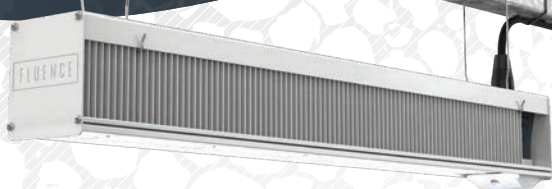




VYPR 3X LED TOP LIGHT

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 3X features market leading efficacies up to 3.7 $\mu\text{mol/J}$, enabling the replacement of HPS lights with significant energy savings.

At a half of VYPR 3P's size and power, VYPR 3X is ideal for distributing light uniformly in grow environments with constrained ceiling heights. VYPR 3X is also suitable for low DLI crops, and for extension of the natural photoperiod.

Combined with Fluence's beam widening reflectors, VYPR 3X further improves light uniformity and provides consistent light levels even when fixtures are mounted close to the crops.

FLUENCE

BY OSRAM

SPECIFICATIONS

Light Distribution (Beam Angle)	120°
AC Input Voltage	120-277 V, 347-400 V, 480 V AC, 50/60 Hz
Power Factor	> 0.92 (120-277 V AC); > 0.97 (347 V AC); > 0.95 (480 V AC)
Total Harmonic Distortion (THD)	< 20%
Dimming	Source Signal driver, 0/1-10 V, OFF/ 10-100%
Thermal Management	Passive
Max. Ambient Temperature	95°F / 35°C
Lifetime L90	> 50,000 hrs
Warranty	5 Year Limited
IP Rating	IP66
Certifications	ETL, cETL, CE, wet location
Industry Standards	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)	888	336	2.6	VR-3X-BW3
BROAD R4 (Indoor)	876	336	2.6	VR-3X-BW4
BROAD R6	912	312	2.9	VR-3X-BP6
BROAD R8	994	314	3.2	VR-3X-BP8
DUAL R9B High Efficacy	1200	322	3.7	VR-3X-HR9
DUAL R9B	1134	323	3.5	VR-3X-DR9
DUAL R5B (Antho)	878	324	2.7	VR-3X-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	2.84 A	1.62 A	1.46 A	1.21 A	0.98 A	0.85 A	0.70 A
BROAD R4	AC Power	341 W	336 W	335 W	336 W	341 W	340 W	334 W
BROAD R6	AC Current	2.65 A	1.51 A	1.36 A	1.13 A	0.91 A	0.79 A	0.65 A
	AC Power	318 W	313 W	312 W	312 W	317 W	317 W	313 W
BROAD R8	AC Current	2.67 A	1.51 A	1.36 A	1.13 A	0.92 A	0.80 A	0.66 A
	AC Power	320 W	315 W	314 W	314 W	319 W	319 W	315 W
DUAL R9B High Efficacy	AC Current	2.74 A	1.55 A	1.40 A	1.16 A	0.94 A	0.82 A	0.67 A
	AC Power	328 W	323 W	322 W	322 W	328 W	327 W	323 W
DUAL R9B	AC Current	2.74 A	1.56 A	1.40 A	1.17 A	0.95 A	0.82 A	0.67 A
	AC Power	329 W	324 W	323 W	323 W	328 W	328 W	324 W
DUAL R5B	AC Current	2.76 A	1.57 A	1.41 A	1.17 A	0.95 A	0.82 A	0.68 A
	AC Power	331 W	326 W	325 W	324 W	330 W	330 W	326 W

* At 77°F (25°C) ambient temperature

DIMENSIONS AND WEIGHT

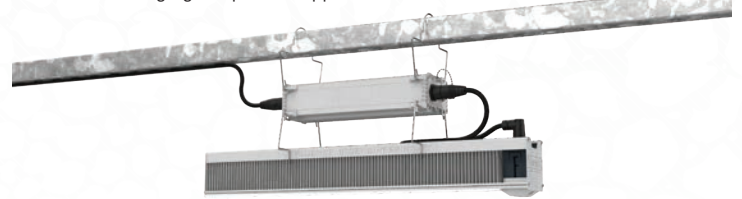
PART	SKU Abb.	Length	Width	Height	Weight
VYPR 3x Light Fixture	VR-3X-XXX	24.09" 612 mm	2.91" 74 mm	3.23" 82 mm	4.8 lb 2.2 kg
Power Supply PSU2 LVG 320 W, 120-277 V AC	VR-3X-xxx-LVG	12.60" 320 mm	4.29" 109 mm	2.56" 65 mm	4.9 lb 2.3 kg
Power Supply PSU2 HVE 320 W, 347-400 V AC	VR-3X-xxx-HVE	12.60" 320 mm	4.29" 109 mm	2.56" 65 mm	4.9 lb 2.3 kg
Power Supply PSE HV 320 W, 480 V AC	VR-3X-xxx-5	21.87" 555 mm	6.24" 159 mm	2.88" 73 mm	8.2 lb 3.7 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.



