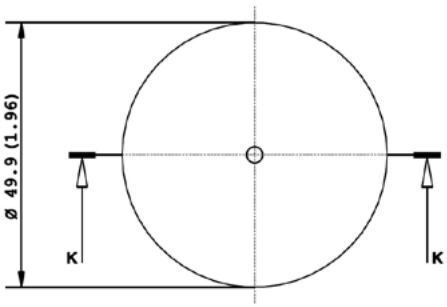
Each element forming the final assembly will be supplied as a single part.
AURORA50/ME is composed of the following parts: 1 pc of PLAURORA50/ME + 1 pc of KEAURORA50/B (White Holder) which will be supplied unassembled.

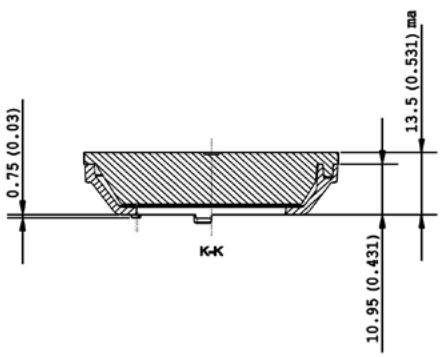
Technical Datasheet

AURORA50/ME01 - Medium Beam - Black Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC BLACK	• Full angle at 50% from maximum: ~ 20° • Full angle at 10% from maximum: ~ 35°	The light spots here represented refer to tests carried out with COBs 9mm LES.

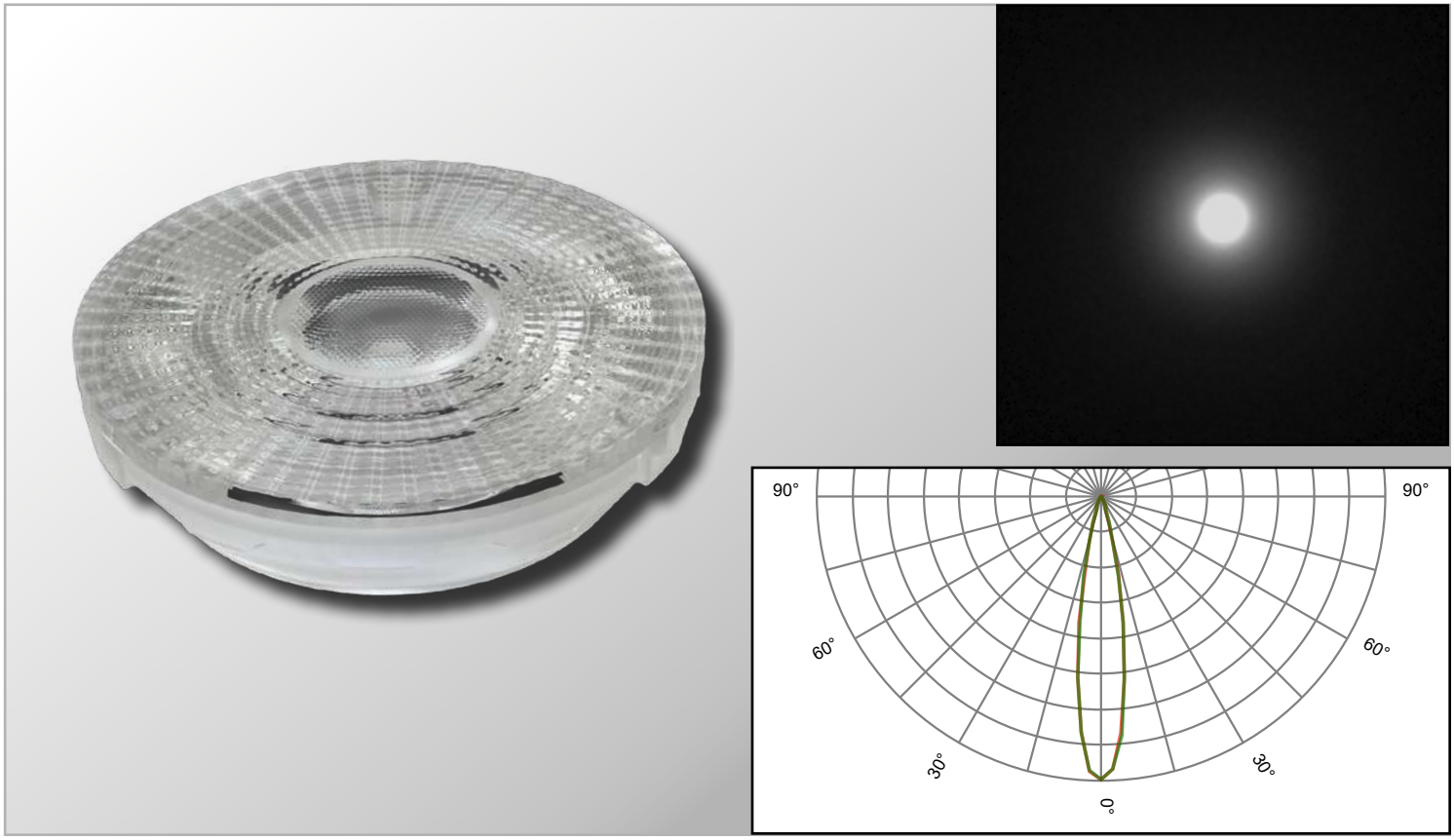




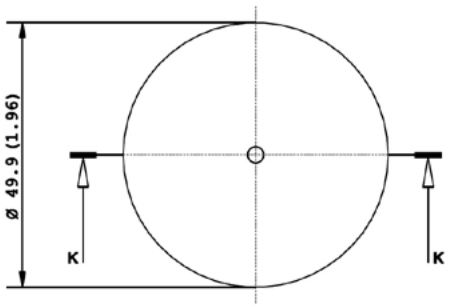
Each element forming the final assembly will be supplied as a single part.
AURORA50/ME01 is composed of the following parts: 1 pc of PLAURORA50/ME + 1 pc of KEAURORA50/B/01 (Black Holder) which will be supplied unassembled.

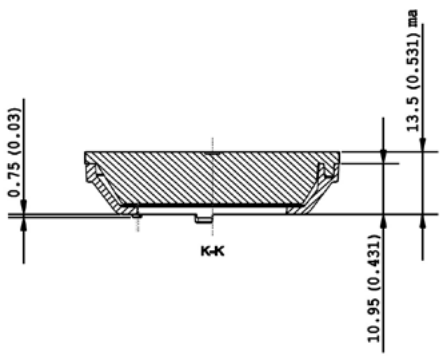
Technical Datasheet

AURORA50/ME02 - Medium Beam - Clear Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC CLEAR	• Full angle at 50% from maximum: ~ 20° • Full angle at 10% from maximum: ~ 35°	The light spots here represented refer to tests carried out with COBs 9mm LES.

