

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.

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 μ mol/J High PPF up to 2330 μ mol/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.



VYPR 3p led top light eu



BYOSRAM

| 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™ | | @230 V AC | | | | SKU |
|------------------------|--------------------------------|-----------|-----|-----------------|-----|-----------|
| SPECTRUM | PPF (400-700 nm) (µmol/s) | | | AC Power (W) | | |
| 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) | | | | | | SKU ABBR. |
|-------------------------|---|-----|-----|-----|-----|-----|--------------|
| 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 | 2,72 A | 1,54 A |
| BROAD R4 | AC Power | 625 W | 618 W |
| BROAD R6 | AC Current | 2,67 A | 1,52 A |
| DNUAU NO | AC Power | 614 W | 607 W |
| DDOAD DC . For Dod | AC Current | 2,71 A | 1,54 A |
| BROAD R6 + Far Red | AC Power | 624 W | 617 W |
| BROAD R8 | AC Current | 2,70 A | 1,53 A |
| BRUAD R8 | AC Power | 621 W | 614 W |
| DUAL R9B | AC Current | 2,71 A | 1,54 A |
| High Efficacy | AC Power | 624 W | 617 W |
| DIIAI DOD | AC Current | 2,72 A | 1,54 A |
| DUAL R9B | AC Power | 625 W | 618W |
| DIIAI DED | AC Current | 2,70 A | 1,54 A |
| DUAL R5B | 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 42,33" | 74 mm 2,91" | 82 mm 3,23" | 3,5 kg 7,8 lb | | | |
| Power Supply PSU2 LVG 600W 120-277 V AC | VR-3P-xxx-LVG | 341 mm 13,43" | 134 mm 5,26" | 65 mm 2,56" | 3,2 kg 7,1 lb | | | |
| Power Supply PSU2 HVE 600W 347-400 V AC | VR-3P-xxx-HVE | 311 mm 12,24" | 134 mm 5,26" | 65 mm 2,56" | 2,9 kg 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







VYPR PARALLEL MOUNT



VYPR PERPENDICULAR MOUNT



COMBO MOUNT 400 V AC INPUT VOLTAGE ONLY



Contact FLUENCE@

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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 $\pm 10\%$ Horticultural lighting | Not suitable for household illumination.





SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY

| FAMILY | MODEL | PhysioSpec™ SPECTRUM | INPUT VOLTAGE | PACKAGING |
|---------|-------|---|------------------------------|---------------------------|
| VR VYPR | | BW3 BROAD R3 BW4 BROAD R4 BP6 BROAD R6 B6F BROAD R6 + Far Red BP8 BROAD R8 HR9 DUAL R9B High Efficacy DR9 DUAL R9B DR5 DUAL R5B | LVG 230 V AC HVE 400 V AC | B Bulk Pack S Single Pack |

| PhysioSpec™ SPECTRUM Sk | | Part Number Light Fixture | | Part Number - Power Supply | | |
|-------------------------|------------------|------------------------------|------------|----------------------------|----------------------------|--|
| | SKU Abbreviation | | DC Current | PSU2 LVG 600 W 230 V AC | PSU2 HVE 600 W 400 V AC | |
| BROAD R3 | VR-3P-BW3 | 10396 | | | | |
| BROAD R4 | VR-3P-BW4 | 10397 | 11,7 A | 71530 | 71533 | |
| BROAD R6 | VR-3P-BP6 | 10500 | | | | |
| BROAD R6 + Far Red | VR-3P-B6F | 10612 | | | | |
| BROAD R8 | VR-3P-BP8 | 10499 | | 10506 105 | | |
| DUAL R9B High Efficacy | VR-3P-HR9 | 10532 | 11,4 A | | 10507 | |
| DUAL R9B | VR-3P-DR9 | 10498 | | | | |
| DUAL R5B | VR-3P-DR5 | 10501 | | | | |

