



## VYPR 3p LED TOP LIGHT EU

Featuring multiple spectra and high efficacy, the VYPR Series is Fluence's advanced solution for greenhouse supplemental lighting and indoor sole-source applications.



### GROWER'S CHOICE OF SPECTRUM

From broad white to high red, Fluence PhysioSpec™ is offering BROAD and DUAL spectrum options on VYPR Series. This flexibility prioritizes the grower's needs in optimizing spectral content and light levels for any crop, at any growth stage, in any geographic location.

**PhysioSpec™ BROAD** Spectra offer photon emission across the PAR 400-700nm continuous wavelength range, balancing energy efficiency with quality of light for desired plant response and human work environment.

**PhysioSpec™ DUAL** Spectra feature two narrow spectral bands that maximize energy efficiency, aiming to further reduce energy cost and operational expense.

### EFFICIENT AND POWERFUL

Built upon patented thermal management technologies, VYPR 3P features market leading efficacies and high light output per fixture, enabling the direct replacement of a 1000W HPS fixture at more than 40% energy savings.

**High efficacy up to 3.8  $\mu\text{mol}/\text{J}$**

**High PPF up to 2330  $\mu\text{mol}/\text{s}$  per light fixture**

With that, VYPR 3P further reduces the number of fixtures and system cost per lit area, lowering the capital investment and accelerating the adoption of LED horticultural lighting.

## SPECIFICATIONS

Light Distribution (Beam Angle)	120°
AC Input Voltage	230 V AC, 400 V AC, 50/60Hz
Power Factor	> 0,98 (230 V AC); > 0,96 (400 V AC)
Total Harmonic Distortion	< 10%
Dimming	Source Signal Driver, 0/1-10 V, OFF/ 10-100%
Thermal Management	Passive
Max. Ambient Temperature	40°C / 104°F
Lifetime L90	BROAD R6 + Far Red > 45,000 hrs, Other Spectra > 50,000 hrs
Warranty	5 Year Limited
IP Rating	IP66
Certifications	CE, ETL, cETL, wet location
Industry Standards	IEC 60598-1, UL1598, UL8750, UL8800
IEC 61347-1 Electrical Insulation	Class I

## PHOTOSYNTHETIC PHOTON FLUX AND EFFICACY\* (400-700 nm)

PHYSIOSPEC™ SPECTRUM	LIGHT OUTPUT PPF (400-700 nm) (μmol/s)	@230 V AC		@400 V AC		SKU ABBR.
		AC Power (W)	Efficacy (PPE) (μmol/J)	AC Power (W)	Efficacy (PPE) (μmol/J)	
BROAD R3	1680	625	2,7	618	2,7	VR-3P-BW3
BROAD R4	1663	625	2,7	618	2,7	VR-3P-BW4
BROAD R6	1800	614	2,9	607	3,0	VR-3P-BP6
BROAD R8	1965	621	3,2	614	3,2	VR-3P-BP8
DUAL R9B High Efficacy	2330	624	3,7	617	3,8	VR-3P-HR9
DUAL R9B	2226	625	3,6	618	3,6	VR-3P-DR9
DUAL R5B	1690	622	2,7	615	2,7	VR-3P-DR5

## PHOTON FLUX AND EFFICACY\* (400-800 nm)

PHYSIOSPEC™ SPECTRUM	LIGHT OUTPUT PF (400-800 nm) (μmol/s)	FAR RED (700-800 nm) (μmol/s)	@230 V AC		@400 V AC		SKU ABBR.
			AC Power (W)	Efficacy (PE) (μmol/J)	AC Power (W)	Efficacy (PE) (μmol/J)	
BROAD R6 + Far Red	1878	216	624	3,0	617	3,0	VR-3P-B6F

\* Average value at thermally steady state

Please contact Fluence Sales for spectra details

## NOMINAL ELECTRICAL AC INPUT\*

PHYSIOSPEC™ SPECTRUM	AC VOLTAGE	230 V	400 V
		BROAD R3	AC Current
BROAD R4	AC Power	625 W	618 W
BROAD R6	AC Current	2,67 A	1,52 A
	AC Power	614 W	607 W
BROAD R6 + Far Red	AC Current	2,71 A	1,54 A
	AC Power	624 W	617 W
BROAD R8	AC Current	2,70 A	1,53 A
	AC Power	621 W	614 W
DUAL R9B High Efficacy	AC Current	2,71 A	1,54 A
	AC Power	624 W	617 W
DUAL R9B	AC Current	2,72 A	1,54 A
	AC Power	625 W	618 W
DUAL R5B	AC Current	2,70 A	1,54 A
	AC Power	622 W	615 W

\* At 25°C (77°F) ambient temperature

## DIMENSIONS AND WEIGHT

PART	SKU Abb.	Length	Width	Height	Weight
VYPR 3p Light Fixture	VR-3P-XXX	1071 mm	74 mm	82 mm	3,5 kg
		42,33"	2,91"	3,23"	7,8 lb
Power Supply PSU2 LVG 600W 120-277 V AC	VR-3P-xxx-LVG	341 mm	134 mm	65 mm	3,2 kg
		13,43"	5,26"	2,56"	7,1 lb
Power Supply PSU2 HVE 600W 347-400 V AC	VR-3P-xxx-HVE	311 mm	134 mm	65 mm	2,9 kg
		12,24"	5,26"	2,56"	6,4 lb

## PSU2 POWER SUPPLY

- Small form factor
- High efficiency
- Flexible mounting



## VYPR REFLECTOR

Enhance light uniformity when mounted close to the crop

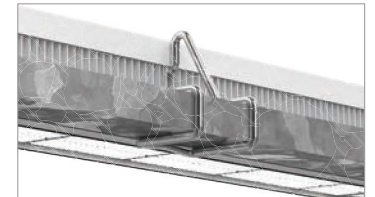
Optimize spectral uniformity in HPS + LED hybrid lighting



## MOUNTING OPTION EXAMPLES



WIRE HANGERS



VYPR PARALLEL MOUNT



VYPR PERPENDICULAR MOUNT



COMBO MOUNT  
400 V AC INPUT VOLTAGE ONLY



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Patented Technology - Fluence VYPR products are covered by U.S. Patent 10,571,113.

Subject to change without notice, Tolerance ±10%

Horticultural lighting | Not suitable for household illumination.