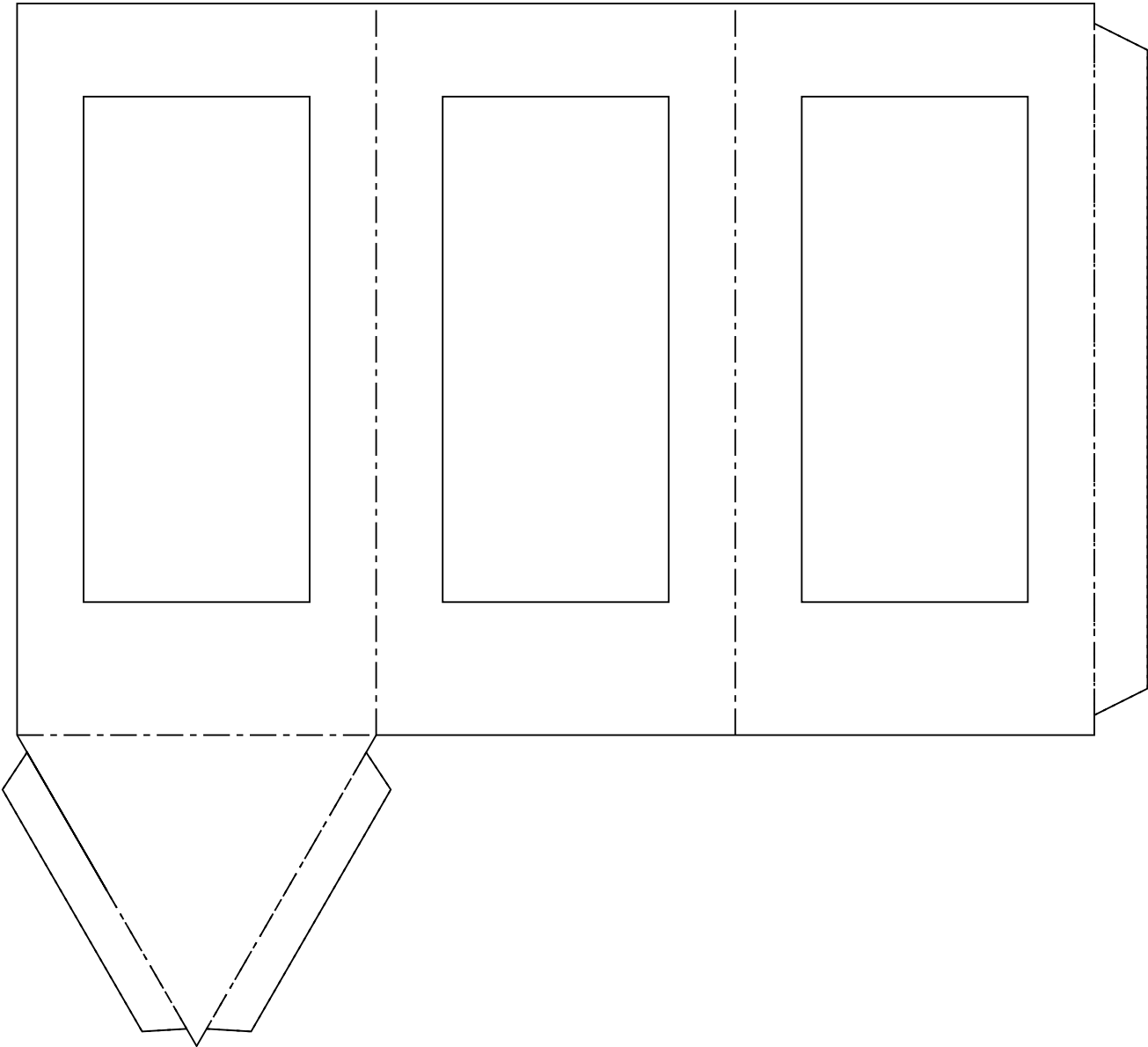


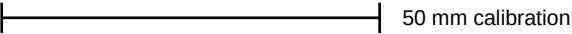
Triangular Lantern - LED ONLY

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P1 | cut 1
172.20 x 156.77 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Triangular Lantern - LED ONLY

triangular-lantern / 1.0.0 / Letter / Assembly instructions

Finished size: 54 x 46.77 x 110 mm (equilateral 54 mm sides)

Materials: 180-220 gsm cardstock; Scissors; Craft knife and cutting mat (adult use); Ruler and blunt scoring tool; PVA craft glue; Small cool-running battery LED, maximum 26 mm diameter x 30 mm high

LED ONLY. Never use a candle, flame, incense or hot lamp inside this paper lantern.

Original one-piece net: three 34 x 76 mm cut-out windows; 10 mm side rails, 20 mm bottom rails and 14 mm top rails. The top stays completely open.

Exact piecewise-rigid net and 3D correspondence, including every tab. Paper thickness and glue films are not simulated; glued surfaces coincide in 3D.

Use as a tabletop decoration, not a hanging lantern. LED is a purchased accessory and is not shown as paper geometry. No window film or hidden supports required.

Physical printing, cutting, folding, seam fit and LED stability remain pending. The step viewer shows final part placement, not continuous folding.

Part inventory (cut each instance once):

P1: Window frame with floor and tabs

1. Check scale and identify the net [P1]: Print at 100% actual size. Measure the 50 mm ruler before cutting. P1 has three 54 x 110 mm wall panels in a row, a triangular floor below the left panel, two 6 mm floor tabs, and an 8 mm seam tab at the far right.
2. Score and cut [P1]: On a mat, lightly score all six dash-dot fold lines with a ruler and blunt tool. Cut out the three 34 x 76 mm window holes first, then the outer perimeter. Keep the narrow rails and every tab intact; do not cut fold lines.
3. Pre-fold with print outside [P1]: Keep the printed face on the outside of the finished lantern. Mountain-fold the two full-height wall creases 120 degrees from flat, leaving 60-degree interior corners. Fold the right seam tab another 120 degrees from its wall so it will lie behind the leftmost panel. Do not glue yet.
4. Form the integral floor [P1]: Fold the triangular floor inward 90 degrees from its wall; its printed face will point down. Fold both 6 mm floor tabs up 90 degrees from the floor, with printed glue faces pointing outward toward the walls. Dry-fit all three walls around the 54 mm floor edges.
5. Glue the floor tabs [P1]: Open the side seam for access. Spread a thin film of PVA on the printed faces of both floor tabs. Wrap the middle and right walls around them; align wall bottom edges flush with the floor. Press each tab against the inside of its 20 mm bottom rail, using a fingertip through a window. Hold 60 seconds or until the glue grips; keep the floor level.
6. Close the vertical seam [P1]: Apply PVA to the printed face of the 8 mm seam tab. Tuck it behind the free left edge of the first wall: the full overlap stays inside its 10 mm side rail. Match the top and bottom edges to make a 110 mm tall prism. Pinch through the adjacent windows until set. Leave upright for 30 minutes or the glue maker's full drying time, whichever is longer.
7. Insert LED through the open top [P1]: LED ONLY - never flame. Use a cool-running battery LED no larger than 26 mm diameter and 30 mm high; a normal 38 mm tealight will not fit. The triangular opening has a 31.18 mm inscribed circle before paper thickness. Switch the LED on outside, lower it through the open top, and center it on the floor. Retrieve through the top, using a window to guide it if needed. Keep upright on a flat surface and lift by the base, not the window rails.