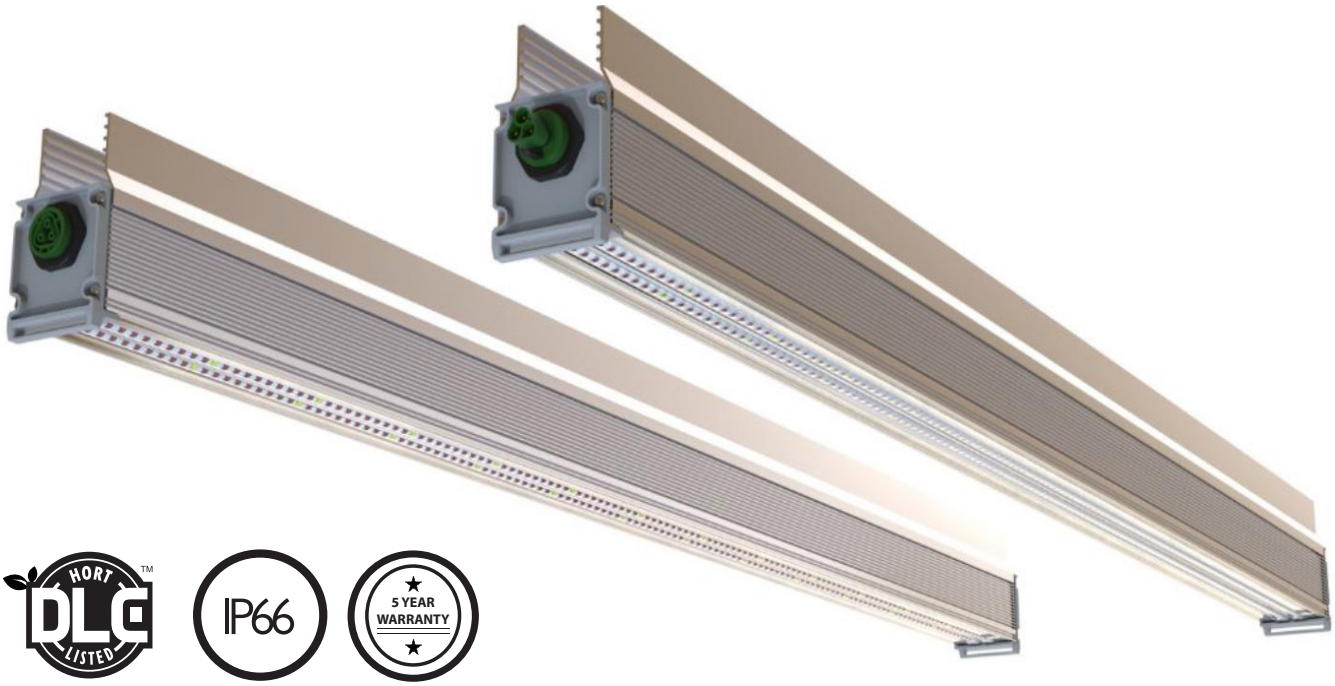
ParFX™ BalensBeam

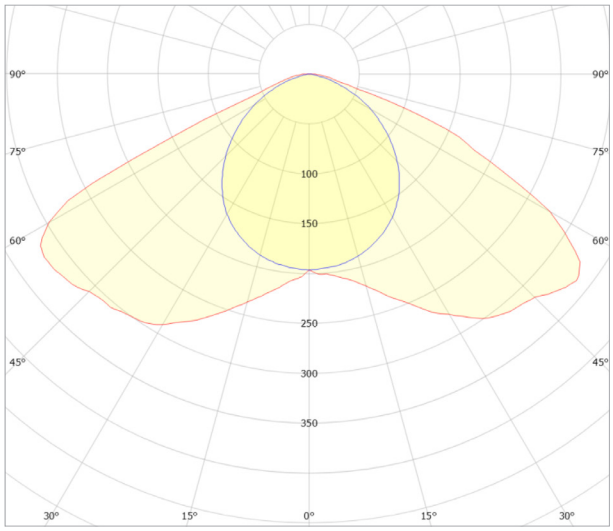
P.L. LIGHT SYSTEMS
THE LIGHTING KNOWLEDGE COMPANY



C SA US | DLC HORT LISTED | IP66 | 5 YEAR WARRANTY

OPTIMAL LIGHT UNIFORMITY AND DISTRIBUTION

Designed to deliver optimal light intensity and uniformity across, and deep within, the crop canopy—the ParFX™ BalensBeam is the ideal lighting solution for tall (highwire) crops and/or applications where mounting heights are limited.



The luminaire delivers optimized PAR light intensity in both the horizontal & vertical planes to ensure uniform light distribution across the surface of the crop, as well as deep within the canopy.

