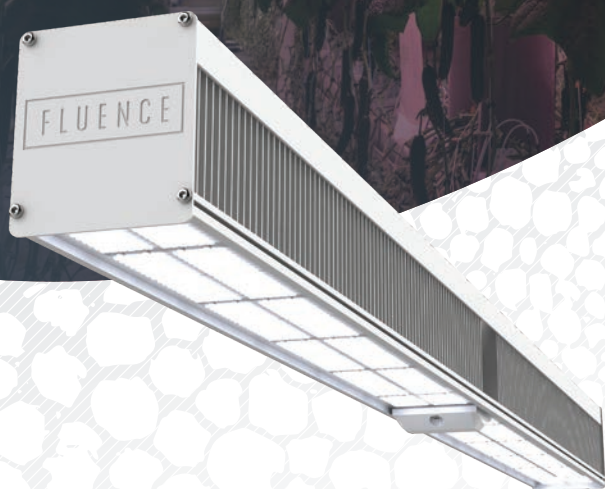


## VYPR 3p LED TOP LIGHT

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.

FLUENCE

BY OSRAM



## SPECIFICATIONS

Light Distribution (Beam Angle)	120°
AC Input Voltage	120-277 V AC, 347-480 V AC, 50/60 Hz
Power Factor	> 0.98 (120-277 V AC); > 0.97 (347-480 V AC)
Total Harmonic Distortion	< 10%
Dimming	Source Signal Driver, 0/1-10 V, OFF/ 10-100%
Thermal Management	Passive
Max. Ambient Temperature	104°F / 40°C
Lifetime L90	> 50,000 hrs
Warranty	5 Year Limited
IP Rating	IP66
Certifications	DLC, ETL, cETL, CE, Wet Location
Industry Standards	DLC, UL1598, UL8750, UL8800, IEC 60598-1
UL 8750 Output Voltage Rating	Class 2
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)	AC Power @ 277 V AC (W)	Efficacy (PPE) @ 277 V AC (μmol/J)	SKU ABBREVIATION
BROAD R3 (Greenhouse)	1680	620	2.7	VR-3P-BW3
BROAD R4 (Indoor)	1663	620	2.7	VR-3P-BW4
BROAD R6	1800	610	3.0	VR-3P-BP6
BROAD R8	1965	617	3.2	VR-3P-BP8
DUAL R9B High Efficacy	2330	620	3.8	VR-3P-HR9
DUAL R9B	2226	623	3.6	VR-3P-DR9
DUAL R5B (Antho)	1690	615	2.7	VR-3P-DR5

\* Average value at thermally steady state  
Please contact Fluence Sales for details of spectra

## NOMINAL ELECTRICAL AC INPUT\*

PHYSIOSPEC™ SPECTRUM	AC VOLTAGE	120 V	208 V	230 V	277 V	347 V	400 V	480 V
BROAD R3	AC Current	5.34 A	3.01 A	2.72 A	2.24 A	1.81 A	1.56 A	1.30 A
BROAD R4	AC Power	641 W	626 W	625 W	620 W	628 W	624 W	623 W
BROAD R6	AC Current	5.25 A	2.96 A	2.67 A	2.20 A	1.78 A	1.53 A	1.28 A
BROAD R6	AC Power	630 W	615 W	614 W	610 W	617 W	614 W	612 W
BROAD R8	AC Current	5.31 A	2.99 A	2.70 A	2.23 A	1.80 A	1.55 A	1.29 A
BROAD R8	AC Power	637 W	622 W	621 W	617 W	625 W	621 W	620 W
DUAL R9B High Efficacy	AC Current	5.33 A	3.00 A	2.71 A	2.24 A	1.81 A	1.56 A	1.30 A
DUAL R9B High Efficacy	AC Power	640 W	625 W	624 W	620 W	628 W	624 W	623 W
DUAL R9B	AC Current	5.34 A	3.01 A	2.72 A	2.25 A	1.81 A	1.56 A	1.30 A
DUAL R9B	AC Power	641 W	626 W	625 W	623 W	628 W	624 W	623 W
DUAL R5B (Antho)	AC Current	5.31 A	2.99 A	2.70 A	2.22 A	1.80 A	1.55 A	1.29 A
DUAL R5B (Antho)	AC Power	638 W	623 W	622 W	615 W	625 W	621 W	620 W

