

GCAL LG350450045

Carat Weight	2.59
Color	E
Clarity	VVS1
Cut	8X

Certificate No	GCAL LG350450045
Identification	Lab Grown Diamond
Shape and Cutting Style	Pear Brilliant
Measurements	12.39 x 7.62 x 4.66mm
Fluorescence	None
Girdle	Sl.Thick to Thick, Faceted
Culet	None
Inscription	LAB GROWN, GCAL  LG350450045
Growth Method	CVD

Gem Certification & Assurance Lab has examined this lab grown diamond and certifies that the specifications noted in this document are accurate within recognized gemological tolerances. GCAL is an independent third-party and stands behind our grading with a 4Cs Consumer Guarantee. The guarantee, grading scales and all images unique to this lab grown diamond are available at GCALUSA.com.



580 Fifth Ave LL-05,
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ANAB L2177-1 Accredited Testing Lab

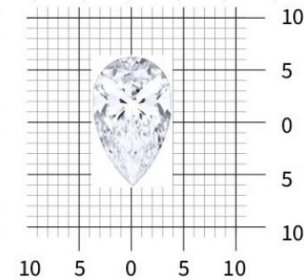
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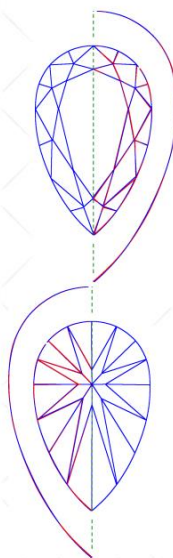
Actual Size



Measurements in
millimeters (mm)



Upper Girdle, Lower Girdle



is the overall return of white light to the viewer. It is measured to the thousandth decimal place and is represented in this image. The white areas indicate light return / brilliance, and the dark-blue areas indicate light loss.

results when white light travels through a diamond and is dispersed into its rainbow of spectral colors. These flashes of color contribute to sparkle and are best viewed as the diamond moves.

is the flashes of white light, or sparkle, produced when light is reflected from a diamond as it moves. This image shows the light returned from a single beam of light when your lab grown diamond is rotated in nine positions.

is visualized in this photograph of your lab grown diamond taken in a specific colored lighting environment. The evenness of the pattern illustrates the precision and uniformity of facet shapes and alignment.

The outline and axis symmetry of every 8X® pear diamond is assessed to confirm that the stone possesses an elegant teardrop-shaped silhouette with minimal shoulder bulge, and even sides that extend from curved head to pointed tip. The axis symmetry images shown here are part of this assessment.

The dark area of blocked light return sometimes seen under the table of pear shaped diamonds is known as a “bowtie.” The cutting parameters are designed to minimize this effect, with each stone evaluated to confirm a minimal bowtie, and ample light return throughout.



1. Polish

P Poor	F Fair	G Good	VG Very Good	EX Excellent
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2. External Symmetry

P Poor	F Fair	G Good	VG Very Good	EX Excellent
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3. Proportions

P Poor	F Fair	G Good	VG Very Good	EX Excellent
-----------	-----------	-----------	-----------------	-----------------
4. Optical Brilliance

P Poor	F Fair	G Good	VG Very Good	EX Excellent
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5. Fire

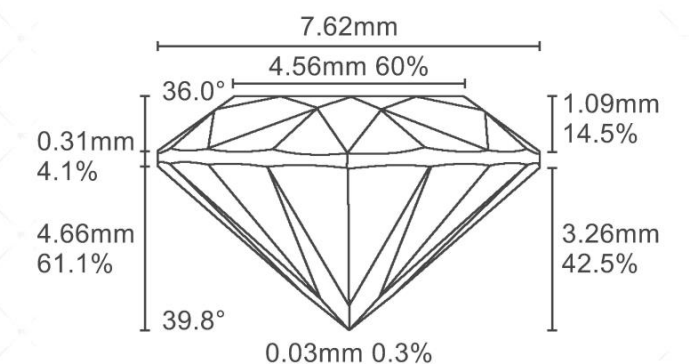
P Poor	F Fair	G Good	VG Very Good	EX Excellent
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6. Scintillation

P Poor	F Fair	G Good	VG Very Good	EX Excellent
-----------	-----------	-----------	-----------------	-----------------
7. Optical Symmetry

P Poor	F Fair	G Good	VG Very Good	EX Excellent
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8. Shape Aesthetics

P Poor	F Fair	G Good	VG Very Good	EX Excellent
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Optical scanning technology measures each facet and angle to produce an accurate, to-scale diagram of this lab grown diamond.



