Laser-Driven Light Sources (LDLS)

The Laser-Driven Light Sources or LDLS is an innovative light source developed by Energetiq Technology inc. in the US, which is a subsidiary of Hamamatsu Photonics K.K. LDLS is the only light source in the world that utilizes a focused laser beam to generate and maintain plasma between the discharge electrodes in the xenon gas filled bulb.

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Selection guide

	EQ-99X-QZ-S	EQ-99X-FC-S	EQ-77-QZ-S	EQ-400-RH-QZ-S
Features	Standard model	Fiber-coupled model	High brightness model	Highest brightness model
Optical interface	Diverging beam	Fiber coupled output	Diverging beam (with retroreflector)	Diverging beam (with retroreflector)
Plasma size (µm)	100 x 180	100 x 180	125 x 320	370 x 800
Numerical aperture(NA)	0.47	0.22(Output fiber)	0.5	0.5
Laser class	Class 1	Class 1	Class 1	Class 4
Spectral radiance($mW/mm^2 \cdot sr \cdot nm$)	25	—	75	110
Broadband optical power	0.75 W	95 mW	2.75 W	15 W

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Cooling	No auxiliary cooling required	No auxiliary cooling required	Water cooling	Water cooling
Nitrogen purge	Recommended	Recommended	Required	Required

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