



# SG4

PRODUCT FAMILY  
& ACCESSORIES



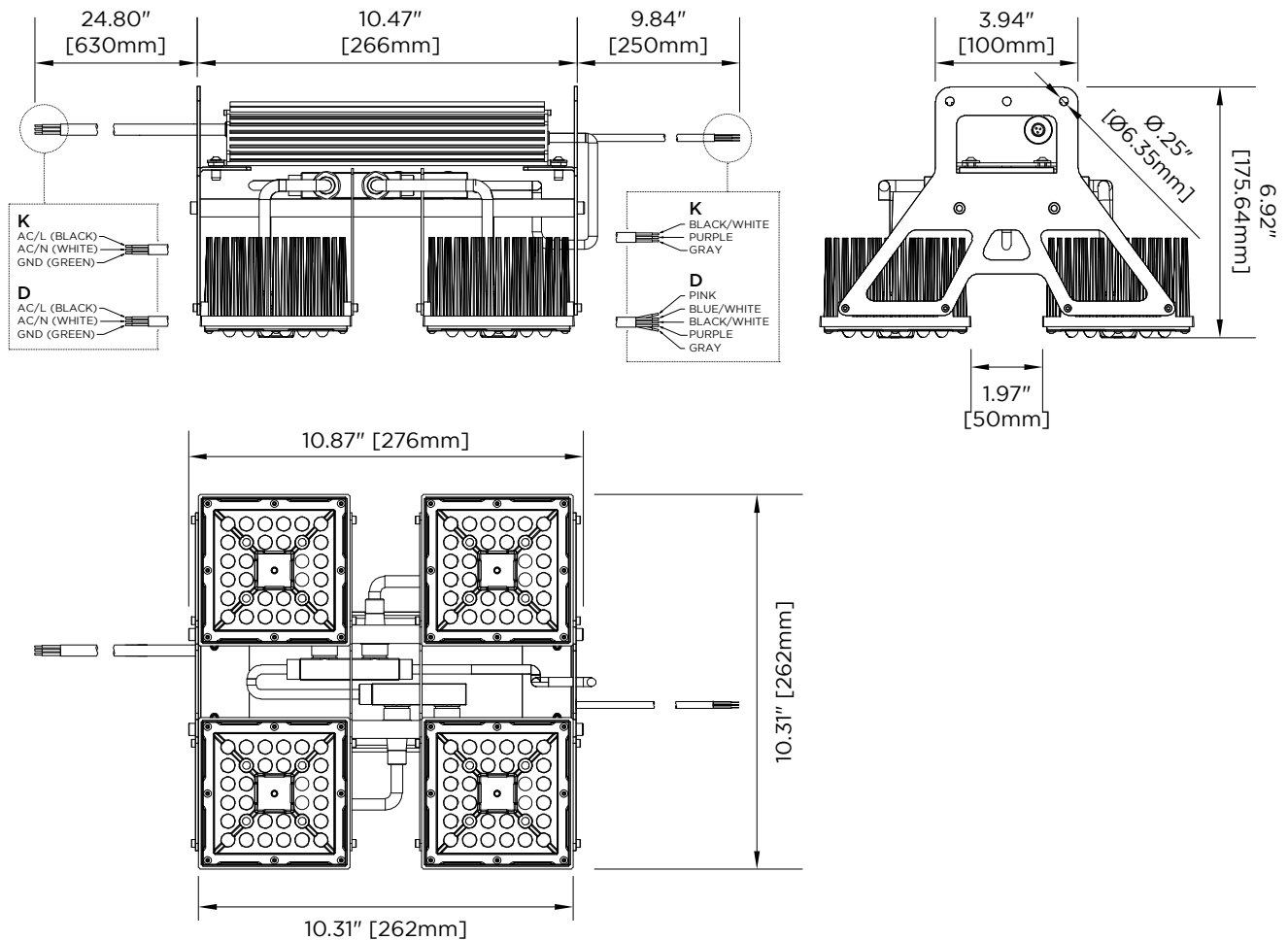
**Precision LED Systems**  
for Controlled Environment Agriculture

# PRODUCT FAMILY & ACCESSORIES

## Installation

Mechanical fixation by hanging cables or chains and hooks or toggles.  
Optional Y-toggle cable kit available (TA-12SET-2).

