ParFX™

TriPlane™

LINEAR

REDEFINING LED
GROW LIGHTING

P.L. LIGHT SYSTEMS

TriPlane™ LINEAR

The TriPlane Linear leverages the best features of LED and HID technologies — high light output, controlled distribution, optimized efficiencies and exceptional thermal management.

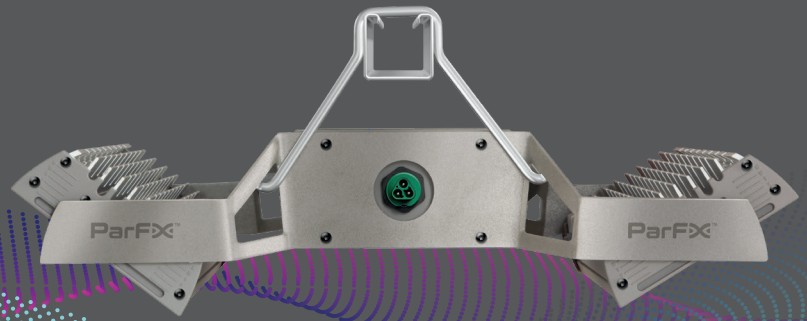
The TriPlane Linear sets a new standard for LED horticultural lighting as a true 1-for-1 replacement of the 1000W HID luminaire and delivers the ideal combination of performance and efficiency.

2209	3.2
µmol/s*	µmol/J*

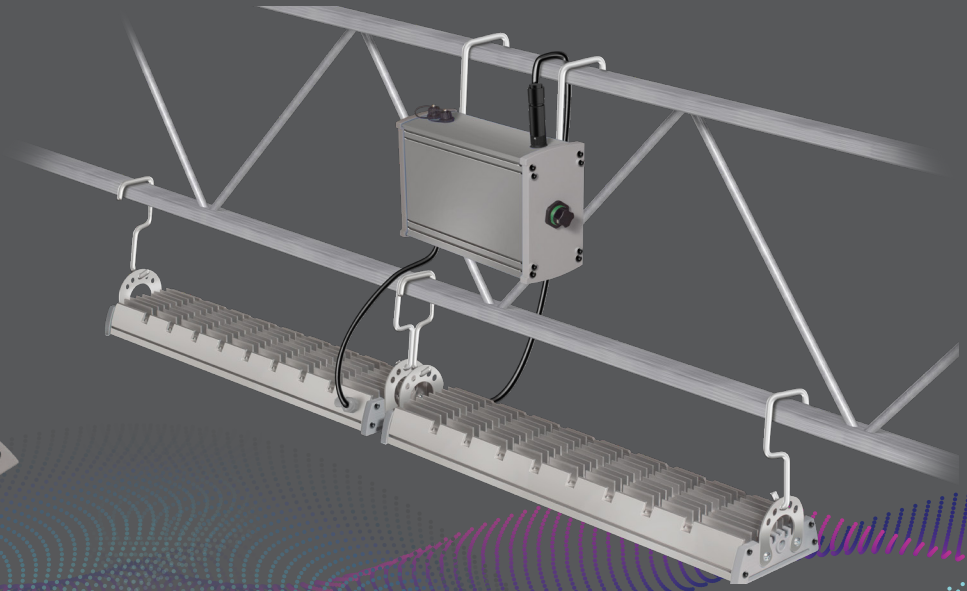
*RWMB_FR Spectrum HO

DESIGNED FOR FUNCTIONAL FLEXIBILITY

Designed for maximum flexibility, the TriPlane Linear offers both Linear and SQ mounting options to deliver the ideal form factor in any application.



