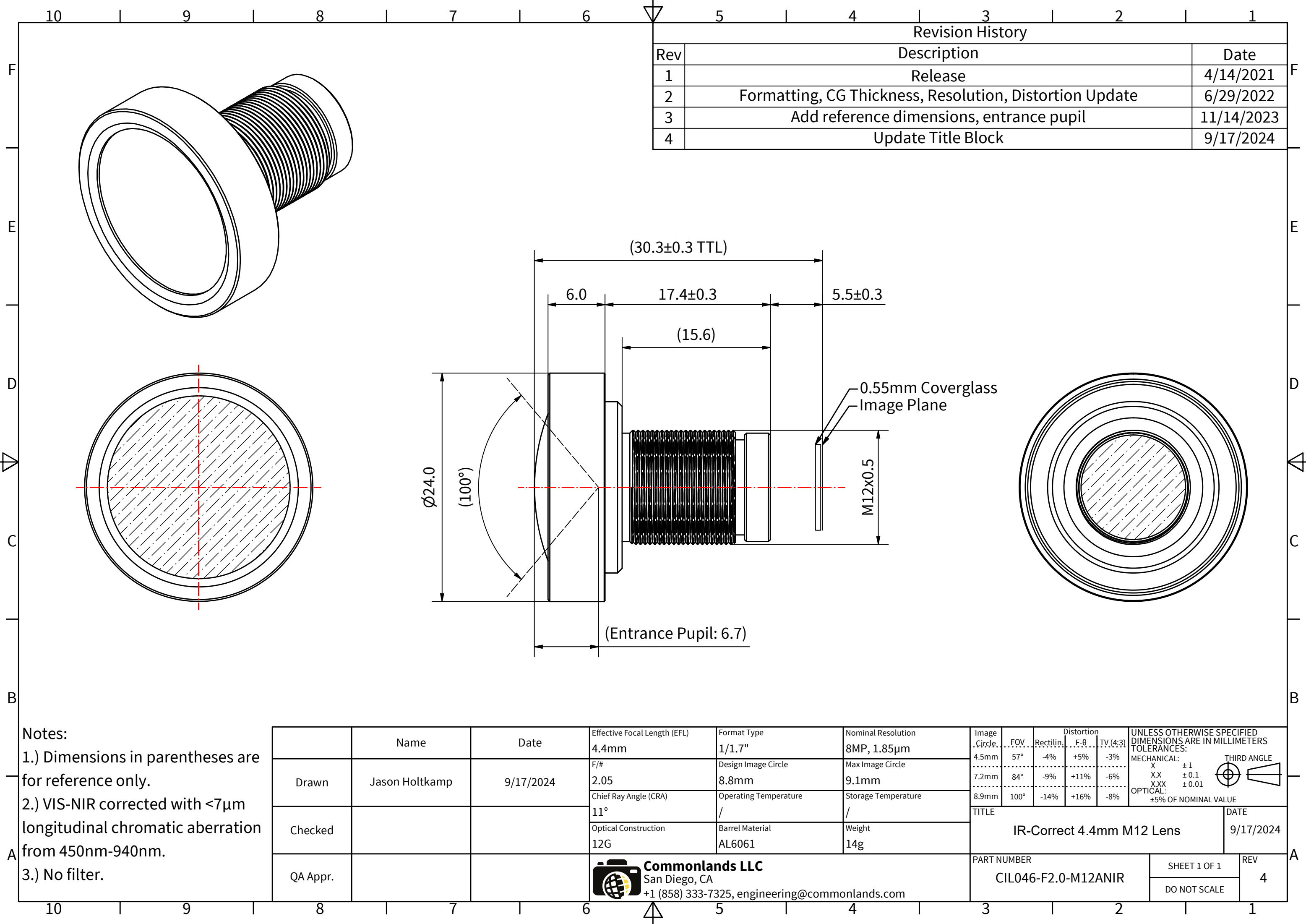




| Revision History |                                                         |            |
|------------------|---------------------------------------------------------|------------|
| Rev              | Description                                             | Date       |
| 1                | Release                                                 | 4/14/2021  |
| 2                | Formatting, CG Thickness, Resolution, Distortion Update | 6/29/2022  |
| 3                | Add reference dimensions, entrance pupil                | 11/14/2023 |
| 4                | Update Title Block                                      | 9/17/2024  |

Notes:

- 1.) Dimensions in parentheses are for reference only.
- 2.) VIS-NIR corrected with <7µm longitudinal chromatic aberration from 450nm-940nm.
- 3.) No filter.

|          |                |           |                                                                                                                                                                                 |                              |                                   |                                        |            |                  |                          |                 |                                                                                                                                                                    |  |              |
|----------|----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------------|------------|------------------|--------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|
|          | Name           | Date      | Effective Focal Length (EFL)<br>4.4mm                                                                                                                                           | Format Type<br>1/1.7"        | Nominal Resolution<br>8MP, 1.85µm | Image Circle<br>4.5mm                  | FOV<br>57° | Rectilin.<br>-4% | Distortion<br>F-θ<br>+5% | TV (4:3)<br>-3% | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN MILLIMETERS<br>TOLERANCES:<br>MECHANICAL:<br>X ± 1<br>X.X ± 0.1<br>X.XX ± 0.01<br>OPTICAL:<br>±5% OF NOMINAL VALUE |  |              |
| Drawn    | Jason Holtkamp | 9/17/2024 | F/#<br>2.05                                                                                                                                                                     | Design Image Circle<br>8.8mm | Max Image Circle<br>9.1mm         | 7.2mm                                  | 84°        | -9%              | +11%                     | -6%             | THIRD ANGLE<br>                                                               |  |              |
| Checked  |                |           | Chief Ray Angle (CRA)<br>11°                                                                                                                                                    | Operating Temperature<br>/   | Storage Temperature<br>/          | TITLE<br><br>IR-Correct 4.4mm M12 Lens |            |                  |                          |                 | DATE<br><br>9/17/2024                                                                                                                                              |  |              |
|          |                |           | Optical Construction<br>12G                                                                                                                                                     | Barrel Material<br>AL6061    | Weight<br>14g                     |                                        |            |                  |                          |                 |                                                                                                                                                                    |  |              |
| QA Appr. |                |           |  <b>Commonlands LLC</b><br>San Diego, CA<br>+1 (858) 333-7325, engineering@commonlands.com |                              |                                   | PART NUMBER<br><br>CIL046-F2.0-M12ANIR |            |                  |                          |                 | SHEET 1 OF 1                                                                                                                                                       |  | REV<br><br>4 |
|          |                |           |                                                                                                                                                                                 |                              |                                   |                                        |            |                  |                          |                 | DO NOT SCALE                                                                                                                                                       |  |              |