## Mechanical Outline

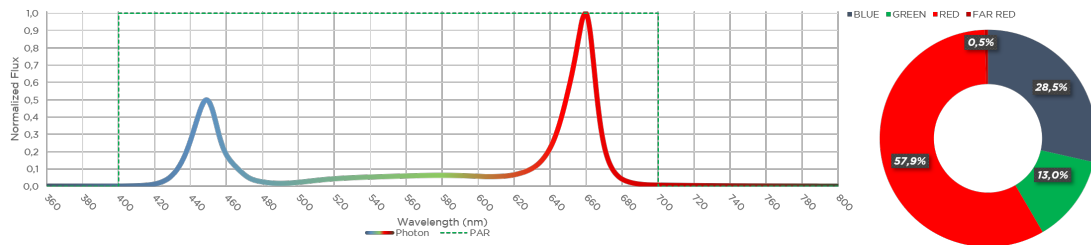


| DIMENSIONS AND WEIGHT |                 |                   |            |                  | PACKAGING         |              |                   |
|-----------------------|-----------------|-------------------|------------|------------------|-------------------|--------------|-------------------|
| Length                | Width           | Height            | Net Weight |                  | Dimensions        | Gross Weight |                   |
| 10.47"<br>266mm       | 10.31"<br>262mm | 6.90"<br>175.33mm | K          | 8.73lbs (3.96Kg) | 1.22"x1.22"x1.10" | K            | 10.27lbs (4.66Kg) |
|                       |                 |                   | D          | 9.49lbs (4.60Kg) | 310x310x280mm     | D            | 11.68bs (5.30Kg)  |

## Spectra

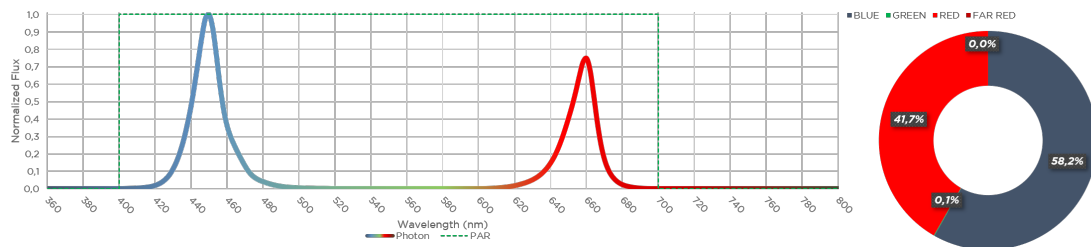
### General Purpose (**GP\_HE\_RBW**) - High Efficacy comfortable light

- Greenhouses
- General Purpose



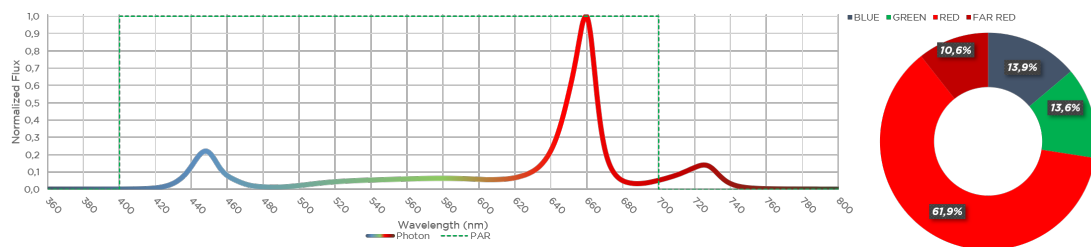
### Vegetative Red & Blue (**VEG\_HE\_RB**) - Vegetative Spectrum

- Greenhouses
- Cannabis Veg Rooms



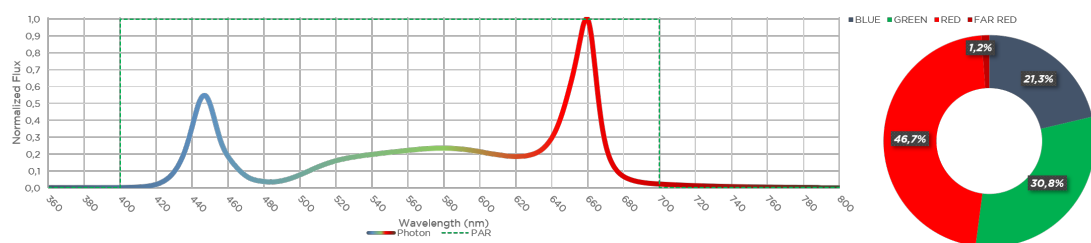
### Flowering Far Red (**FLO\_RBW+FR**) - Flowering Spectrum

