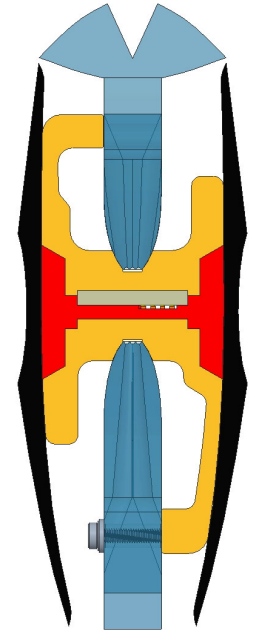


QuarkStar - Nichia

Project Tango: Partnering Light with Space

Based on QuarkStar's high-efficiency optical technology Edge-X™ coupled to an innovative solid-state lighting source Surface Mounted Filaments™ – created using materials from our L-Prize partner Nichia – Project Tango is able to overcome compromises and trade-offs that have previously hampered lighting systems.



Innovations for the L-Prize

- A networked white-tunable luminaire based on QuarkStar's Edge-X™ optics
- Edge-X™ is compact with 96% optical efficiency and light distributions with class-defining uniformity & shaping
- SMF (Surface Mounted Filament™) is a new low-etendue LED source optimally matched to Edge-X optics
- SMF is more thermally efficient than other LED packages while also optimizing Color Rendition (P1,F3)
- Edge-X & SMFs combined = smallest size system solution with optimized etendue & minimized current densities
- Edge-X & SMFs combined = best lumen and chromaticity point maintenance; highest lumen & color lifetimes