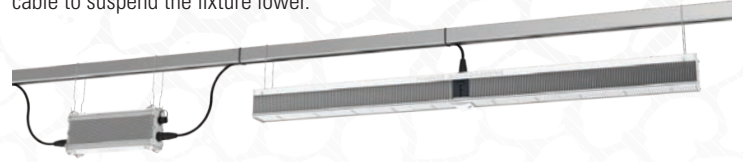
\* At 77°F (25°C) ambient temperature

## DIMENSIONS AND WEIGHT

PART	SKU Abb.	Length	Width	Height	Weight
VYPR 3p Light Fixture	VR-3P-XXX	42.17" 1071 mm	2.91" 74 mm	3.23" 82 mm	7.8 lb 3.5 kg
Power Supply PSU2 LVG 600 W, 120-277 V AC	VR-3P-xxx-LVG	13.43" 341 mm	5.26" 134 mm	2.56" 65 mm	7.1 lb 3.2 kg
Power Supply PSU2 HVG 600 W, 347-480 V AC	VR-3P-xxx-HVG	11.06" 281 mm	6.34" 161 mm	2.47" 63 mm	7.4 lb 3.4 kg

## MOUNTING OPTIONS

**WIRE HANGERS** - These standard mounting options include Pipe, Unistrut and Square wire hangers. Ideal for mounting under the truss or pairing with chain or cable to suspend the fixture lower.



**COMBO MOUNT** - Stacking the light fixture and power supply under the truss allows individual VYPRs to be close to one another without a second support structure for hanging the power supplies.

**For AC Input Voltage 277-480 V only**



**PSU2 SURFACE MOUNT** - Mounting the power supply above the truss increases VYPR's distance to crops for better light uniformity, and allows VYPRs to be close to one another without a second support structure for hanging the power supplies.

**For AC Input Voltage 277-480 V only**



**VYPR PARALLEL TO TRUSS MOUNT** - This mounting option maximizes light fixture's distance to crops for better light uniformity, and clears the space under the truss for operating other equipment.



**VYPR PERPENDICULAR TO TRUSS MOUNT** - This mounting option allows the fixture to hang perpendicular to the truss to be in parallel to high-wire crop rows, providing better light uniformity without installing additional support structure.



Contact **FLUENCE**

support@fluencebioengineering.com

www.fluence.science/VYPR

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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.

## SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY

FAMILY	MODEL	PhysioSpec™ SPECTRUM		INPUT VOLTAGE		PACKAGING	
<b>VR</b> VYPR	<b>3P</b> Gen 3 PLUS	<b>BW3</b>	BROAD R3 (Greenhouse)	<b>LVG</b>	120-277 V AC	<b>B</b>	Bulk Pack
		<b>BW4</b>	BROAD R4 (Indoor)	<b>HVG</b>	347-480 V AC	<b>S</b>	Single Pack
		<b>BP6</b>	BROAD R6				
		<b>BP8</b>	BROAD R8				
		<b>HR9</b>	DUAL R9B High Efficacy				
		<b>DR9</b>	DUAL R9B				
		<b>DR5</b>	DUAL R5B (Antho)				

PhysioSpec™ SPECTRUM	SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply	
				PSU2 LVG 600 W 120-277 V AC	PSU2 HVG 600 W 347-480 V AC
<b>BROAD R3 (Greenhouse)</b>	VR-3P-BW3	10396	11.7 A	71530	71537
<b>BROAD R4 (Indoor)</b>	VR-3P-BW4	10397			
<b>BROAD R6</b>	VR-3P-BP6	10500			
<b>BROAD R8</b>	VR-3P-BP8	10499			
<b>DUAL R9B High Efficacy</b>	VR-3P-HR9	10532	11.4 A	10506	10509
<b>DUAL R9B</b>	VR-3P-DR9	10498			
<b>DUAL R5B (Antho)</b>	VR-3P-DR5	10501			