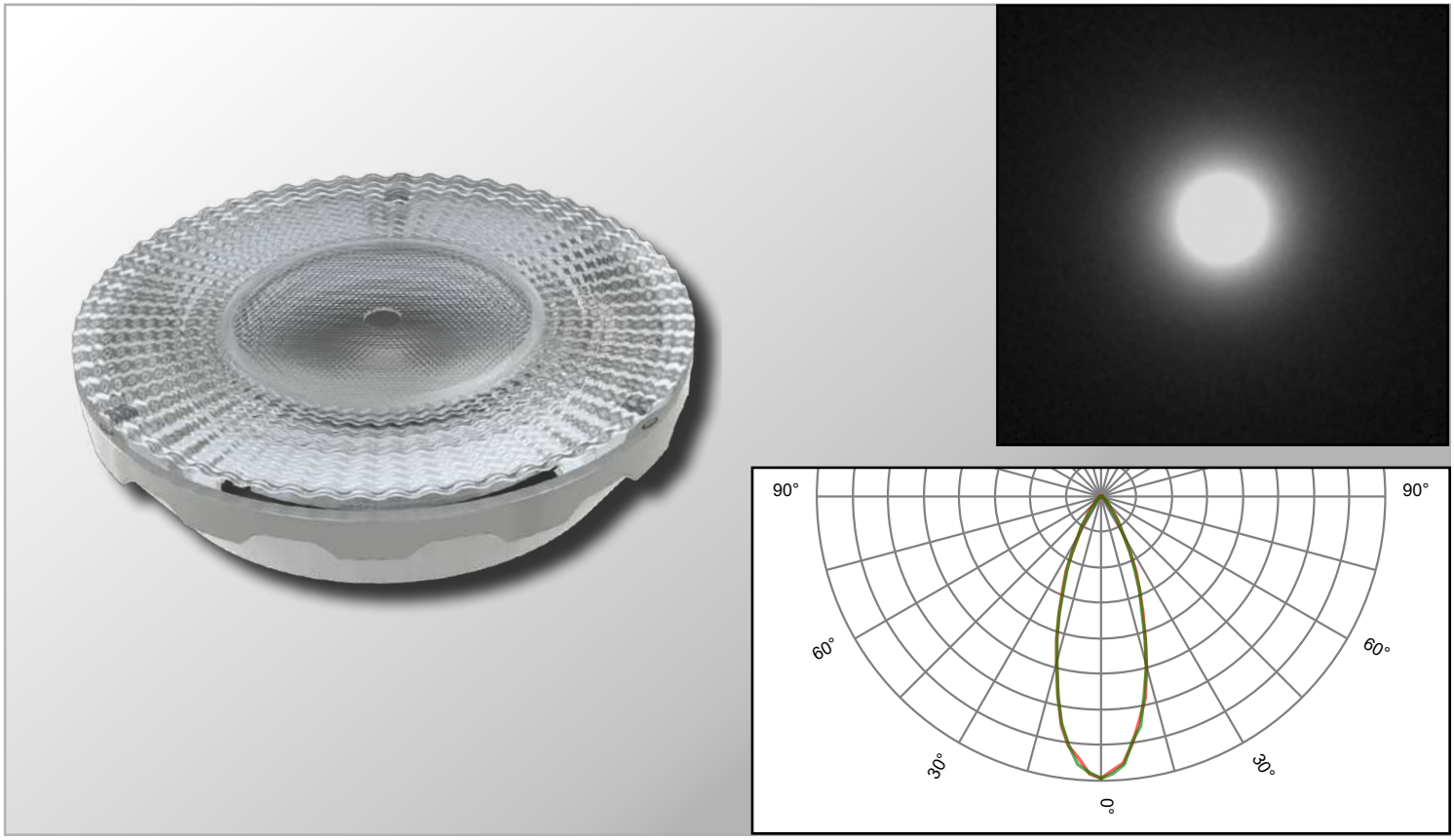




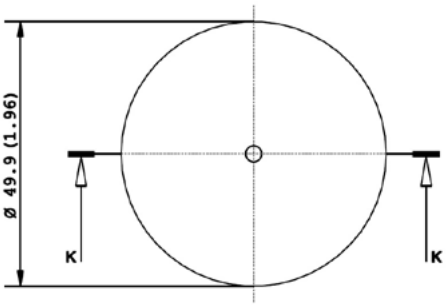
Each element forming the final assembly will be supplied as a single part.
AURORA50/ME02 is composed of the following parts: 1 pc of PLAURORA50/ME + 1 pc of KEAURORA50/B/02 (Clear Holder) which will be supplied unassembled.

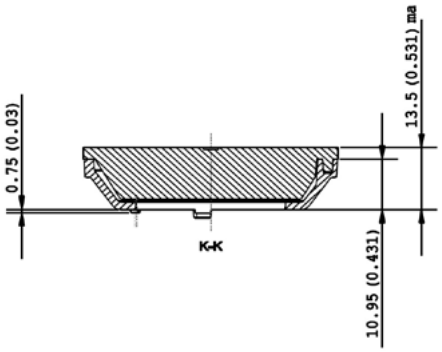
Technical Datasheet

AURORA50/WI - Wide Beam - White Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC WHITE	• Full angle at 50% from maximum: ~ 40° • Full angle at 10% from maximum: ~ 70°	The light spots here represented refer to tests carried out with COBs 9mm LES.

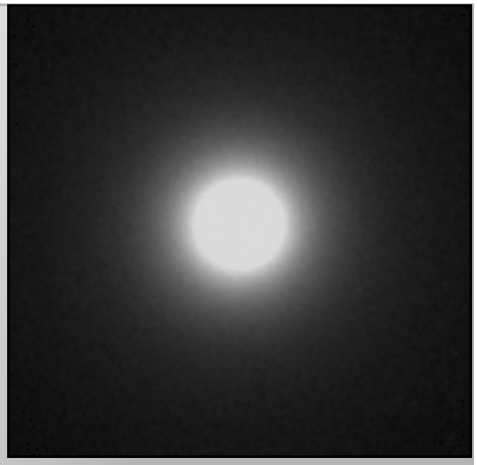


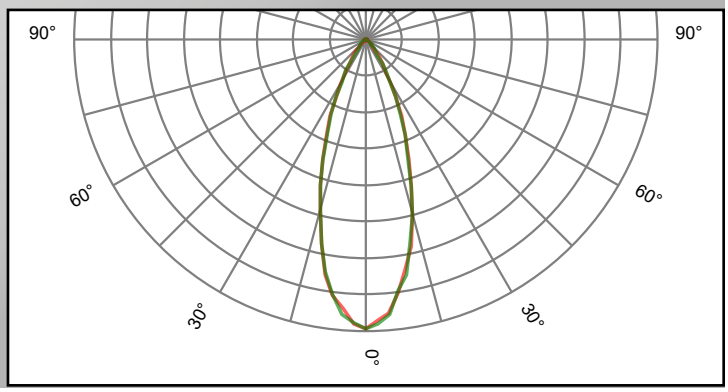


Each element forming the final assembly will be supplied as a single part.
AURORA50/WI is composed of the following parts: 1 pc of PLAURORA50/WI + 1 pc of KEAURORA50/B (White Holder) which will be supplied unassembled.

