



Light Source Information Leaflet

GENERAL

Type	Gaseous Tritium Light Source
Product name	Firefly Super Tritium Glowing - Blue
Light generation process	Radioluminescence of ZnS:Ag
Application areas	Self-powered, illuminated marker for marking equipment in low light conditions
Primary energy	Nuclear fission of Tritium (${}^3\text{T} \rightarrow {}^3_2\text{He}^+ + \text{e}^- + \bar{\nu}_e$)

OPTICAL PROPERTIES

Emission maxima	450 nm ($\Delta \pm 2.76$ eV)
Centroid wavelength	461 nm ($\Delta \pm 2.68$ eV)
Full width @ half emission maximum	57 nm
Lumen equivalent	75 lm/W _{opt}
CIE1931 chromaticity coordinates (x, y)	0.150, 0.073
Color rendering index (R _a)	N/A
Correlated color temperature	>100000 K

PHYSICAL PROPERTIES

Input Power	N/A
Luminous efficacy	N/A
Half-Life	12.32 years
Decay energy (β^- -emission)	0.018590 MeV