KEY FEATURES & BENEFITS INCLUDE:

- Optimized light distribution in both the horizontal and vertical planes for unparalleled uniformity across and within the canopy.
- Linear design for minimal shadowing.
- Highly robust, quality construction for years of reliable operation within CEA environments.
- Highly secure and efficient Power Line Communication (PLC) dimming protocol.

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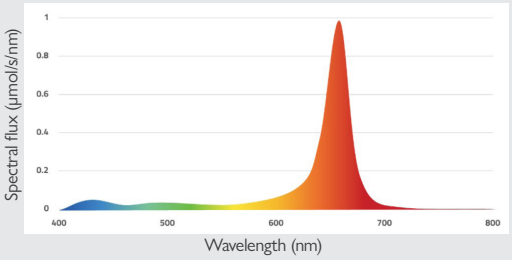
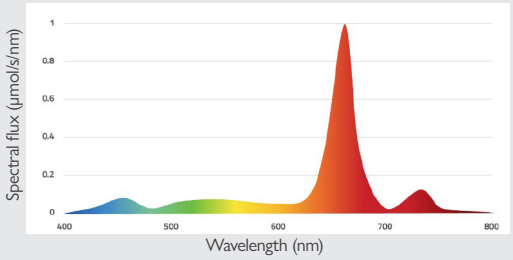
Optimum Color Efficiency

All ParFX™ BalensBeam spectral recipes designed for optimal efficiencies.

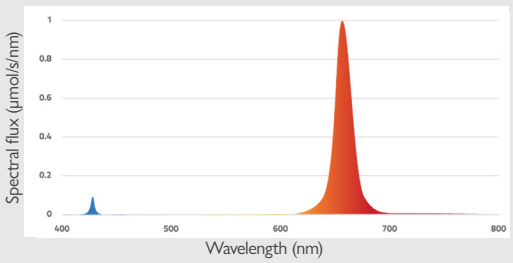
R90:W5:B5 Spectrum

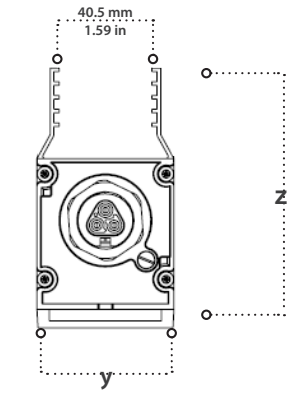


R79:W8:B5:FR8 Spectrum

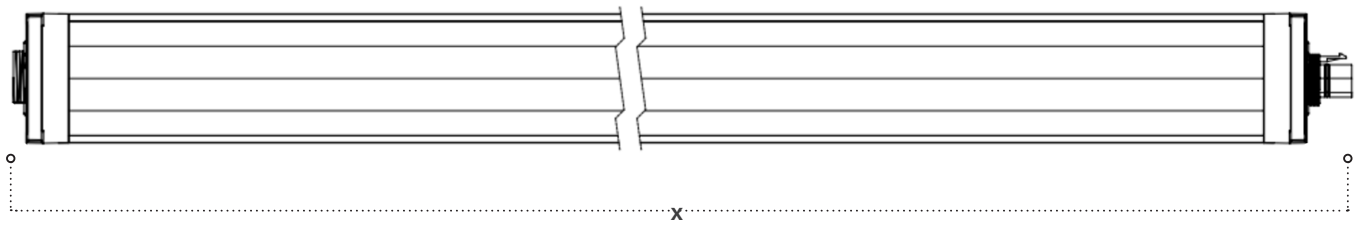


R95:B5 Spectrum





DIMENSIONS	
Length (x)	48.82 in (1240 mm)
Width (y)	2.36 in (60 mm)
Height (z)	4.45 in (113 mm)
Weight	7.98 lb. (3.62 kg)