- Greenhouses
- Indoor Farms
- Cannabis Flower Rooms

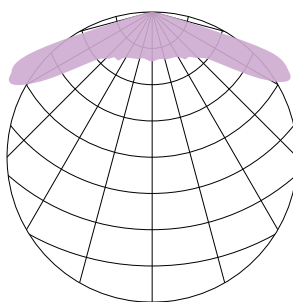
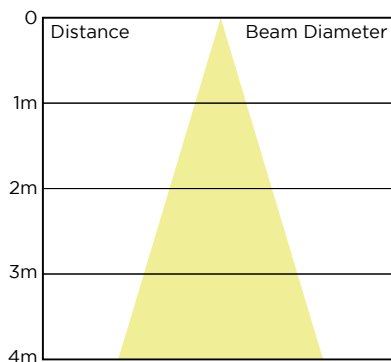


### Indoor General Purpose (**GP\_White**) - Broad spectrum eye friendly

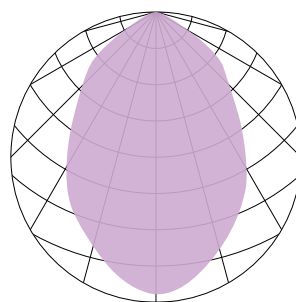
- Indoor Farms
- General Purpose



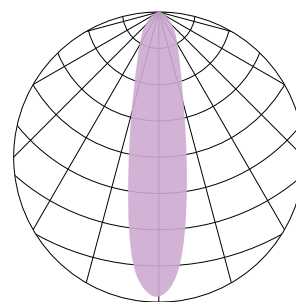
## Light Distributions



CC - Close Canopy



TC - Top Canopy



HC - High Canopy

| Distance     | Spectrum   | CC                                        |                 | TC                                        |                | HC                                        |               |
|--------------|------------|-------------------------------------------|-----------------|-------------------------------------------|----------------|-------------------------------------------|---------------|
|              |            | CENTER BEAM PFD at 380-780nm (μmols/s/m²) | BEAM DIAMETER   | CENTER BEAM PFD at 380-780nm (μmols/s/m²) | BEAM DIAMETER  | CENTER BEAM PFD at 380-780nm (μmols/s/m²) | BEAM DIAMETER |
| 3.28'<br>1m  | GP_HE_RBW  | 46                                        | 11.48'<br>3.5m  | 434                                       | 4.92'<br>1.5m  | 1464                                      | 1.64'<br>0.5m |
|              | VEG_HE_RB  | 48                                        |                 | 455                                       |                | 1535                                      |               |
|              | GP_White   | 42                                        |                 | 395                                       |                | 1333                                      |               |
|              | FLO_RBW+FR | 44                                        |                 | 415                                       |                | 1401                                      |               |
| 6.56'<br>2m  | GP_HE_RBW  | 11                                        | 23.29'<br>7.1m  | 108                                       | 9.84'<br>3.0m  | 366                                       | 3.28'<br>1.0m |
|              | VEG_HE_RB  | 12                                        |                 | 114                                       |                | 384                                       |               |
|              | GP_White   | 10                                        |                 | 99                                        |                | 333                                       |               |
|              | FLO_RBW+FR | 11                                        |                 | 104                                       |                | 350                                       |               |
| 9.84'<br>3m  | GP_HE_RBW  | 5                                         | 34.77'<br>10.6m | 48                                        | 14.76'<br>4.5m | 163                                       | 4.92'<br>1.5m |
|              | VEG_HE_RB  | 5                                         |                 | 51                                        |                | 171                                       |               |
|              | GP_White   | 5                                         |                 | 44                                        |                | 148                                       |               |
|              | FLO_RBW+FR | 5                                         |                 | 46                                        |                | 156                                       |               |
| 13.12'<br>4m | GP_HE_RBW  | 3                                         | 46.26'<br>14.1m | 27                                        | 19.69'<br>6.0m | 91                                        | 6.56'<br>2.0m |
|              | VEG_HE_RB  | 3                                         |                 | 28                                        |                | 96                                        |               |
|              | GP_White   | 3                                         |                 | 25                                        |                | 83                                        |               |
|              | FLO_RBW+FR | 3                                         |                 | 26                                        |                | 88                                        |               |

## Specifications\*

| SG4                              |             | GP_HE_RBW  | VEG_HE_RB | GP_White | FLO_RBW+FR |
|----------------------------------|-------------|------------|-----------|----------|------------|
| Nominal Power (W)                |             | 300        | 300       | 300      | 290        |
| Input Voltage                    | 50/60Hz     | 100-277Vac |           |          |            |
| Max. Input Current               | 120Vac      | 2.80       |           |          | 2.63       |
|                                  | 220Vac      | 1.49       |           |          | 1.38       |
| Power Factor                     |             | > 0.90     |           |          |            |
| Max. Inrush Current              | 220Vac/25°C | 1.3A²s     |           |          |            |
| Photon Flux - PPF (μmols/s)      | 400-700nm   | 693        | 730       | 626      | 596        |
| Total Photon Flux - PF (μmols/s) | 360-780nm   | 696        | 730       | 634      | 666        |
| PF efficacy (μmols/J)            | 360-780nm   | 2.32       | 2.43      | 2.11     | 2.30       |