SQ Configuration



Linear Configuration

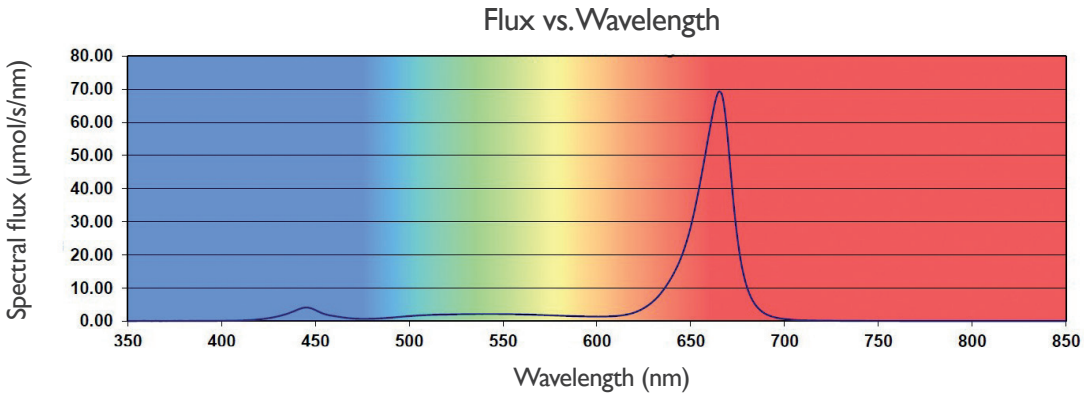
The luminaire's LED modules can be field-adjusted independently in precise increments in either direction — allowing for highly customized light distribution, depending on the application.

DELIVERING OPTIMUM COLOR EFFICIENCIES

The TriPlane Linear is available in Daylight; RWMB; RWMB_FR and RWMB+FR spectral recipes —all of which are optimized for stand-alone LED applications, or in combination with HID luminaires for hybrid applications.

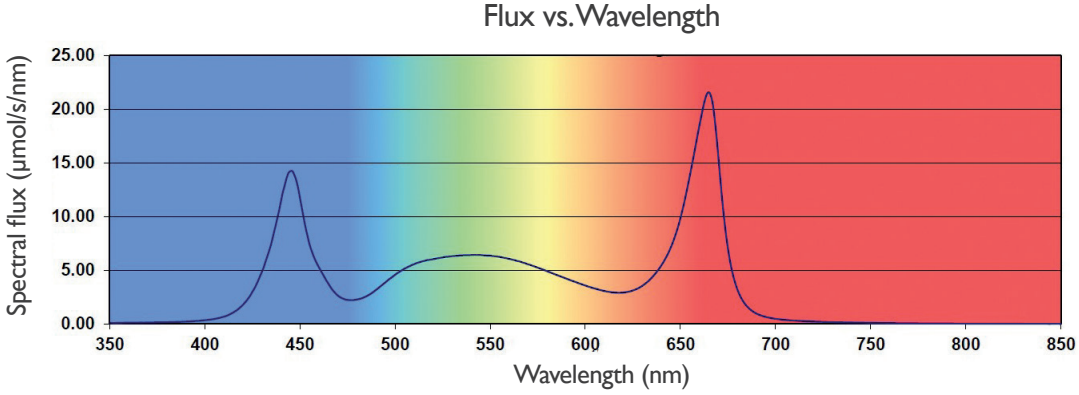
RWMB Spectrum

High efficiency spectrum with peaks in the red and blue wavelengths, optimized for supplementary lighting applications