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.



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

© Copyright 2021 Fluence Bioengineering 2021-03

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	
VR VYPR	3X Gen 3X	BW3	BROAD R3 (Greenhouse)	LVG	120-277 V AC	B	Bulk Pack
		BW4	BROAD R4 (Indoor)	HVE	347-400 V AC	S	Single Pack
		BP6	BROAD R6	5	480 V AC		
		BP8	BROAD R8				
		HR9	DUAL R9B High Efficacy				
		DR9	DUAL R9B				
		DR5	DUAL R5B (Antho)				

PhysioSpec™ SPECTRUM	SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply		
				PSU2 LVG 320 W 120-277 V AC	PSU2 HVE 320 W 347-400 V AC	PSE2 HV 320 W 480 V AC
BROAD R3 (Greenhouse)	VR-3X-BW3	10542	6.2 A	71531	71534	10289
BROAD R4 (Indoor)	VR-3X-BW4	10543				
BROAD R6	VR-3X-BP6	10519				
BROAD R8	VR-3X-BP8	10518	5.9 A	10534	10535	10546
DUAL R9B High Efficacy	VR-3X-HR9	10533				
DUAL R9B	VR-3X-DR9	10517				
DUAL R5B (Antho)	VR-3X-DR5	10530				

ORDERING CODES FOR ACCESSORIES

MOUNTING HARDWARE	Quantity per Light Fixture	Power Supply PSU2 LVG 320 W 120-277V AC	Power Supply PSU2 HVE 320 W 347-400 V AC	Power Supply PSE2 HV 320 W 480V AC	Ordering Code	QTY/ Carton
Unistrut Wire Hanger (for strut width ≤ 1-5/8" / 45 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10120-20	20 Kits
Pipe Wire Hanger (for pipe diameter ≤ 1-3/4" / 45 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10121-20	20 Kits
Square Wire Hanger (for truss width ≤ 2-3/4" / 70 mm)	1 Kit	1 Kit	1 Kit	N/A	AMV2-10119-20	20 Kits
Combo Mount Wire Hanger	1 Kit	1 Kit	1 Kit	N/A	AMV3-10569-20	20 Kits
VYPR Perpendicular Mount Wire Hanger (for strut 25x50 mm)	1 Kit	N/A	N/A	N/A	AMV3-10572-20	20 Kits
VYPR Parallel Mount Bracket (for strut 25x50 mm)	1 Kit	N/A	N/A	N/A	AMV3-10571-20	20 Kits
PSE2 HV 480V 320W Power Supply Pipe Wire Hanger	N/A	N/A	N/A	1 Kit	AMPS-10570-20	20 Kits
PSU2 LVG, HVE 320W Power Supply Surface Mount Kit	N/A	1 kit	1 kit	N/A	AMPS-10491-10	10 Kits
VYPR 3X Reflector Kit 22-inch	1 kit	N/A	N/A	N/A	ARV2-10464-40	40 Kits
		N/A	N/A	N/A	ARV2-10516-10	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 - AMERICAS (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 - AMERICAS (Power Supply to Dimming Control)	Quantity per Power Supply	Ordering Code	QTY/ Carton
11-IN (0.28 m) dimming signal cable, pigtail, M12 connector (for PSU2)	1 pc	CDMA-71561-10	10
5-FT (1.52 m) dimming signal cable, pigtail, M12 connector (for PSU2)	1 pc	CDMA-71560-10	10
10-IN (0.25 m) dimming signal cable, pigtail, M16 connector (for PSE2 HV 480V)	1 pc	CDMA-70972-10	10
5-FT (1.52 m) dimming signal cable, pigtail, M16 connector (for PSE2 HV 480V)	1 pc	CDMA-71388-10	10