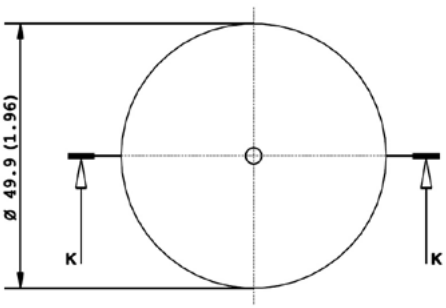
Technical Datasheet

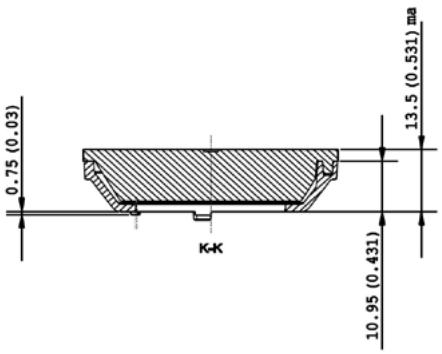
AURORA50/WI01 - Wide Beam - Black Holder





Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC BLACK	• Full angle at 50% from maximum: ~ 40° • Full angle at 10% from maximum: ~ 70°	The light spots here represented refer to tests carried out with COBs 9mm LES.

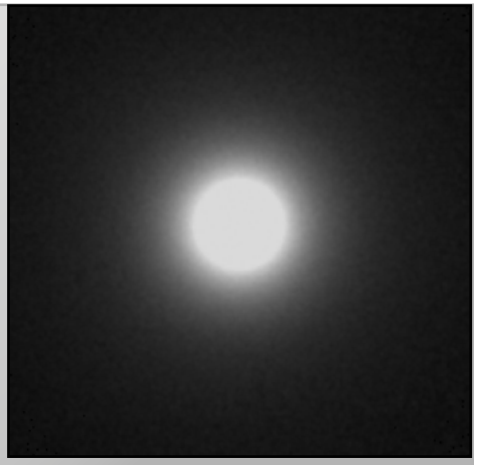


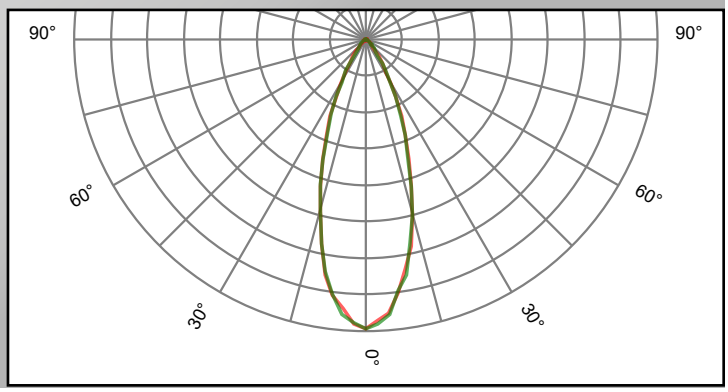


Each element forming the final assembly will be supplied as a single part.
AURORA50/WI01 is composed of the following parts: 1 pc of PLAURORA50/WI + 1 pc of KEAURORA50/B/01 (Black Holder) which will be supplied unassembled.

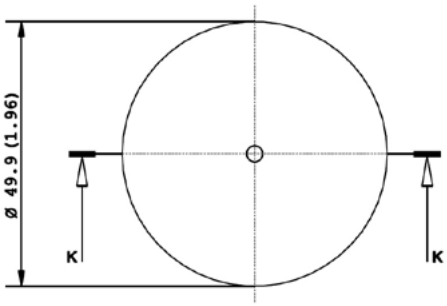
Technical Datasheet

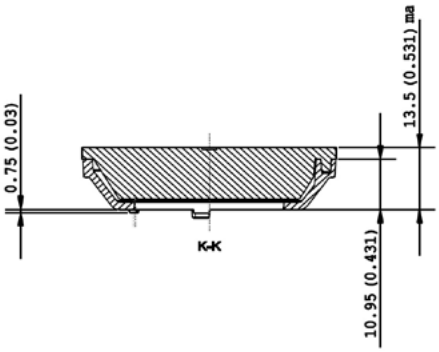
AURORA50/WI02 - Wide Beam - Clear Holder





Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC CLEAR	• Full angle at 50% from maximum: ~ 40° • Full angle at 10% from maximum: ~ 70°	The light spots here represented refer to tests carried out with COBs 9mm LES.

