

FLEXSTAR

REDLINE SERIES

Flexstar's new generation LED grow light.



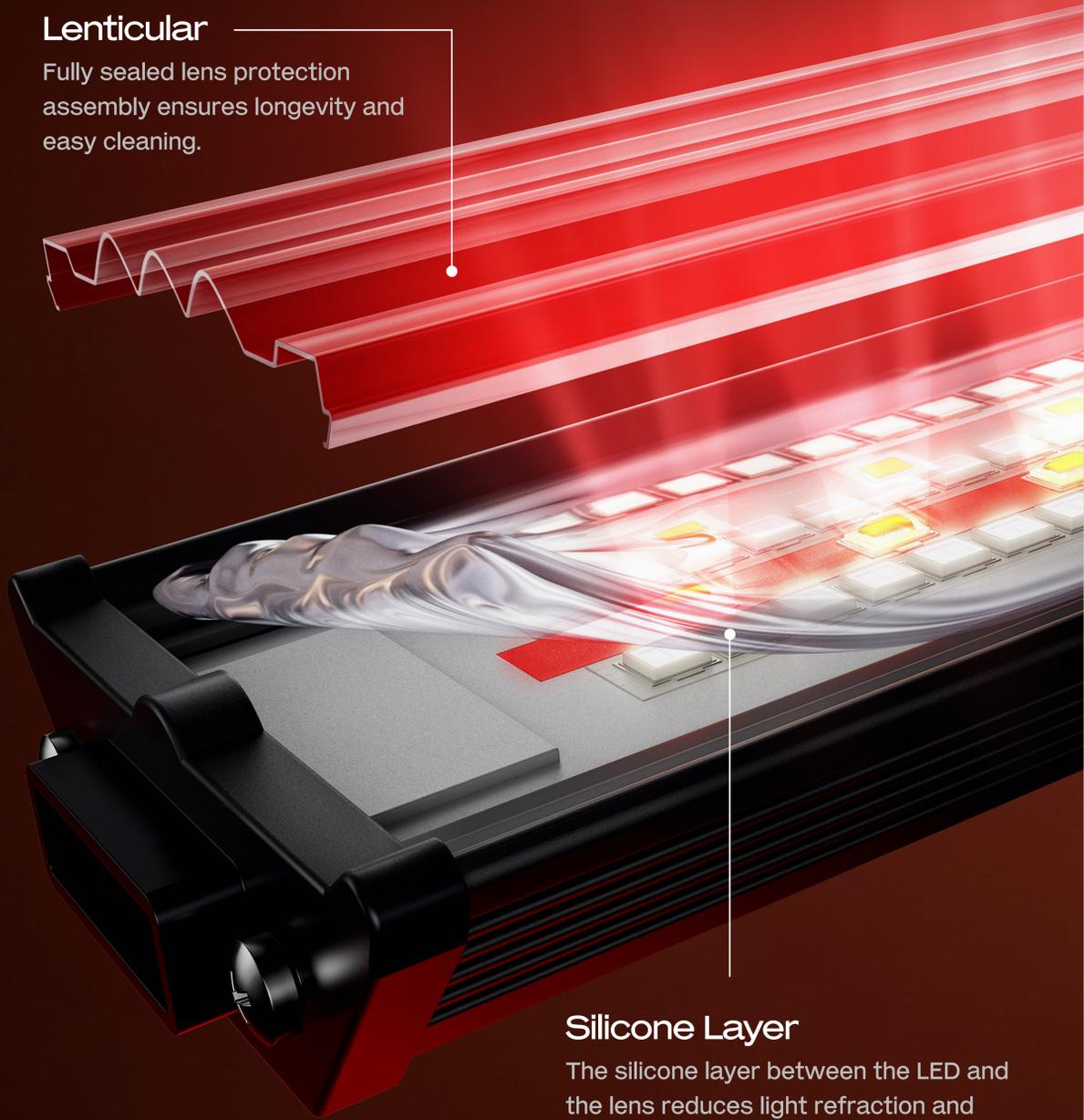
A New Line of
Engineering Excellence

2025
NEW RELEASE

Liquid Optics System

Meet Redline — Flexstar’s next-generation LED grow light engineered for professionals. Featuring our patented **Liquid Optics System**, Redline delivers 14% more PPFD, while its bidirectional silicone-gel cooling lowers LED temperatures by 5–8°C to sustain over five years of peak performance. A fully sealed, wipe-clean lens keeps the system dust-free and maintenance-friendly. Built to grow more, last longer, and redefine what’s possible in commercial cultivation.

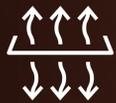
Lenticular
Fully sealed lens protection assembly ensures longevity and easy cleaning.



Silicone Layer
The silicone layer between the LED and the lens reduces light refraction and ensures virtually no wasted output.

14%

More PPFD



Bidirectional Cooling



Wipe-and-Go Protection



Extended LED Lifespan



Redline maximizes every watt, delivering industry-leading efficiency and unparalleled light output for higher yields



Enhance photosynthesis, accelerate flowering, and improve flower density, producing premium-quality crops



Sanitize, wash, and maintain your grow room without ever interrupting your grow

Model	Input Voltage	Input Power	PPE	PPF	Bar Type	Product Dimensions	Coverage
Redline 400W	120-277V	400W	3.1 $\mu\text{mol}/\text{J}$	1240 $\mu\text{mol}/\text{S}$	4-bar	44.5"L x 44.5"W x 2.2"H 112.8 x 112.8 x 5.5cm	4 x 4ft
Redline 645W	120-277V	645W	3.2 $\mu\text{mol}/\text{J}$	2064 $\mu\text{mol}/\text{S}$	6-bar	44.5"L x 44.5"W x 2.2"H 112.8 x 112.8 x 5.5cm	4 x 4ft
Redline 800W	120-277V	800W	3.2 $\mu\text{mol}/\text{J}$	2560 $\mu\text{mol}/\text{S}$	8-bar	44.5"L x 44.5"W x 2.2"H 112.8 x 112.8 x 5.5cm	4 x 4ft
Redline 800W XL	120-277V	800W	3.2 $\mu\text{mol}/\text{J}$	2560 $\mu\text{mol}/\text{S}$	8-bar	44.5"L x 66.1"W x 2.2"H 112.8 x 167.8 x 5.5cm	4 x 6ft
Redline 1000W XL	120-277V	1000W	3.2 $\mu\text{mol}/\text{J}$	3200 $\mu\text{mol}/\text{S}$	10-bar	44.5"L x 66.1"W x 2.2"H 112.8 x 167.8 x 5.5cm	4 x 6ft
Redline 1200W XL	120-277V	1200W	3.2 $\mu\text{mol}/\text{J}$	3840 $\mu\text{mol}/\text{S}$	12-bar	44.5"L x 66.1"W x 2.2"H 112.8 x 167.8 x 5.5cm	4 x 6ft

Ready to grow with Redline?
Visit flex-star.com or contact us at sales@flex-star.com