FLEXSTAR

REDLINE
SPECTUNE
↘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 9–15°F 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.

14%
More PPFD

Bidirectional Cooling

Wipe-and-Go Protection

Extended LED Lifespan



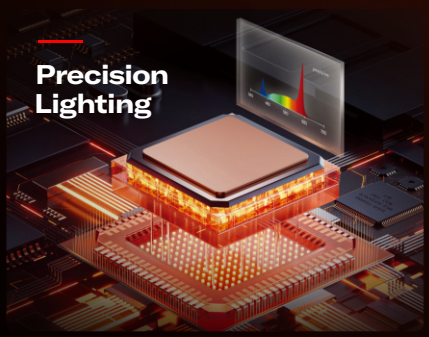
Lenticular
Fully sealed lens protection assembly ensures longevity and easy cleaning.

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



Maximum Yields

Redline maximizes everywatt, delivering industry-leading efficiency and unparalleled light output for higher yields.



Precision Lighting

Optimize every stage of the plant by controlling the spectrum for higher yields and superior quality.



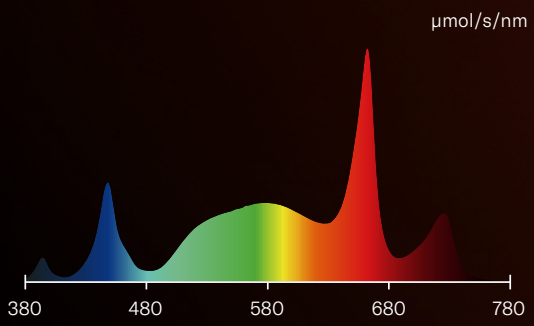
Durability Redefined

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

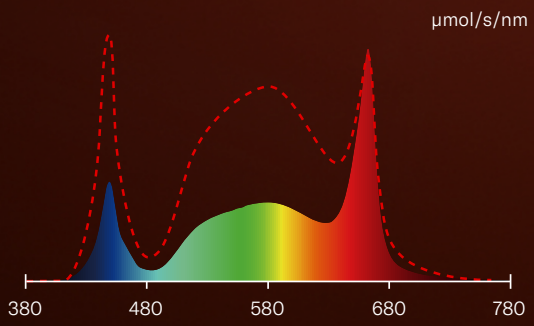
SPECIFICATIONS

Model	Input Voltage	Input Power	PPE Main Spectrum	PPF 400-700nm	BPE Broadband Spectrum	BPF 380-800nm	Bar Type	Product Dimensions	Coverage
Redline 760W ST	120-277V	760W (Main 645W+FR 75W+UV 40W)	3.2 µmol/J	2060 µmol/S	3.1 µmol/J	2320 µmol/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 1000W ST	120-277V	1000W (Main 840W+FR 105W+UV 55W)	3.2 µmol/J	2680 µmol/S	3.1 µmol/J	2900 µmol/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 1000W ST XL	120-277V	1000W (Main 840W+FR 105W+UV 55W)	3.2 µmol/J	2680 µmol/S	3.1 µmol/J	2900 µmol/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 1200W ST XL	120-277V	1200W (Main 1000W+FR 140W+UV 60W)	3.2 µmol/J	3200 µmol/S	3.1 µmol/J	3480 µmol/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

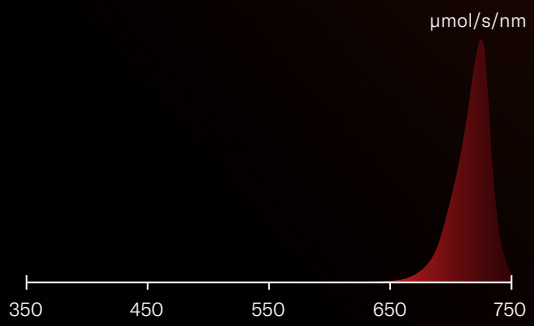
SPECTRUM



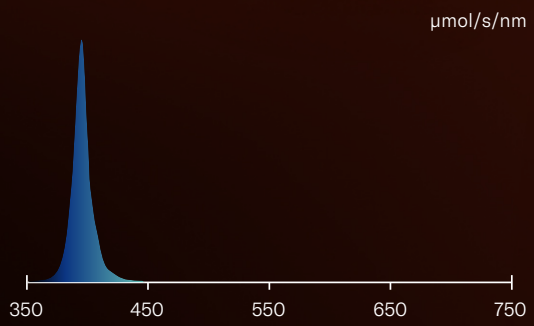
Main spectrum with all channels 100% ON



Main spectrum with Red channel 0%/100%



Only Far Red channel ON



Only UV channel ON

* Precise control over UV, Deep Red, White and Far Red enables growers to create any light recipe.
* The UV and Far Red channels can be independently adjusted from 25% to 100%.

PPFD MAP

At 12"(30cm) distance to canopy

Redline 760W ST

794	1037	1071	1126	1026	823
938	1189	1312	1324	1226	922
972	1264	1408	1412	1310	1083
959	1262	1366	1405	1309	1094
889	1141	1257	1321	1226	996
718	946	1031	1056	967	931

4 ft

4 ft

Redline 1000W ST

781	991	1195	1089	1029	827
985	1303	1481	1380	1296	965
1147	1584	1869	1847	1699	1272
1071	1605	1808	1847	1732	1248
939	1219	1346	1352	1210	999
775	898	991	999	869	809

4 ft

4 ft

Redline 1000W ST XL

823	954	1087	1151	1212	1090	967	785
957	1131	1274	1357	1377	1262	1152	922
984	1190	1347	1416	1432	1297	1197	942
969	1179	1330	1391	1384	1271	1168	927
847	1067	1150	1298	1315	1106	1044	827
711	813	998	1143	1139	1031	862	724

4 ft

6 ft

Redline 1200W ST XL

842	993	1096	1210	1219	1124	960	836
949	1199	1381	1453	1491	1361	1175	902
1114	1437	1620	1770	1776	1625	1405	1033
1093	1421	1599	1748	1748	1586	1358	1006
904	1143	1252	1303	1339	1213	1068	873
762	879	925	1013	1082	941	856	755

4 ft

6 ft

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