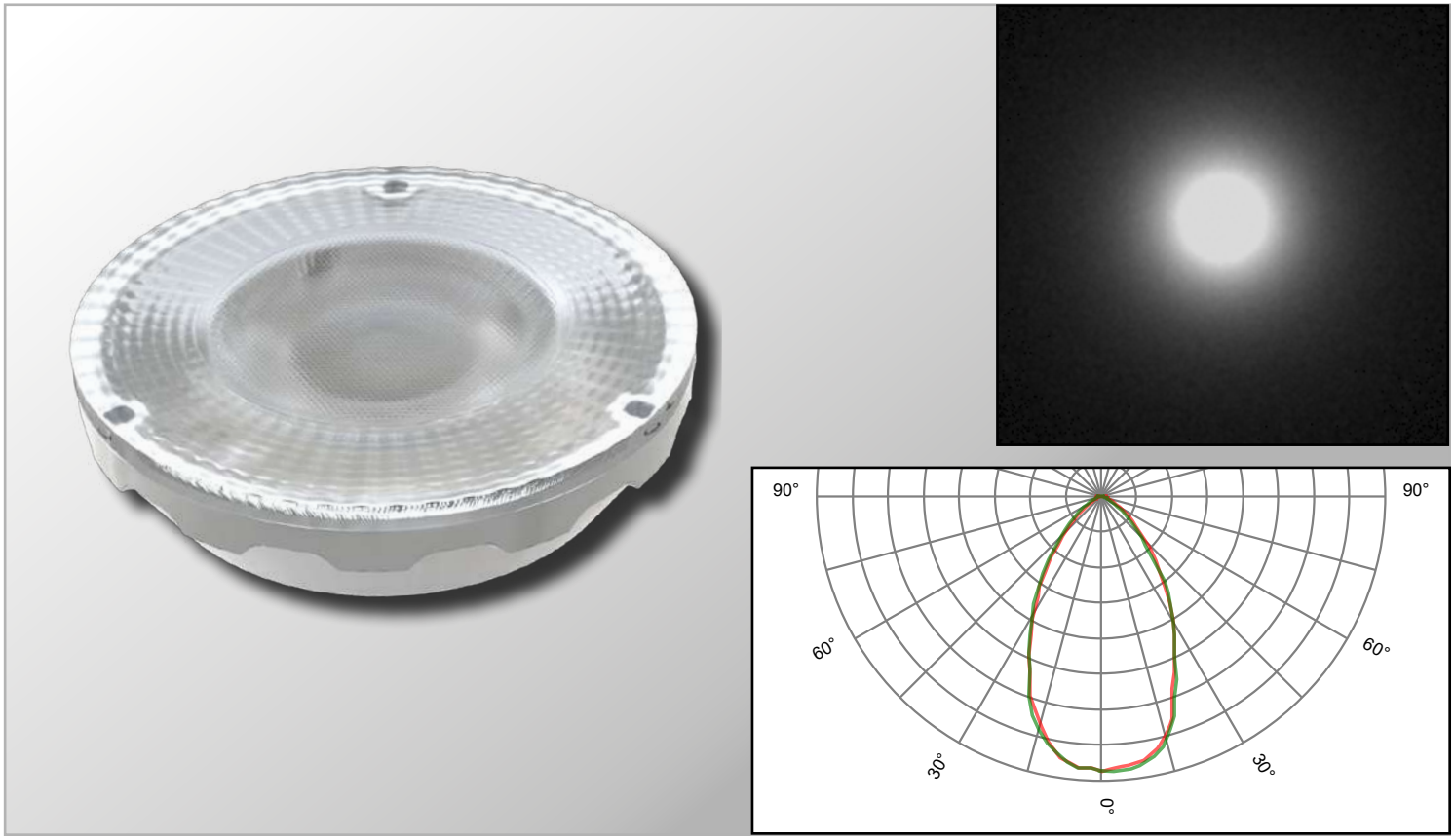




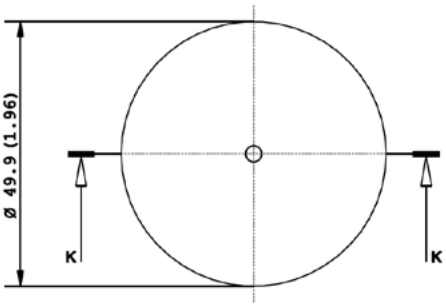
Each element forming the final assembly will be supplied as a single part.
AURORA50/WI02 is composed of the following parts: 1 pc of PLAURORA50/WI + 1 pc of KEAURORA50/B/02 (Clear Holder) which will be supplied unassembled.

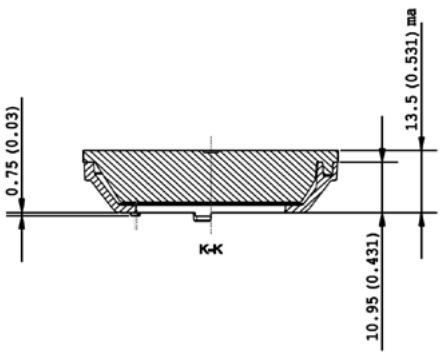
Technical Datasheet

AURORA50/EW - Extra Wide Beam - White Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC WHITE	• Full angle at 50% from maximum: ~ 55° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.

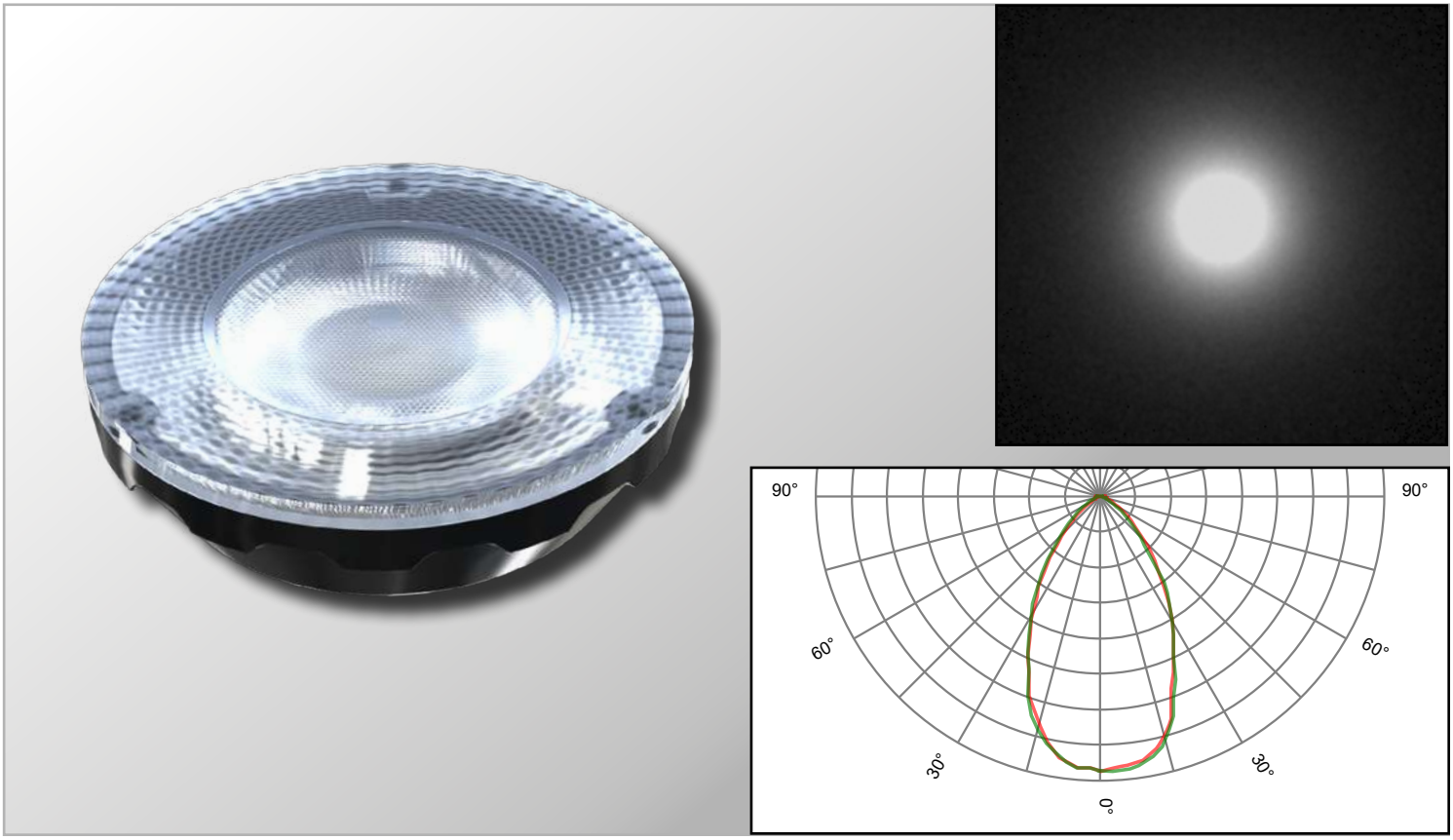




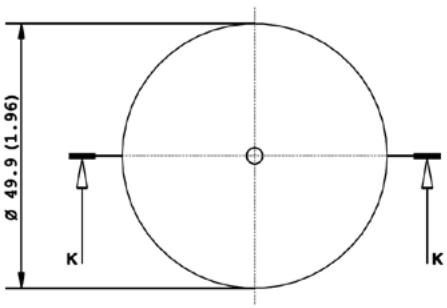
Each element forming the final assembly will be supplied as a single part.
AURORA50/EW is composed of the following parts: 1 pc of PLAURORA50/EW + 1 pc of KEAURORA50/B (White Holder) which will be supplied unassembled.