DIAMOND SHAPES



CARAT WEIGHT SIZES

Carat Weight	3.00	2.50	2.00	1.50	1.00	0.75	0.50	0.25
Approx. Size								
Diameter	9.20mm	8.60mm	8.00mm	7.30mm	6.40mm	5.80mm	5.10mm	4.10mm

DIAMOND CLARITY GRADING SCALE

FL	IF	VVS1	VVS2	VS1	VS2	S11	S12	I1	I2	I3
FLAWLESS - INTERNALLY FL.		VERY VERY SLIGHTLY INCLUDED		VERY SLIGHTLY INCLUDED		SLIGHTLY INCLUDED		INCLUDED / PIQUE		

DIAMOND COLOR GRADING SCALE



DIAMOND FLUORESCENCE GRADING SCALE



DIAMOND POLISH & SYMMETRY GRADING SCALE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
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BRILLIANT CUT DIAGRAM



BUY WITH
CONFIDENCE

GCAL’S 4Cs GRADING GUARANTEE

The GCAL (Gem Certification & Assurance Lab) philosophy is simple. We believe consumers should feel confident about their diamond purchase, in the same way we believe experts should be accountable and stand behind their work.

This is why your lab grown diamond is protected by a zero tolerance, money-backed grading guarantee. You should be aware, and proud of the fact that GCAL is the only diamond grading lab in the world that fully guarantees the accuracy of its grading. If the carat weight, or any of the cut, color, or clarity grades provided in this GCAL Guaranteed Certificate prove to be of less weight or lower quality, GCAL will reimburse you the difference between what you paid and the current, fair retail value in the market level where you purchased it, of a lab grown diamond with the newly-established grades. For full details of the GCAL Consumer Guarantee, visit GCALUSA.com

GCAL’S MISSION STATEMENT

To provide the most accurate and consistent gemological grading, with uncompromising integrity and unparalleled customer service.

GEMPRINT®

Having a traceable, unique “fingerprint” of your lab grown diamond adds future protection to your investment, as well as peace of mind. GCAL records the distinctive Gemprint of every diamond we certify. This patented technology for positive identification is recognized worldwide as forensic evidence and identification. Register your lab grown diamond at GEMPRINT.com

CERTIFICATE VERIFICATION

You can verify the authenticity of this certificate by entering your GCAL Certificate number at GCALUSA.com. You can view the high resolution photographs and videos of your lab grown diamond from this certificate, and download a complimentary digital copy of this document to send to your insurance company.

ISO 17025 ACCREDITATION

We believe challenging ourselves leads to better performance. That's why our methods and procedures are independently audited annually, ensuring we uphold the standards of the ISO 17025 Forensic Laboratory Accreditation. In fact, GCAL is the only ISO 17025 Forensic Accredited Gem Lab in the world!

ONE LOCATION. ONE STANDARD. GRADED IN THE USA



GUARANTEED
CERTIFICATE

LAB GROWN DIAMOND

Independently Graded and Guaranteed by GCAL
ISO 17025 Accredited Forensic Laboratory



8X™ is the highest achievement in precision diamond cutting. The **GCAL 8X™** Ultimate Diamond Cut Grading System encompasses all aspects of diamond CUT quality assessment. Your lab grown diamond has achieved grades of Excellent in all eight aspects of CUT quality assessment. As a result, this lab grown diamond is recognized for its extraordinary brilliance and beauty.

PHYSICAL EXCELLENCE

The first three of the 8X grading factors analyze the exactness of the Physical surface, the facet shapes, as well as the angles. This includes the Polish, External Symmetry and Proportions.

Decades of meticulous mathematical calculations have determined the narrow proportion ranges required to produce superior cut diamonds. Each shape has been studied individually to find the most aesthetically pleasing parameters. Some of the factors considered are listed below.

To view the proportion specifications for each shape, please visit our website GCALUSA.com

Table %	Lower Girdle Facet Length
Depth %	Star Length
Crown Angle/Height	Girdle Thickness
Pavilion Angle/Height	Culet Size

LIGHT PERFORMANCE EXCELLENCE

The next three of the 8X grading factors are Brilliance, Fire, and Scintillation, which analyze the light handling ability of your lab grown diamond. The combination of these factors is the essence of what makes any diamond visibly shine, dance and sparkle from across a room. Fire and Scintillation are graded while the diamond is in motion and interacting with light. View the Fire and Scintillation videos of this lab grown diamond at GCALUSA.com or by scanning the QR code on this certificate.

OPTICAL EXCELLENCE

The last two 8X grading factors consider optical excellence. These factors scrutinize the craftsmanship, the precise alignment of the crown and pavilion facets, the shape outline, and the length-width ratio, ensuring the lab grown diamond achieves aesthetic perfection.

Grading scales for each of the 8X grading factors can be viewed at GCALUSA.com