ORDERING CODES FOR ACCESSORIES

| MOUNTING HARDWARE | Quantity per Light Fixture | Power Supply PSU2 LVG 600 W | Power Supply PSU2 HVE 600 W | Ordering Code | QTY/ Carton |
|---|-------------------------------|--------------------------------|--------------------------------|---------------|-------------|
| Unistrut Wire Hanger (for strut width ≤ 45 mm / 1-5/8") | 1 Kit | 1 Kit | 1 Kit | AMV2-10120-20 | 20 Kits |
| Pipe Wire Hanger (for pipe diameter ≤ 45 mm / 1-3/4") | 1 Kit | 1 Kit | 1 Kit | AMV2-10121-20 | 20 Kits |
| Square Wire Hanger (for truss width ≤ 70 mm / 2-3/4") | 1 Kit | 1 Kit | 1 Kit | AMV2-10119-20 | 20 Kits |
| Combo Mount Wire Hanger (For AC Input Voltage 400 V ONLY) | 1 Kit | 1 Kit | 1 Kit | AMV3-10569-20 | 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 Parallel Mount Bracket (for strut 25 x 50 mm) | 1 Kit | N/A | N/A | AMV3-10571-20 | 10 Kits |
| VYPR 3P Reflector Kit 20-inch | 2 Kits | N/A | N/A | ARV3-10529-40 | 40 Kits |
| VIFN 3F Nellector Kit 20-IIICII | Z NIIS | N/A | N/A | ARV3-10529-10 | 10 Kits |
| DC POWER CARLES (Fixture to Power Supply) | | Quantity per Light | Fixture Orde | ring Code | ΩTY/ Carton |

| DC POWER CABLES (Fixture to Power Supply) | Quantity per Light Fixture | Ordering Code | QTY/ Carton |
|---|----------------------------|---------------|-------------|
| 0,91 m (3 FT) DC Cable, M19 Push Lock | 1 pc | CDCG-70720-10 | 10 pcs |
| 1,83 m (6 FT) DC Cable, M19 Push Lock | 1 pc | CDCG-70721-10 | 10 pcs |
| 46 cm (18 IN) Right Angle DC cable, M19 Push Lock - for Combo Mount, VYPR 3 Parallel Mount | 1 pc | CDCG-71591-10 | 10 pcs |
| AC POWER CABLE - EUROPE (Power Supply to AC Line) | Quantity per Power Supply | Ordering Code | QTY/ Carton |
| 1.83 m (6 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230 V AC | 1 pc | CACE-70774-10 | 10 pcs |

| AC POWER CABLE - EUROPE (Power Supply to AC Line) | Quantity per Power Supply | Ordering Code | QTY/ Carton |
|--|---------------------------|---------------|-------------|
| 1,83 m (6 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230 V AC | 1 pc | CACE-70774-10 | 10 pcs |
| 1,83 m (6 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries) | 1 pc | CACE-71161-10 | 10 pcs |
| 4,57 m (15 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230 V AC | 1 pc | CACE-70775-05 | 5 pcs |
| 4,57 m (15 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries) | 1 pc | CACE-71162-05 | 5 pcs |
| 70 cm (27,6 IN) AC Cable, Dca, pigtail, M19 Push Lock (400V CE application) | 1 pc | CACE-71411-10 | 10 pcs |
| 80 cm (31,5 IN) AC Cable, Dca, pigtail (use with adapter cable) Wieland connector Part #: 20i30F B2 ZR1S H GN02 (Female) | 1 pc | CACE-71650-10 | 10 pcs |
| Wieland AC Connector Adapter for Power Supply, Dca cable, M19 Push Lock, 20 cm (8 IN), Wieland Part #: RST20i3F S2 ZR1SVH GN0 (Male) | 1 pc | CACE-71576-10 | 10 pcs |
| DC DIMMING SIGNAL CABLE - EUROPE (Power Supply to Dimming Control) | Quantity per Power Supply | Ordering Code | QTY/ Carton |
| 80 cm (31,5 IN) dimming signal cable, Cca, pigtail, M12 connector | 1 pc | CDME-71526-10 | 10 |





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