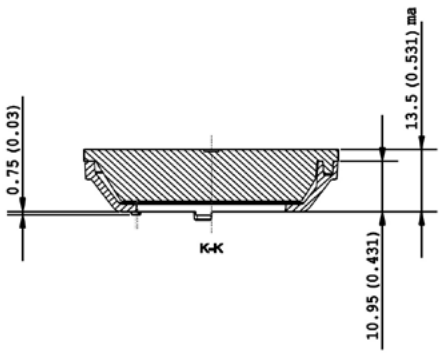
Technical Datasheet

AURORA50/EW01 - Extra Wide Beam - Black Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC BLACK	• Full angle at 50% from maximum: ~ 55° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.

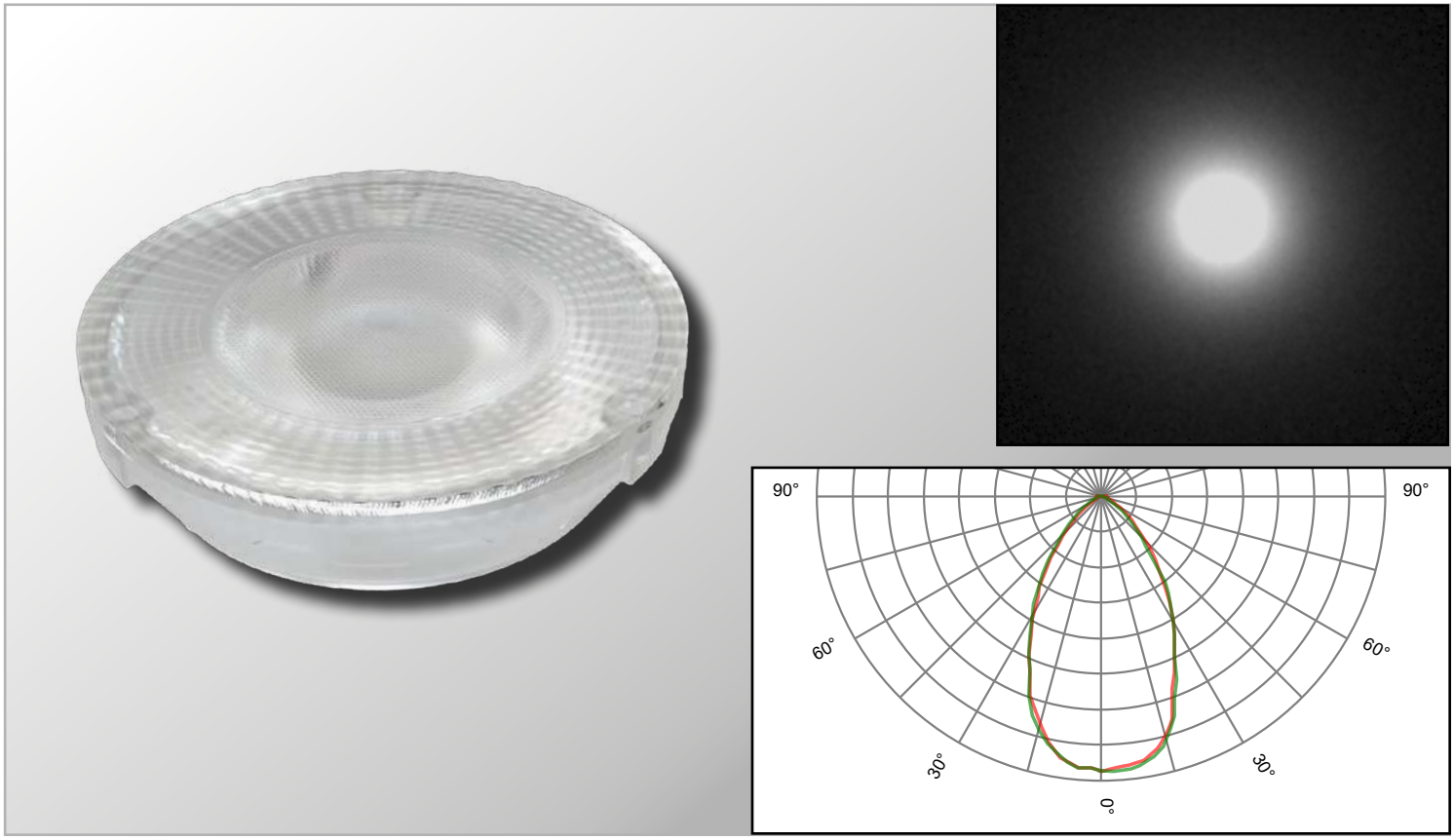




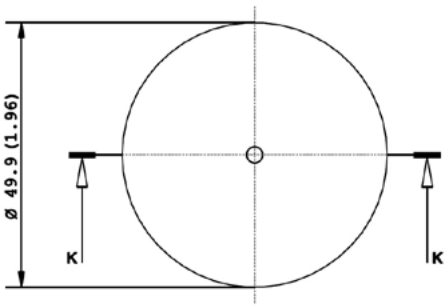
Each element forming the final assembly will be supplied as a single part.
AURORA50/EW01 is composed of the following parts: 1 pc of PLAURORA50/EW + 1 pc of KEAURORA50/B/01 (Black Holder) which will be supplied unassembled.

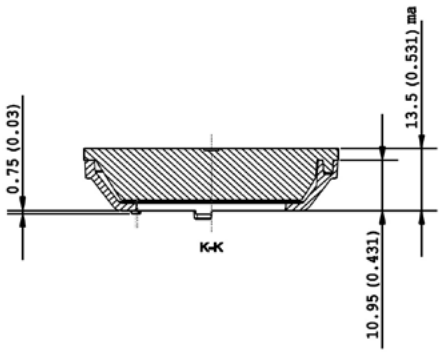
Technical Datasheet

AURORA50/EW02 - Extra Wide Beam - Clear Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC CLEAR	• Full angle at 50% from maximum: ~ 55° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.