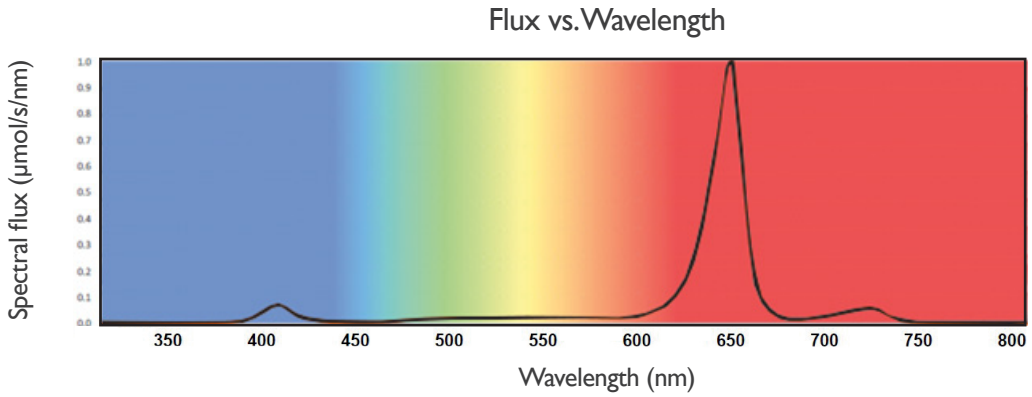
Daylight Spectrum

Broad spectrum white light, optimized for sole-source lighting applications



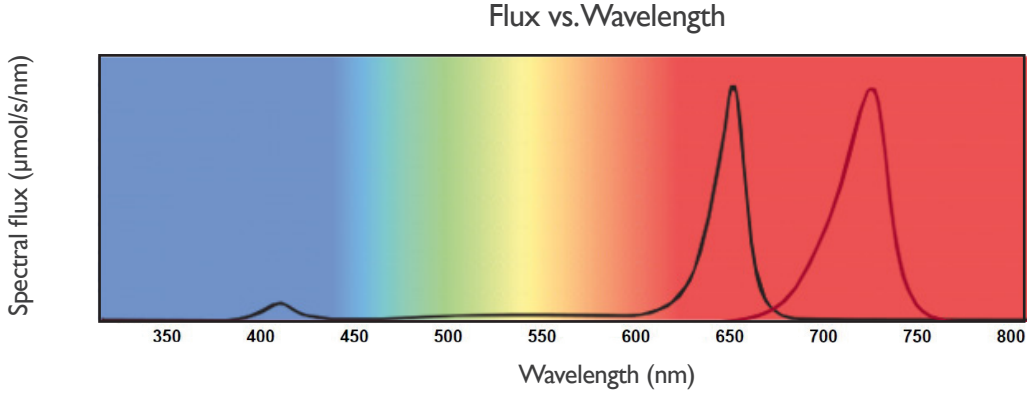
RWMB_FR Spectrum

Optimized for efficiencies in the red and blue wavelengths, with additional far-red content



