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AREAL Test Facility for Advanced Accelerator and Radiation Sources Concepts

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Advanced Research Electron Accelerator Laboratory (AREAL) is a 20 MeV electron linear accelerator with laser driven RF gun being constructed in the CANDLE institute. Along with applications in life and material sciences, it aims to serve as a test facility for experimental study in the fields of novel accelerator technology and radiation sources. The construction of the 5 MeV RF photogun section of the facility is completed, which provides up to 300 pC bunch charge with variable electron bunch length from 0.4 to 8 psec. The review of the facility performance and main parameters is given. The experimental program on advanced accelerator concepts and new radiation sources is discussed.

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