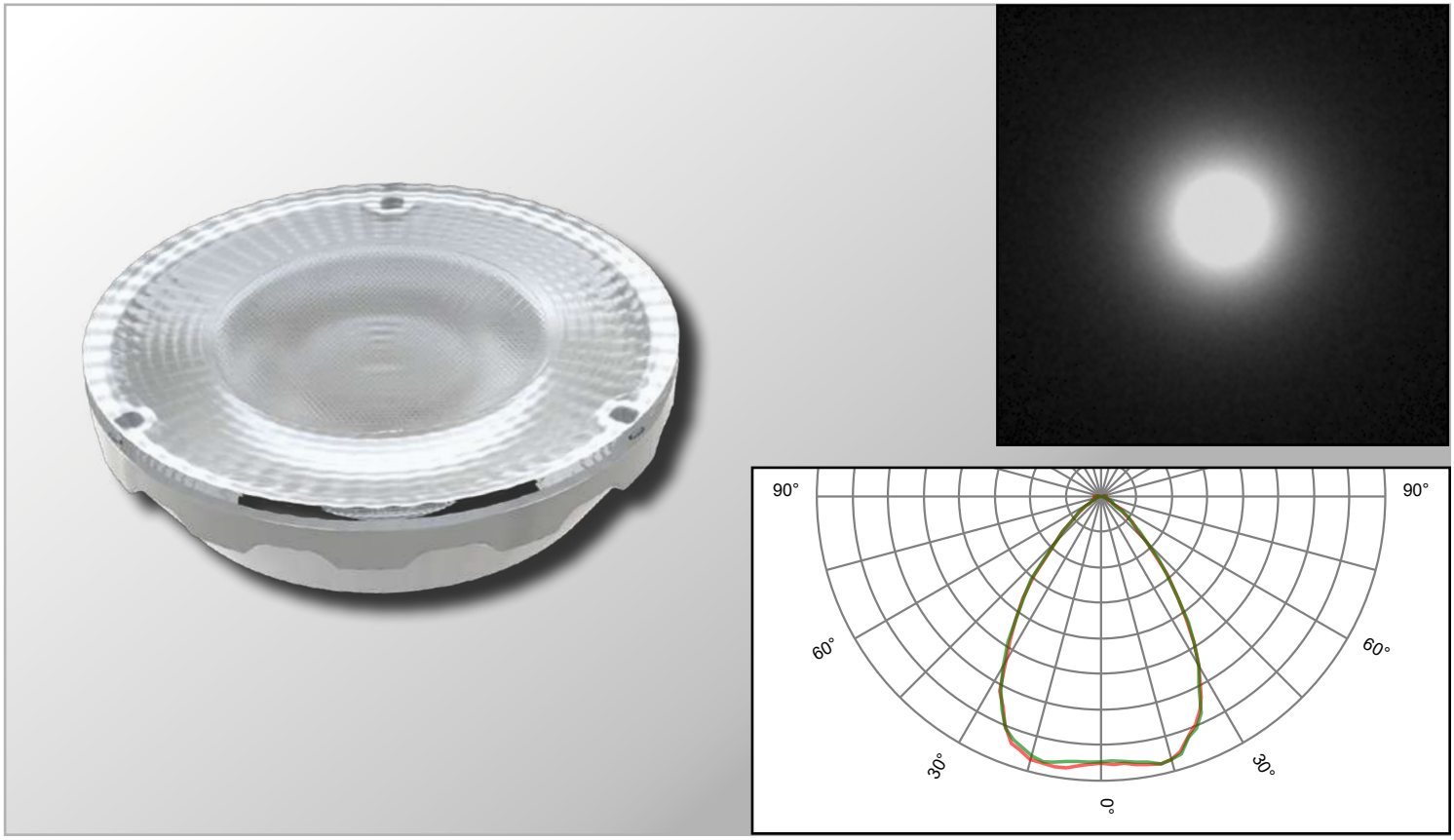




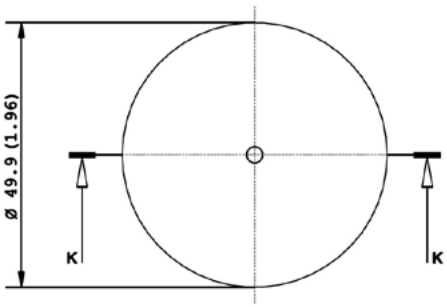
Each element forming the final assembly will be supplied as a single part.
AURORA50/EW02 is composed of the following parts: 1 pc of PLAURORA50/EW + 1 pc of KEAURORA50/B/02 (Clear Holder) which will be supplied unassembled.

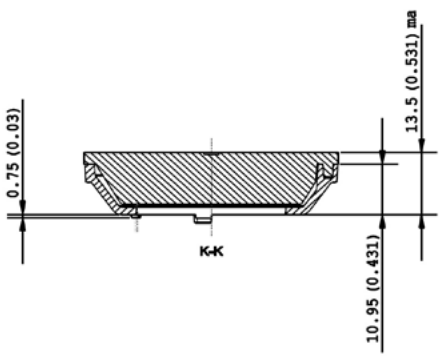
Technical Datasheet

AURORA50/UW - Ultra Wide Beam - White Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC WHITE	• Full angle at 50% from maximum: ~ 70° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.