RWMB+FR

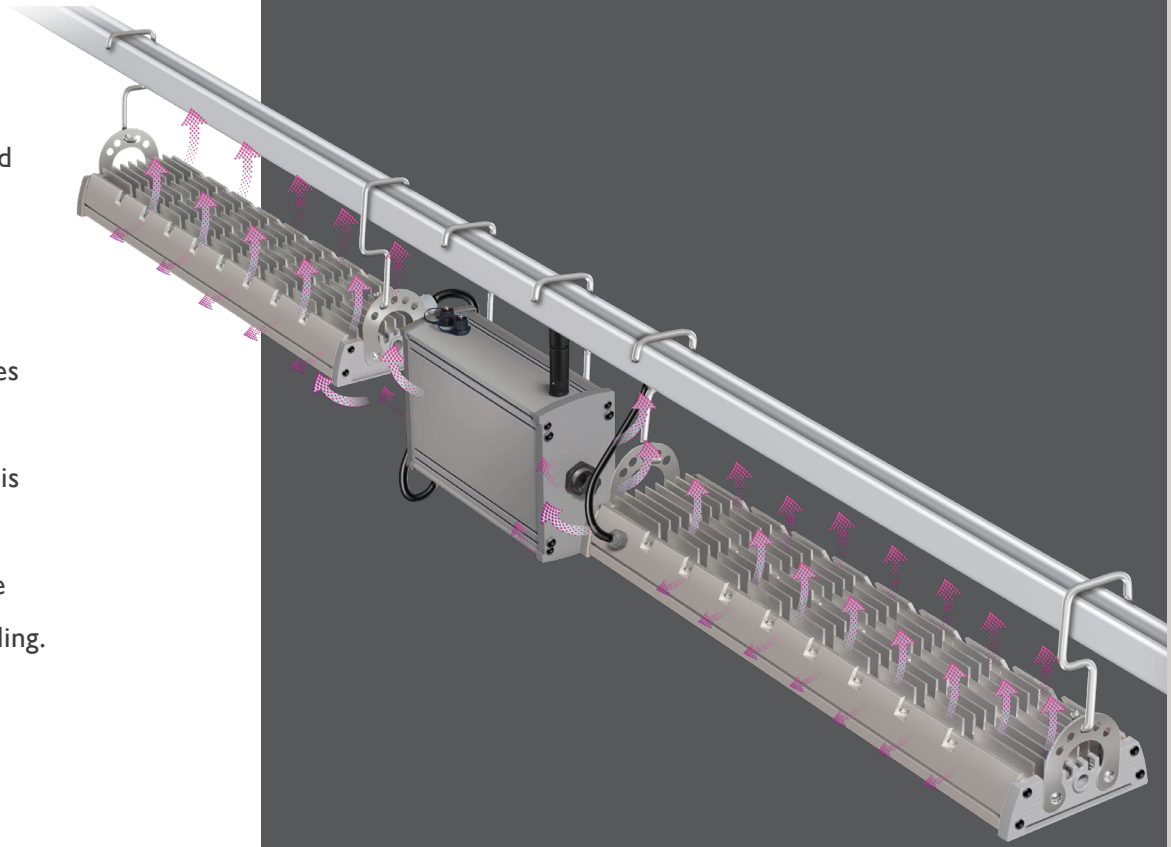
High efficiency spectrum with peaks in the red and blue wavelengths, with secondary, independently adjustable far-red channel



ENGINEERED FOR OPTIMAL THERMAL MANAGEMENT

The TriPlane Linear is thermally and mechanically engineered for optimal thermal management—maximizing the lifetime of the luminaire and reducing heat stress on the plants.

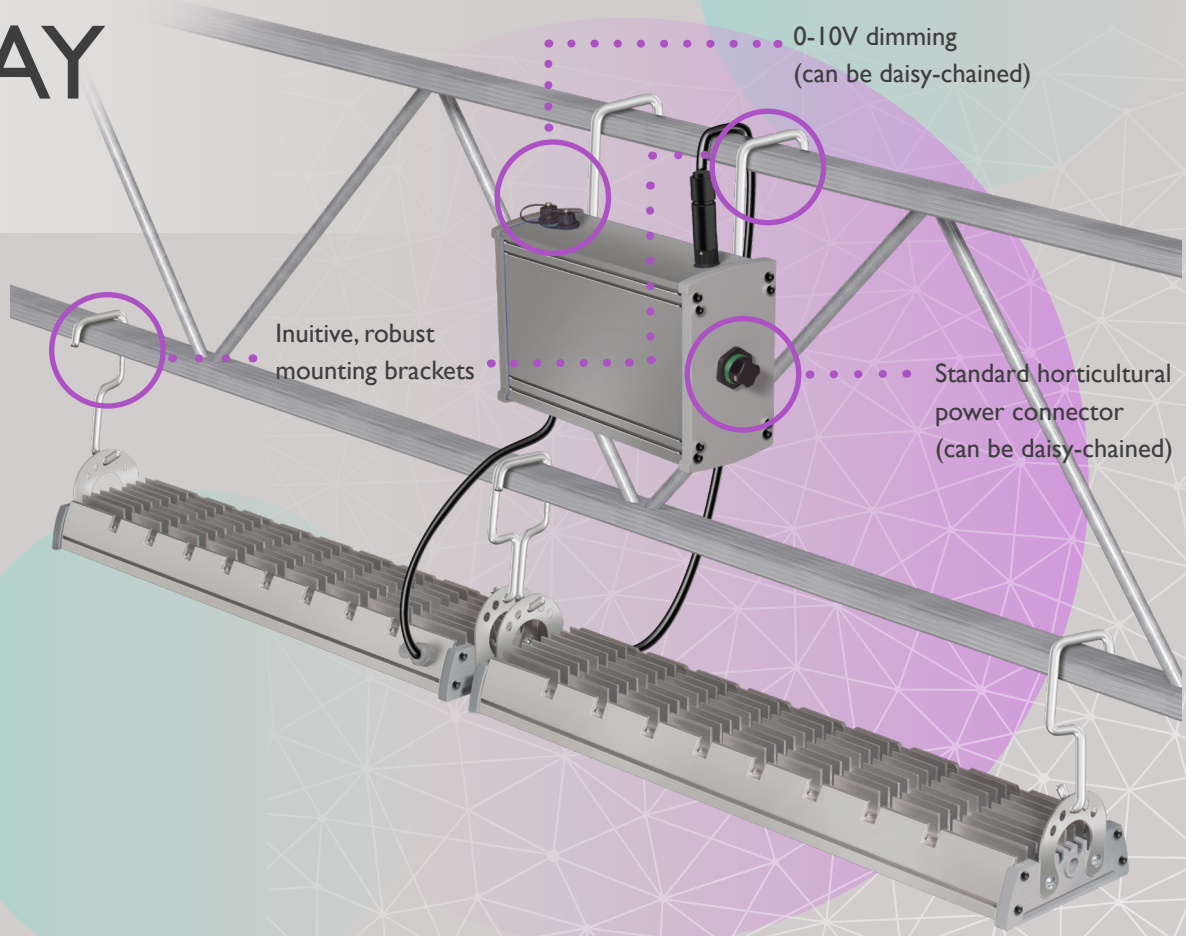
The integrated fins on the top of the aluminum LED modules are engineered to dissipate heat through conduction for optimal passive thermal management. The integrated driver is housed in an aluminum enclosure that is separate from the two LED modules to allow for maximum airflow around the electronics compartment—further allowing for passive cooling.



