

HORTICULTURE LEDs

- Broad portfolio of mid-power & high-power LEDs for all applications
- Reported DLC Horticulture lifetimes up to Q90 >109k hrs
- Photophyll™ Select LEDs: new phosphor-converted LED color with blue and green spectral output tuned for horticulture applications

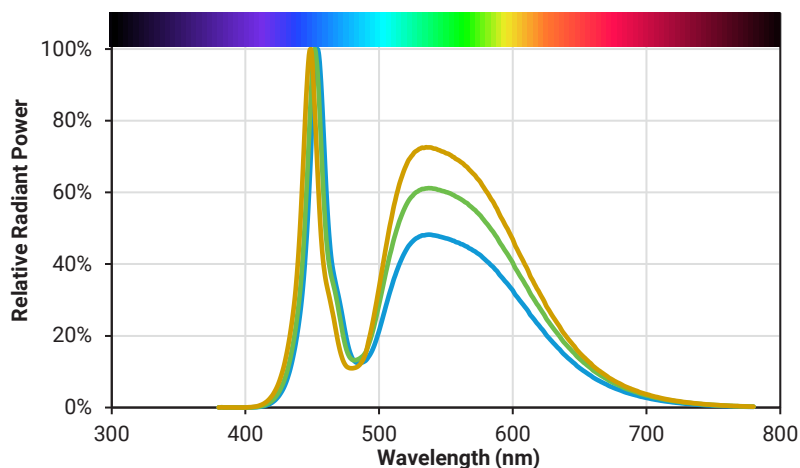
December 2023 (FS39R5)

PORTFOLIO OVERVIEW

LED Platform	Photophyll™ Select		White		450 nm		660 nm		730 nm		PC Purple	
J Series® 5050 5.0 x 5.0 mm				JR5050C E Class								
				JR5050B K Class								
XLamp® XP 3.45 x 3.45 mm		XP-G3		XP-G3 S Line		XP-G3		XP-G3 S Line				
								XP-E2		XP-E2		
J Series 3030 3.0 x 3.0 mm				JB3030C 3V E								
J Series 2835 2.8 x 3.5 mm		JB2835B 3V G		JB2835B 3V G		JE2835B 3V N		JE2835B 3V N		JE2835B 3V N		JE2835B 3V N

PHOTOPHYLL™ SELECT LEDS

- Advanced horticulture spectrum optimized for maximum performance with 660 nm Photo Red LEDs
- First LEDs with precise control over the green/blue ratio



Photophyll™
Select LEDs

660 nm
Photo Red LED

Blue

- Standard 450 nm peak

Green

- Optimized 500-600 nm content
- Available in 3 precise ratios

Red

- Minimal 20% Red PPF

Horticulture-Specific Metrics

- PPF-based spectral targets
- Aligned to current market requirements

PHOTOPHYLL™ SELECT LEDs

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
Photophyll Select	20%	2.0	XLamp® XP-G3	350	2.50	2.60	2.62	XPGDWT-N1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-N001A0000-N0000001
		2.5	XLamp XP-G3	350	2.50	2.60	2.62	XPGDWT-Q1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-Q001A0000-N0000001
		3.0	XLamp XP-G3	350	2.50	2.60	2.62	XPGDWT-X1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-X001A0000-N0000001

WHITE LEDs

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

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
5000K 70 CRI	~35%	~2.0	JR5050C 6V E Class	400	5.28	6.34	2.81	JR5050CWT-E-B50EB0000-N0000001
			JR5050B 6V K Class	400	5.28	6.01	2.65	JR5050BWT-K-B50EB0000-N0000001
			JR5050B 30V K Class	80	5.28	6.01	2.65	JR5050BWT-K-B50EK0000-N0000001
			XLamp XP-G3 S Line	350	2.78	---	2.86	XPGDWT-BS-0000-00P3E
			JB3030C 3V E Class	55	0.44	0.47	3.19	JB3030CWT-E-B50EA0000-NZ000001
			JB2835B 3V G Class	55	0.41	0.45	3.04	JB2835BWT-G-B50EAHGRO-N00A0001
3500K 80 CRI	~40%	~3.4	JR5050C 6V E Class	400	4.83	6.02	2.67	JR5050CWT-E-H35EB0000-N0000001
			JR5050B 6V K Class	400	4.83	5.73	2.53	JR5050BWT-K-H35EB0000-N0000001
			JR5050B 30V K Class	80	4.83	5.73	2.53	JR5050BWT-K-H35EK0000-N0000001
			JB3030C 3V E Class	55	0.40	0.45	3.06	JB3030CWT-E-H35EA0000-NZ000001
			JB2835B 3V G Class	55	0.40	0.43	2.93	JB2835BWT-G-H35EAHGRO-N00A0001

COLOR LEDs

730 nm LED flux values shown are photon flux (PF) for the range 380-780 nm.

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
450 nm (Royal Blue)	---	---	XLamp XP-G3	350	2.77	---	2.83	XPGDRY-L1-0000-00601
			JB2835 3V N Class	140	---	1.01	2.43	JE2835ARY-N-0002A0000-N0000001
660 nm (Photo Red)	~99%	---	XLamp XP-G3 S Line	350	2.99	---	4.40	XPGDPR-LS-0000-00H01
			XLamp XP-E2	350	2.72	---	3.71	XPEBPR-L1-0000-00F01
			JB2835 3V N Class	140	---	0.72	2.33	JE2835AHR-N-0001A0000-N0000001
730 nm (Far Red)	---	---	XLamp XP-E2	350	2.49*	---	3.78*	XPEBFR-L1-0000-00C01
			XLamp XP-E2	350	2.34*	---	3.62*	XPEBFR-L1-0000-00B01
			JB2835 3V N Class	140	---	0.72*	2.40*	JE2835AFR-N-0001A0000-N0000001
PC Purple	71%	0.63	JB2835 3V N Class	140	---	0.89	2.20	JE2835APP-N-0001A0000-N0000001

* All performance figures shown for Tj = 25°C