

100K SoftSun vs. HMI 18K

Luminys developed the SoftSun® product line to meet the need for a large, dimmable, daylight source of light. The wide beam of the 100K SoftSun® contributes to a tremendous spread from a single light source. In a quantitative comparison of published data for the 100K and the competing 18K HMI*, the obvious superiority of the 100K SoftSun® in terms of beam spread, resources, and overall value is evident.

*18K ArriMAX™

Beam Spread Comparison

Beam Angle

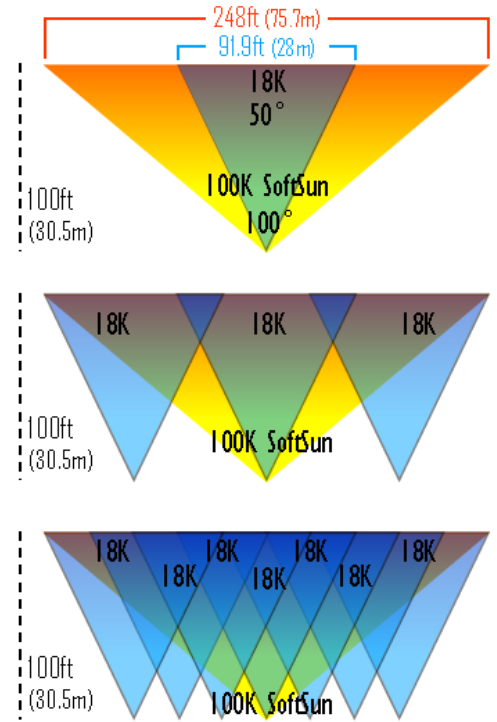
With a beam angle of 50° at 100 ft (30.5m), the horizontal spread of the ArriMAX™ is 91.9 ft (28m). With a beam angle of 100° at the same distance, the horizontal spread of a 100K SoftSun® is 248 ft (75.7m).

Beam Area

To cover the same area as a 100K SoftSun®, three ArriMAX™ 18K units are needed at a distance of 100 ft (30.5m).

Beam Intensity

To then achieve a uniform intensity equal to a **single 100K SoftSun®** set at full flood at a distance of 100ft (297 footcandles/3,197 lux), a total of seven ArriMAX™ units are needed (1 ArriMAX™ = 138.9 footcandles/1,495 lux/30.5m), taking into account the 50% falloff from the center beam. Additional diffusion on the 18Ks would be necessary to match the soft light of the SoftSun®, resulting in further loss of light from the 18K ArriMAX™ units.



Value Comparison

Rigging seven ArriMAX™ 18Ks requires five electricians to lay power, properly align each fixture, mount and support all related grip equipment. If mounted on cranes, additional labor is necessary to man the equipment in the basket.

A **100K SoftSun®** requires *only three electricians* to run power and mount the fixture. If mounted on a crane, *no additional labor* is needed in the basket due to the remote focus and dimmability of the **100K SoftSun®**.

Estimated Value Comparison		
Unit(s)	ArriMAX™ 18K = 7	100K SoftSun® = 1
Electricians/Labor	7+	3
Cable Run(s)	7	1
Diffusion	20' x 20' silk, frame, etc.	Optional
Support	7 stands or 3 cranes	2 stands or 1 crane

The **100K SoftSun®** is the only daylight source that offers the ability to dim from 100K down to 3K, with a change of less than 100° Kelvin throughout.

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