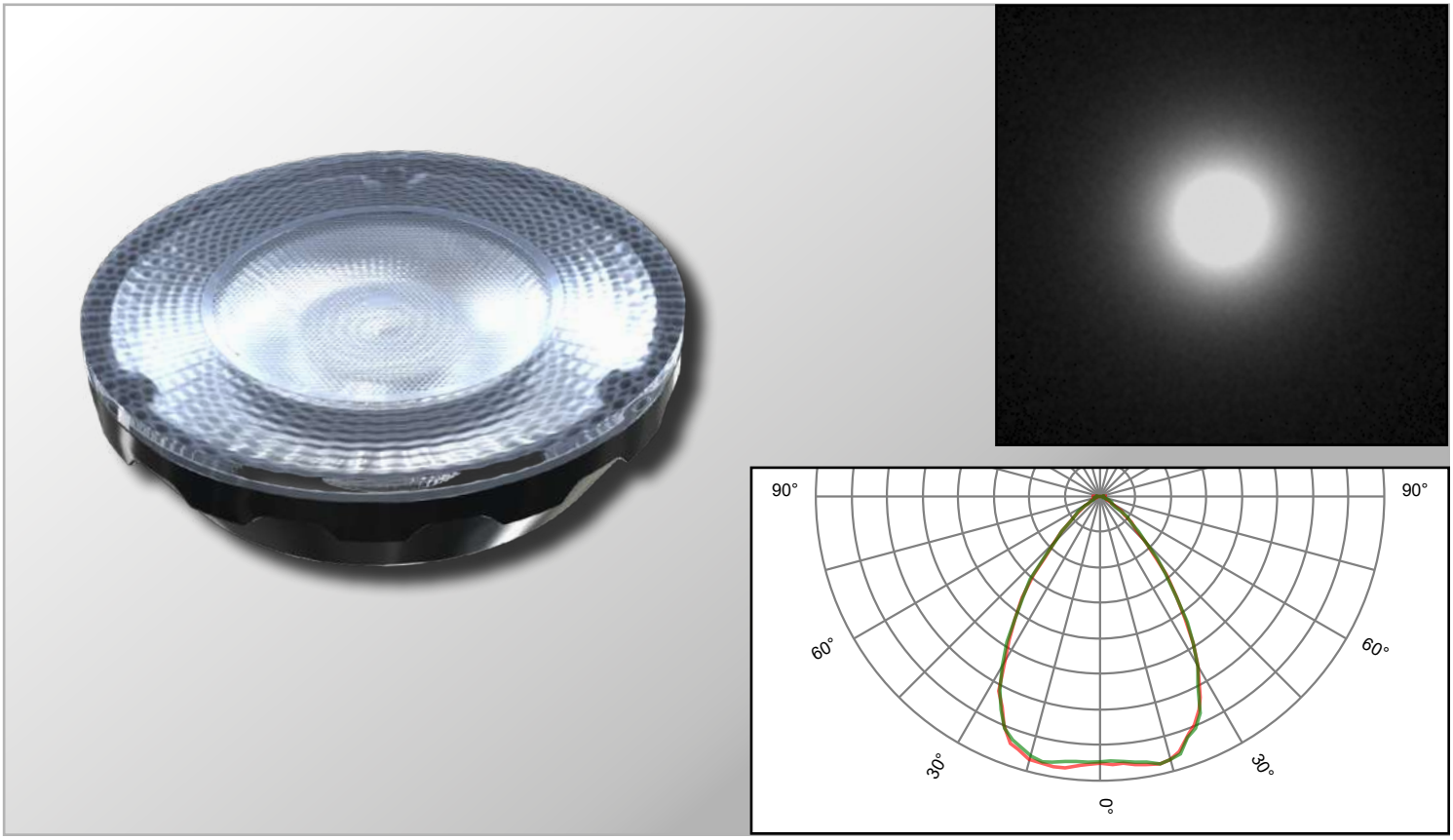




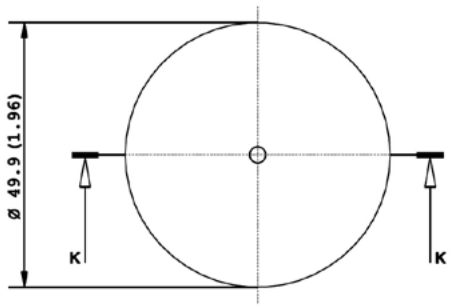
Each element forming the final assembly will be supplied as a single part.
AURORA50/UW is composed of the following parts: 1 pc of PLAURORA50/UW + 1 pc of KEAURORA50/B (White Holder) which will be supplied unassembled.

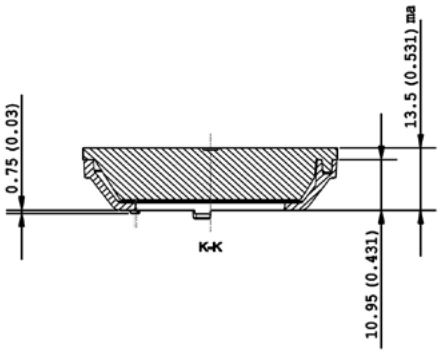
Technical Datasheet

AURORA50/UW01 - Ultra Wide Beam - Black Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC BLACK	• Full angle at 50% from maximum: ~ 70° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.

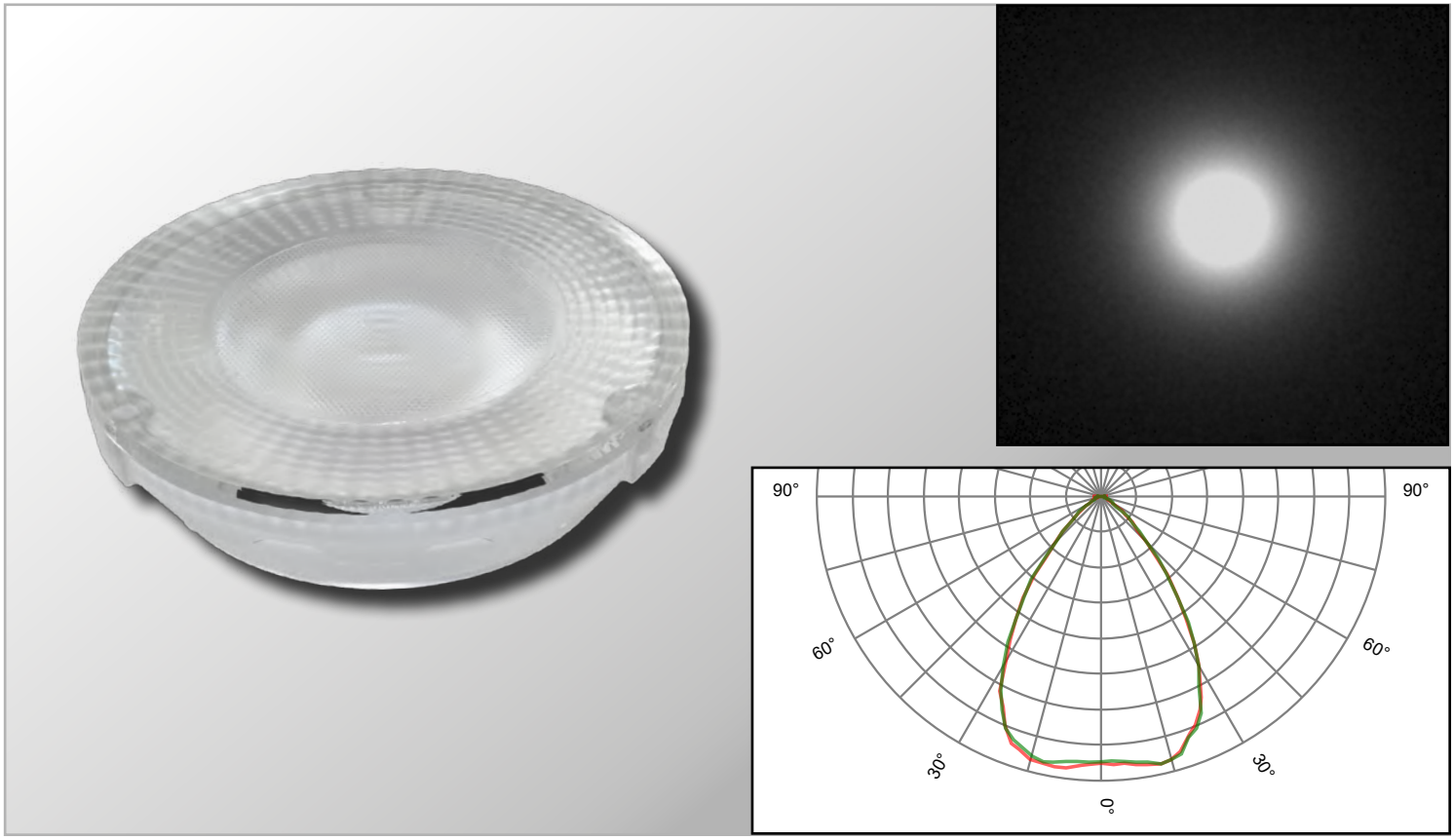




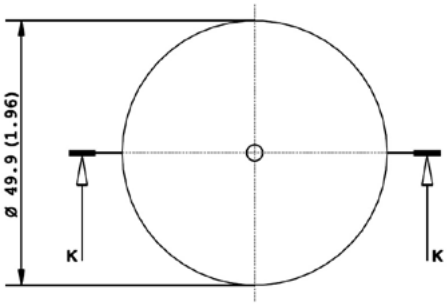
Each element forming the final assembly will be supplied as a single part.
AURORA50/UW01 is composed of the following parts: 1 pc of PLAURORA50/UW + 1 pc of KEAURORA50/B/01 (Black Holder) which will be supplied unassembled.