TRUE PLUG-AND-PLAY RETROFIT

A standard horticultural power connector—along with intuitive, toolless mounting brackets—allows for an easy plug-and-play retrofit of existing HID lighting installations.

The ability to daisy-chain both the power and 0-10V control, enables reduced installation cost and complexity.



TECHNICAL SPECIFICATIONS*

Rated Main Voltage			208-480V					
Amperage (max)			208V	240V	277V	347V	400V	480V
SINGLE-CHANNEL	RWMB	HO	3.22	2.79	2.42	1.89	1.68	1.40
		LO	1.90	1.65	1.43	1.14	0.99	0.83
	DAYLIGHT	HO	3.08	2.67	2.31	1.85	1.60	1.34
		LO	1.82	1.58	1.37	1.09	0.95	0.79
	RWMB_FR	HO	3.39	2.94	2.55	2.03	1.76	1.47
		LO	2.11	1.83	1.58	1.26	1.10	0.91
DUAL-CHANNEL	RWMB+FR	HO	3.42	2.97	2.57	2.05	1.78	1.48

Power		RWMB	Daylight	RWMB_FR	RWMB+FR‡ (2 CH)
	HO	670.8W	641.1W	705.1W	712.0W
	LO	396.0.7W	379.2W	438.9W	N/A
Light Source		LED			
Photon Flux		RWMB	Daylight	RWMB_FR	RWMB+FR‡ (2 CH)
(350-800nm)	HO	3.3 µmol/J	2.6 µmol/J	3.1 µmol/J	3.3 µmol/J
	LO	3.2 µmol/J	2.5 µmol/J	3.2 µmol/J	N/A
Photon Efficacy		RWMB	Daylight	RWMB_FR	RWMB+FR‡ (2 CH)
(350-800nm)	HO	2084 µmol/s	1651 µmol/s	2209 µmol/s	2313 µmol/s
	LO	1256 µmol/s	964 µmol/s	1424 µmol/s	N/A
Power Factor		>0.97			
Input Frequency		50/60Hz			
Ambient Operating Temperature		40°C (max)			
Lifetime		L90B5 at 50,000 hrs*			