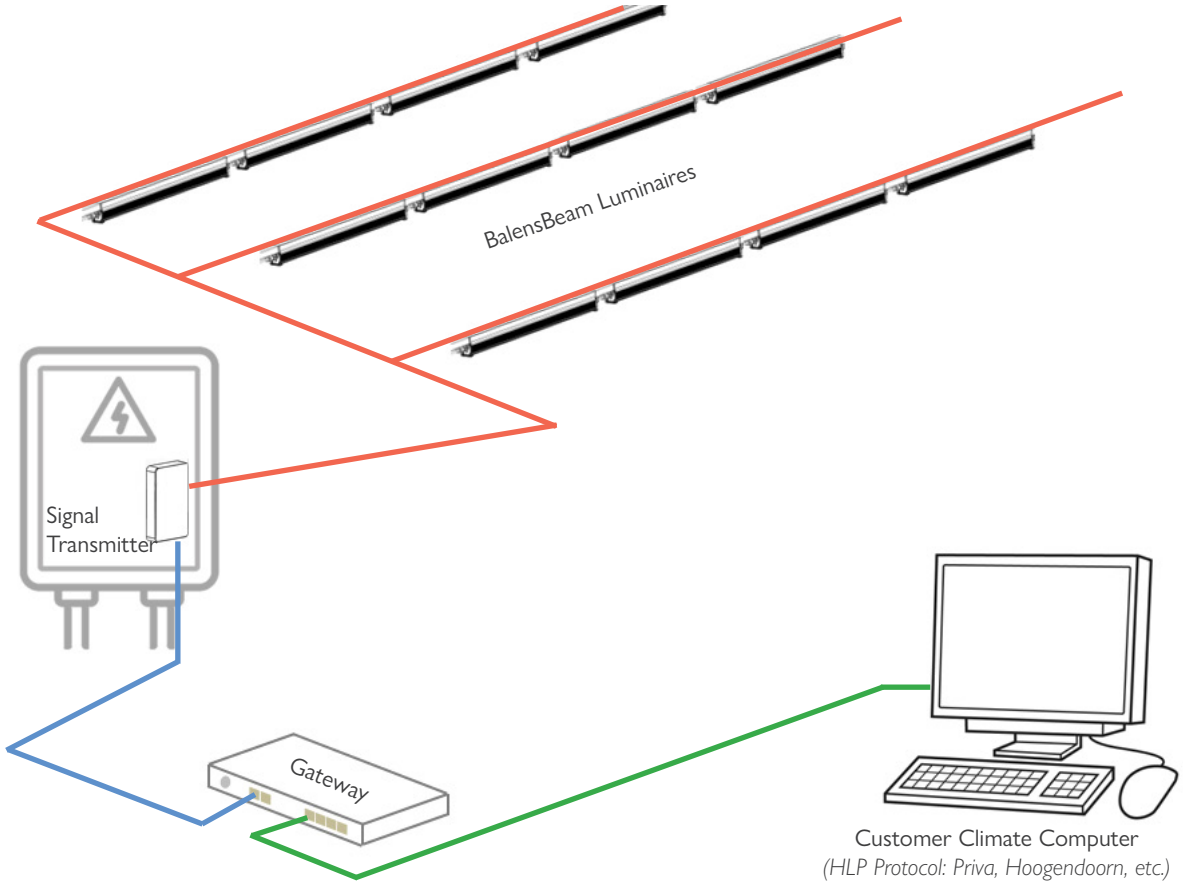


TECHNICAL SPECIFICATIONS†					
Rated Main Voltage	208-400V				
Amperage (max)	208V	240V	277V	347V	400V
	1.11	0.96	0.83	0.66	0.58
Power	230W				
Light Source	LED				
Photon Flux (350-800nm)	R90:W5:B5		R79:W8:B5:FR8		R95:B5
	805 µmol/s		780 µmol/s		830 µmol/s
Photon Efficacy (350-800nm)	R90:W5:B5		R79:W8:B5:FR8		R95:B5
	3.5 µmol/J		3.4 µmol/J		3.6 µmol/J
Power Factor	>0.98				
Dimming	PLC Dim to Off*				
Input Frequency	50/60Hz				
Environment	35°C Max. Ambient Operating Temperature; Suitable for Wet Locations				
Lifetime (L90)	L90B5 at 36,000 hours‡				

†Accurate to ± 10% ‡Scientifically extrapolated calculation for Par Maintenance of light is L90B5 at 36,000hrs (this means that expected lifespan of LEDs is defined as ≤5% of luminaires can depreciate below the expected 90% PAR maintenance within 36,000 hours). *Power Line Communication (PLC) dimming requires the purchase of P.L. Light Systems supplied transmitter system, with the gateway connecting to the customer's climate computer via Modbus TCP/IP. Customer's climate computer must utilize HLP.

Due to continuous product improvements, specifications and dimensions are subject to change without notice.
Certain options have limited compatibility with some other product selections..

Power Line Communication (PLC)



HOW IT WORKS:

- Power Line Communication (PLC) is a secure and efficient dimming protocol that leverages the existing electrical infrastructure to control the lighting system.
- The Gateway (supplied by P.L. Light Systems) receives a signal from the customer's climate computer (must use HLP protocol) via an RJ45 ethernet cable.
- This signal is then relayed to the Signal Transmitter (supplied by P.L. Light Systems), that gets installed in the electrical panel, via RJ12 communications cable.
- The signal transmitter then converts the signal to relay the communication to the BalensBeam luminaires via the existing electrical cable infrastructure.