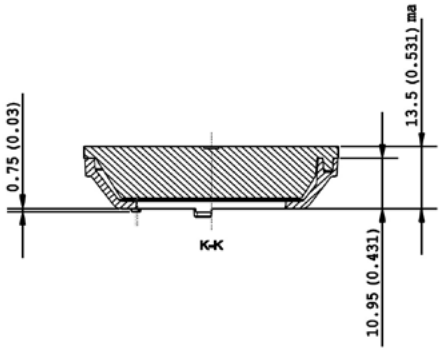
Technical Datasheet

AURORA50/UW02 - Ultra Wide Beam - Clear Holder



Dimensions	Material	Beams	LED
49.90mm diameter- 13.50mm height	Lens: PMMA Holder: PC CLEAR	• Full angle at 50% from maximum: ~ 70° • Full angle at 10% from maximum: ~ 100°	The light spots here represented refer to tests carried out with COBs 9mm LES.





Each element forming the final assembly will be supplied as a single part.
AURORA50/UW02 is composed of the following parts: 1 pc of PLAURORA50/UW + 1 pc of KEAURORA50/B/02 (Clear Holder) which will be supplied unassembled.

Technical Datasheet

KITAURORA/50

Sample Kit available with:

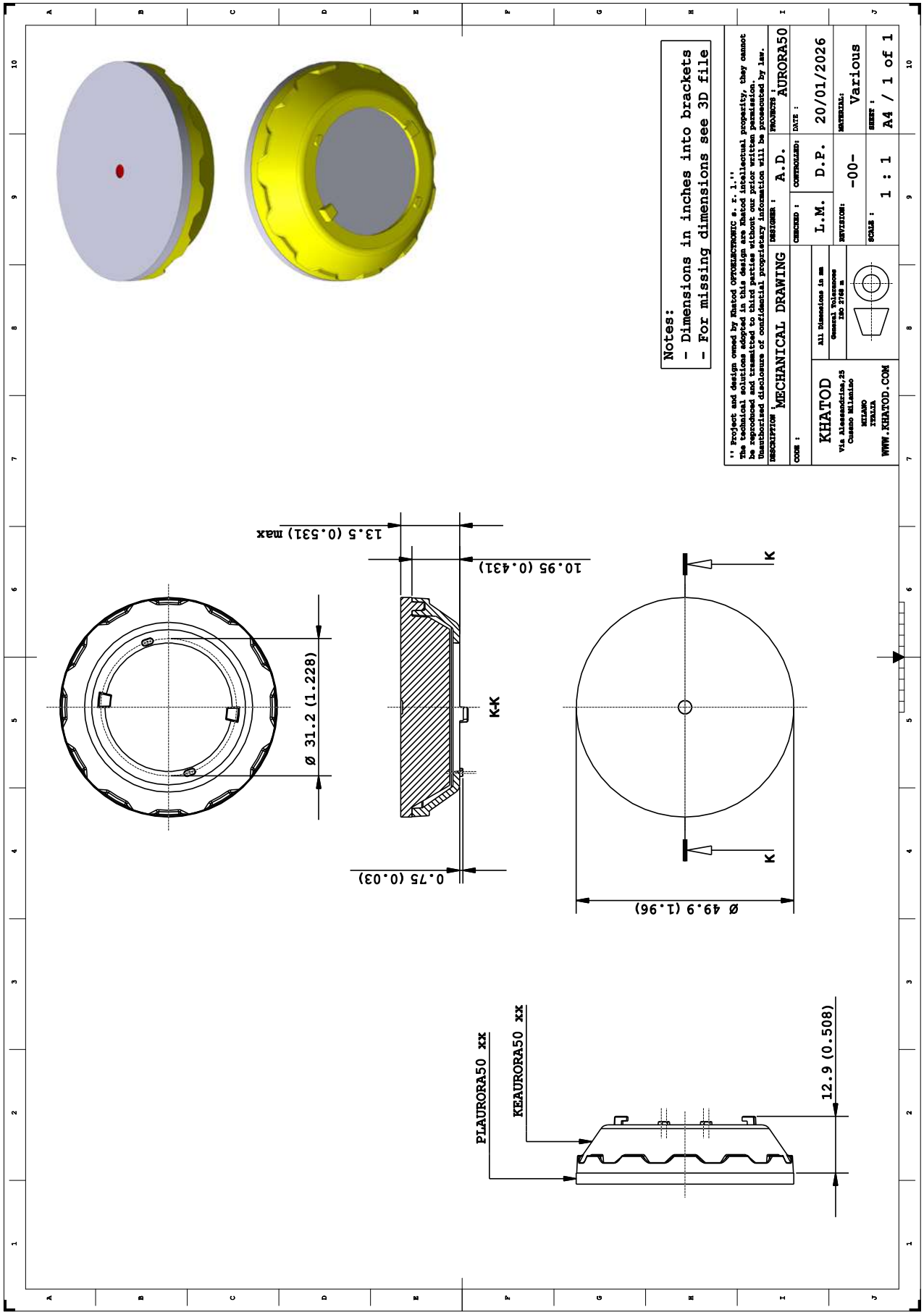
- Luminus CXM-9 COB.
- Green Gems connector system.
- Tridonic Driver.
- AURORA50/NA: 50mm diameter, Narrow Beam.
- AURORA50/ME01: 50mm diameter, Medium Beam.
- AURORA50/WI02: 50mm diameter, Wide Beam.
- AURORA50/EW: 50mm diameter, Extra Wide Beam.
- AURORA50/UW01: 50mm diameter, Ultra Wide Beam.

Powered by:

Green Gems GmbH

Tridonic GmbH & Co KG

Mechanical Drawing



Materials

Material	Temperatures
PMMA	**-40° / + 90°C**
• Temperature resistance: long-term exposure	-40° / + 85°C
• Temperature resistance: short exposure	up to + 90°C

Notes:

- The optical values shown are the result of optical simulations carried out with LIGHTOOLS, 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 WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- 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
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