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**NEDO Project Leads to a High-Efficiency LED Lamp with Ultra High Intensity and Ultra High Flux**

- The new lamp saves at least 53% more energy compared to HID lamps -

As part of a project conducted under the auspices of the New Energy and Industrial Technology Development Organization (NEDO), Shikoku Instrumentation Co., Ltd., in collaboration with STEQ and Kagoshima University, has developed a high color rendering type LED lamp with ultra high intensity and ultra high flux, with a color rendering index (CRI) score of over 80. The new lamp achieves the world’s highest rated luminous flux level for a single flat light source of 63,200lm to 68,000lm. Improvements in LED chip integration and heat dissipation have led to an energy efficient, ultra high flux lamp with a long service life.

A LED flood light achieves the same illuminance as existing high-intensity discharge lamps (HID lamps) while reducing energy consumption by 53%.

![LED lamp (Flood light model)](image1)
![LED lamp (High bay light model)](image2)
![High output COB module](image3)

**Chart 1. Newly Developed LED Lamp and Chip on Board (COB) Module**
Chart 2. Comparison of Energy Consumption under Identical Illuminance Conditions

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