*Accurate to ± 10% ‡CSA / DLC pending (RWMB+FR only)

*Scientifically extrapolated calculation for Par Maintenance of light is L90B5 at 50,000hrs (this means that expected lifespan of LEDs is defined as ≤5% of luminaires can depreciate below the expected 90% PAR maintenance within 50,000 hours)

C US

DLC HORT

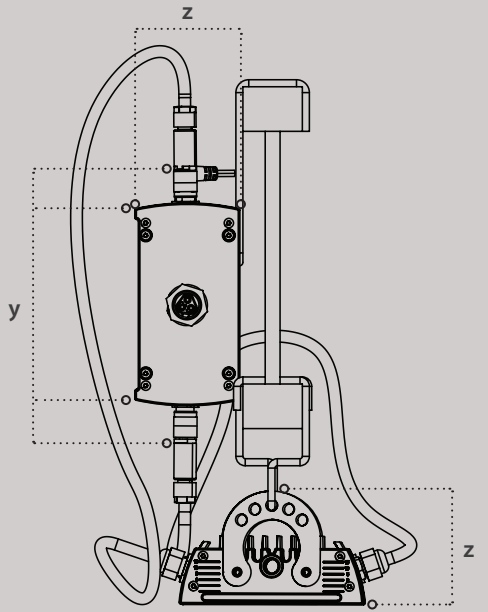
5 YEAR WARRANTY

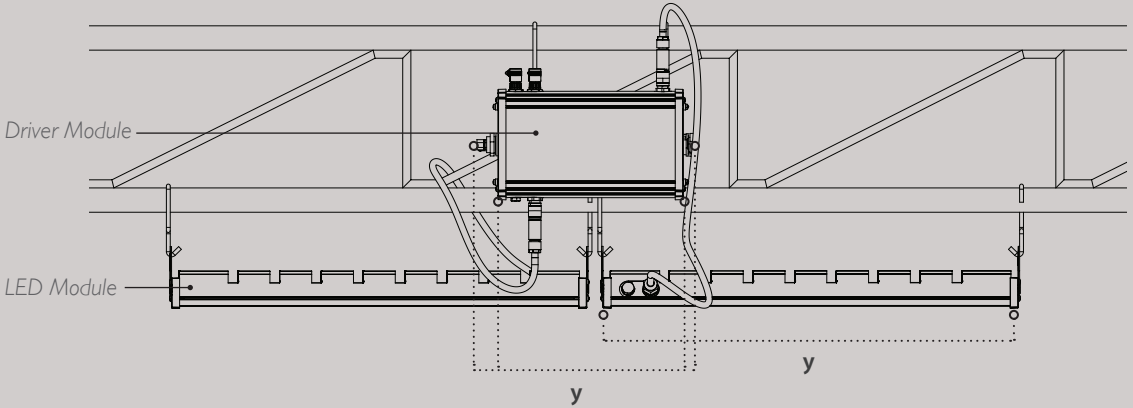
MADE IN NORTH AMERICA

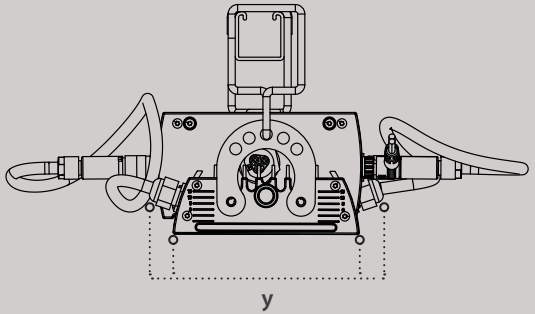
IP66

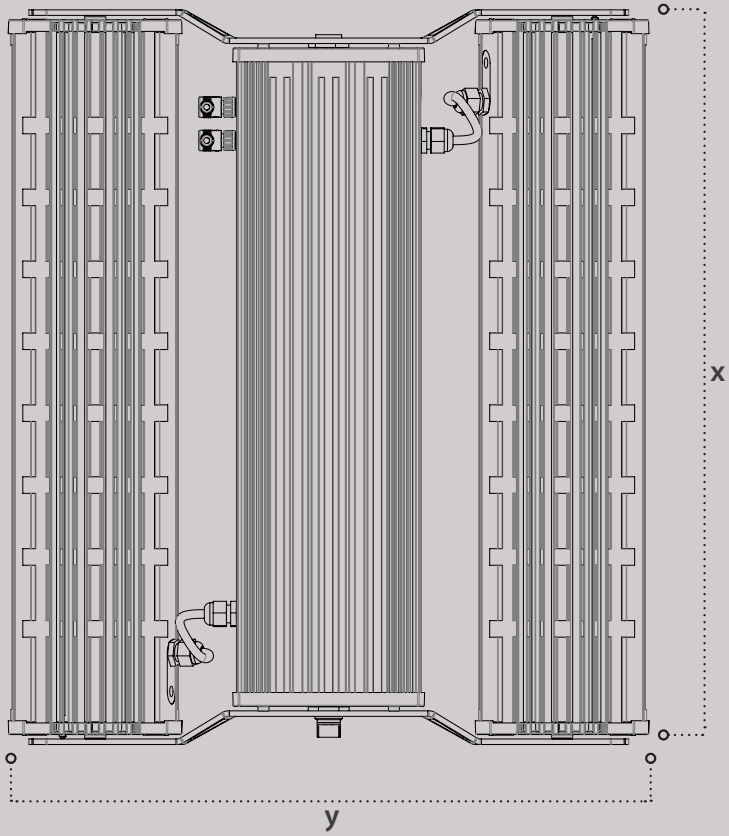
DIMENSIONS - LINEAR CONFIGURATION

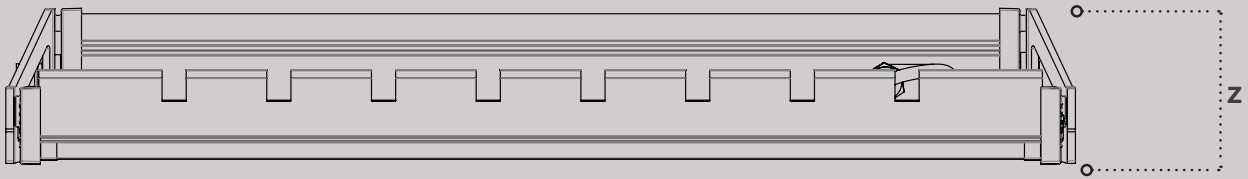
	LED Module		Driver Module (208-400V models)		Driver Module (480V models)	
Length (x)	25.60 in (650mm)		13.30 in (338 mm)		25.20 in (640 mm)	
Width (y)	excl. connectors	incl. connectors	excl. connectors	incl. connectors	excl. connectors	incl. connectors
	6.22 in (158 mm)	7.83 in (199 mm)	9.13 in (232 mm)	13.31 in (338 mm)	9.13 in (232 mm)	13.31 in (338 mm)
Height (z)	3.82 in (97 mm)		3.55 in (90 mm)		3.55 in (90 mm)	
Weight	11.2 lb. (5.1 kg)		6.8 lb. (3.1 kg)		16.1 lb. (7.3 kg)	











DIMENSIONS - SQ CONFIGURATION	
Length (x)	26.14 in (664mm)
Width (y)	22.80 in (579 mm)
Height (z)	3.81 in (96.7 mm)
Weight	34.1 lb. (15.5 kg)

P.L. LIGHT SYSTEMS

41 Brockley Dr, Unit 11
Hamilton, ON Canada, L8E 3C3

Telephone: 905.563.4133
Toll Free: 1.800.263.0213
Facsimile: 905.563.0445

www.pllight.com