

# HORTICULTURE LEDs

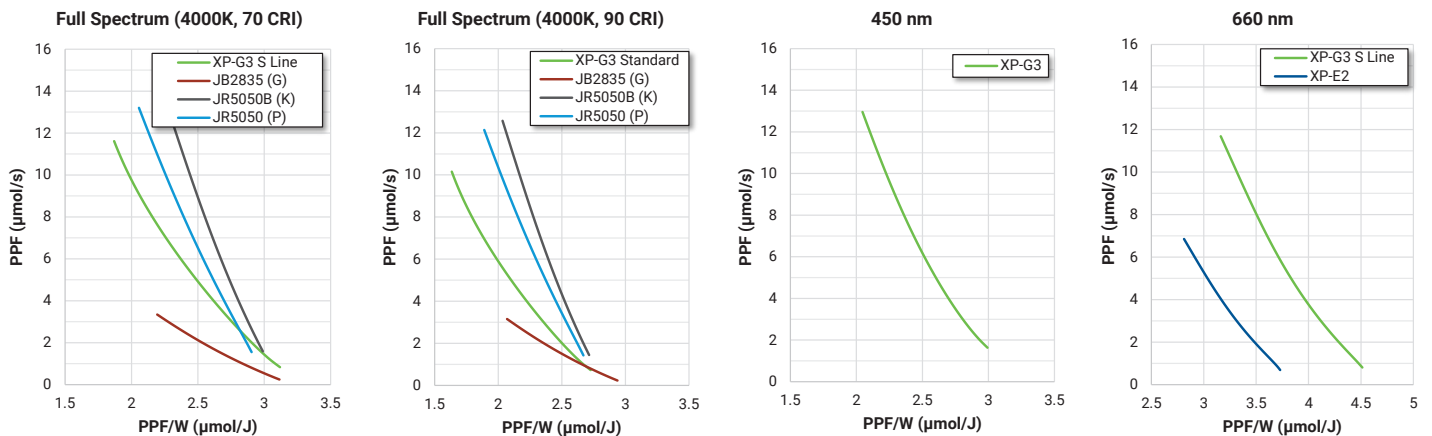
- Broad portfolio of mid-power & high-power LEDs for all applications
- Reported DLC Horticulture lifetimes up to Q90 > 90.7k hrs
- XP-G3 S Line versions provide best-in-class efficiency & sulfur resistance
- Industry-leading performance at all horticulture wavelengths

August 2021 (FS39R0)

## PORTFOLIO OVERVIEW

Power Class	LEDs	Footprint (mm)	Maximum Power (W)	Full Spectrum	450 nm	660 nm	730 nm
High Power (1+ W)	JR5050B K Class	5.0	6				
	JR5050 P Class	5.0	6				
	XLamp XP-G3	3.45	5	 Standard & S Line	 Standard	 S Line	
	XLamp XP-E2	3.45	3				
Mid Power (0.5 W)	JB2835B G Class	2.8 x 3.5	1.5				

## PERFORMANCE CURVES



## ORDER CODES: XLAMP® LEDs

Color	LED	Reported TM-21 Q90 (hrs)	Test Current (A)	Voltage Class (V)	Minimum PPF (μmol/s)	PPF/W (μmol/J)	Order Code
4000 K/ 70 CRI	XP-G3 White (S Line)	>36.3k	0.350	3	2.73	2.89	XPGDWT-BS-0000-00P5E
					2.61	2.76	XPGDWT-BS-0000-00N5E
4000 K/ 90 CRI	XP-G3 White (Standard)	>36.3k	0.350	3	2.34	2.48	XPGDWT-U1-0000-00H5E
					2.19	2.31	XPGDWT-U1-0000-00G5E
450 nm	XP-G3 Royal Blue	>48.4k	0.350	3	2.77	2.83	XPGDRY-L1-0000-00601
					2.58	2.64	XPGDRY-L1-0000-00501
660 nm	XP-E2 Photo Red	>60.5k	0.350	3	2.44	3.41	XPEBPR-L1-0000-00D01
					2.31	3.22	XPEBPR-L1-0000-00C01
	XP-G3 Photo Red (S Line)	>90.7k	0.350	3	2.85	4.18	XPGDPR-LS-0000-00G01
					2.72	3.98	XPGDPR-LS-0000-00F01

Color	LED	Reported TM-21 Q90 (hrs)	Test Current (A)	Voltage Class (V)	Minimum PPF (μmol/s)	PPF/W (μmol/J)	Order Code
730 nm	XP-E2 Far Red	>36.3k	0.350	3	2.34	3.62	XPEBFR-L1-0000-00B01
					2.20	3.39	XPEBFR-L1-0000-00A01

## ORDER CODES: J SERIES® LEDs

Color	LED	Reported TM-21 Q90 (hrs)	Test Current (A)	Voltage Class (V)	Minimum PPF (μmol/s)	PPF/W (μmol/J)	Order Code
4000 K/ 70 CRI	JB2835B G Class	>72.6k	0.055	3	0.45	3.04	JB2835BWT-G-B40EA0000-N0000001
	JR5050B K Class	>72.6k	0.400	6	6.06	2.67	JR5050BWT-K-B40EB0000-N0000001
			0.080	30	6.06	2.67	JR5050BWT-K-B40EK0000-N0000001
			0.400	6	5.88	2.55	JR5050AWT-P-B40EB0000-N0000001
	JR5050 P Class	>72.6k	0.260	9	5.78	2.60	JR5050AWT-P-B40EC0000-N0000001
			0.100	24	5.88	2.55	JR5050AWT-P-B40EH0000-N0000001
0.400			6	5.41	2.34	JR5050AWT-P-U40EB0000-N0000001	
4000 K/ 90 CRI	JB2835B G Class	>72.6k	0.055	3	0.42	2.86	JB2835BWT-G-U40EA0000-N0000001
	JR5050B K Class	>72.6k	0.400	6	5.50	2.42	JR5050BWT-K-U40EB0000-N0000001
			0.080	30	5.50	2.42	JR5050BWT-K-U40EK0000-N0000001
			0.400	6	5.41	2.34	JR5050AWT-P-U40EB0000-N0000001
	JR5050 P Class	>72.6k	0.260	9	5.27	2.37	JR5050AWT-P-U40EC0000-N0000001
			0.100	24	5.41	2.34	JR5050AWT-P-U40EH0000-N0000001
0.400			6	5.41	2.34	JR5050AWT-P-U40EH0000-N0000001	

All performance figures shown for T<sub>j</sub> = 25°C.

More CCT & CRI options are available for the full spectrum (white) LEDs. Please see the product data sheets for more detail.