## ORDERING CODES FOR ACCESSORIES

MOUNTING HARDWARE	Quantity per Light Fixture	Power Supply PSU2 LVG 600 W 120-277 V AC	Power Supply PSU2 HVG 600 W 347-480 V AC	Ordering Code	QTY/ Carton
Unistrut Wire Hanger (for strut width ≤ 1-5/8" / 45 mm)	1 Kit	1 Kit	1 Kit	AMV2-10120-20	20 Kits
Pipe Wire Hanger (for pipe diameter ≤ 1-3/4" / 45 mm)	1 Kit	1 Kit	1 Kit	AMV2-10121-20	20 Kits
Square Wire Hanger (for truss width ≤ 2-3/4" / 70 mm)	1 Kit	1 Kit	1 Kit	AMV2-10119-20	20 Kits
Combo Mount Wire Hanger (For AC Input Voltage 277-480 V ONLY)	1 Kit	1 Kit	1 Kit	AMV3-10569-20	20 Kits
PSU2 LVG 600 W surface mount Kit (For AC Input Voltage 277 V ONLY)	N/A	1 Kit	N/A	AMPS-10453-10	10 Kits
PSU2 HVG 600 W surface mount Kit	N/A	N/A	1 Kit	AMPS-10454-10	10 Kits
VYPR Parallel Mount bracket (for strut 25 x 50 mm)	1 Kit	N/A	N/A	AMV3-10571-20	20 Kits
VYPR Perpendicular Mount Wire Hanger (for strut 25 x 50 mm)	1 Kit	N/A	N/A	AMV3-10572-20	20 Kits
VYPR 3P Reflector Kit 20-inch	2 Kits	N/A	N/A	ARV3-10529-40	40 Kits
		N/A	N/A	ARV3-10529-10	10 Kits
DC POWER CABLES (Fixture to Power Supply)		Quantity per Light Fixture		Ordering Code	QTY/ Carton
3-FT (0.91 m) DC Extension Cable, M19 Push Lock		1 pc		CDCG-70720-10	10 pcs
6-FT (1.83 m) DC Extension Cable, M19 Push Lock		1 pc		CDCG-70721-10	10 pcs
18-IN (0.46 m) Right Angle DC Extension cable, M19 Push Lock - for Combo Mount, PSU2 Surface Mount		1 pc		CDCG-71591-10	10 pcs
AC POWER CABLE - <b>AMERICAS</b> (Power Supply to AC Line)		Quantity per Power Supply		Ordering Code	QTY/ Carton
6-FT (1.83 m) AC Extension Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC		1 pc		CACA-70748-10	10 pcs
6-FT (1.83 m) AC Extension Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC		1 pc		CACA-70750-10	10 pcs
6-FT (1.83 m) AC Extension Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC		1 pc		CACA-70752-10	10 pcs
6-FT (1.83 m) AC Extension Cable, Pigtail, M19 Push Lock, Max 480 V AC		1 pc		CACA-70754-10	10 pcs
15-FT (4.57 m) AC Extension Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC		1 pc		CACA-70749-05	5 pcs
15-FT (4.57 m) AC Extension Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC		1 pc		CACA-70751-05	5 pcs
15-FT (4.57 m) AC Extension Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC		1 pc		CACA-70753-05	5 pcs
15-FT (4.57 m) AC Extension Cable, Pigtail, M19 Push Lock, Max 480 V AC		1 pc		CACA-70755-05	5 pcs
Wieland AC Connector Adapter for Power Supply, STW PVC, M19 Push Lock, 18-IN (0.46 m), Wieland Part #: 96.032.0053.1 (Male)		1 pc		CACA-71467-10	10 pcs
DC DIMMING SIGNAL CABLE - <b>AMERICAS</b> (Power Supply to Dimming Control)		Quantity per Power Supply		Ordering Code	QTY/ Carton
11-IN (0.28 m) dimming signal cable, pigtail, M12 connector		1 pc		CDMA-71561-10	10 pcs
5-FT (1.53 m) dimming signal cable, pigtail, M12 connector		1 pc		CDMA-71560-10	10 pcs