\*Accurate ±10%

|                       |                      |               |                                                 |
|-----------------------|----------------------|---------------|-------------------------------------------------|
| Suitable Area         | Dry/Damp/Wet         | Lifetime (h)  | >50,000                                         |
| Cooling               | Passive              | Warranty      | 5 years                                         |
| Operating Environment | 0°C to 40°C / 95% RH | Certification | UL 1598/UL 8800<br>CSA C22.2#250.0<br>IEC 62471 |
| Dimming*              | 0-10V (10%-100%)     |               |                                                 |

\*Optional Dim-to-off (0%-100%)capable model (D type) available by request.

## Example & Ordering Code

**SG4**

**GP\_HE\_RBW**

**CC**

**K**

SPECTRA

General Purpose = **GP\_HE\_RBW**

Flowering Far Red = **FLO\_RBW+FR**

Vegetative Red & Blue = **VEG\_HE\_RB**

Indoor General Purpose = **GP\_White**

LIGHT DISTRIBUTION

CLOSE CANOPY = **CC**

TOP CANOPY = **TC**

HIGH CANOPY = **HC**

DRIVER AND INPUT OPTION

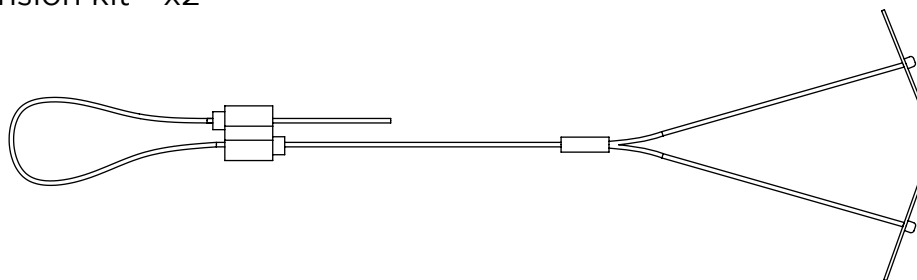
K type with 630mm input flying leads and 250mm dimming cable = **K**

D type with 630mm input flying leads and 250mm dimming cable = **D**

## ACCESSORIES

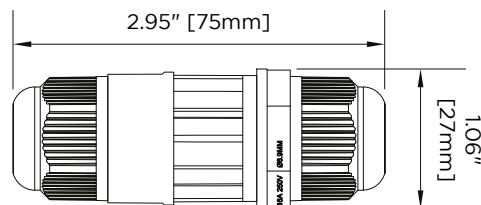
### Specifications

SG-4 Suspension kit - x2



|                    |            |                |          |
|--------------------|------------|----------------|----------|
| Max Load           | 60lbs/27Kg | Certifications | UL/Dekra |
| Max hanging length | 60"/1524mm |                |          |

## Splices



|                       |                             |
|-----------------------|-----------------------------|
| <b>Input Splice</b>   | 3 cores for 7.8-9.0mm cable |
| <b>Dimming Splice</b> | 3 cores for 5.0-7.0mm cable |

|             |        |                |               |
|-------------|--------|----------------|---------------|
| Max Current | 16A    | Weight         | 0.08lbs/35grs |
| Max Voltage | 380Vac | Certifications | UL/CE/VDE     |
| IP Rating   | IP68   |                |               |

## Input Cable

|                     |                  |                |         |
|---------------------|------------------|----------------|---------|
| Cable specification | UL SJTW 3x18 AWG | Certifications | UL SJTW |
| Cable width         | 7.8mm            |                |         |

## Dimming Cable

|                     |                  |                |         |
|---------------------|------------------|----------------|---------|
| Cable specification | UL 21996 3x22AWG | Certifications | UL21996 |
| Cable width         | 5.0mm            |                |         |

## Order Code Table

| UNIT | ORDER CODE   | DESCRIPTION         | COMPONENTS                             |
|------|--------------|---------------------|----------------------------------------|
| kit  | TA-12SET-2   | SG-4 Suspension kit | 2 Y cable toggles + 2 looping grippers |
| pc   | LY-077-3-DIM | Dimming Splice      | Splice adaptor for 3 wires             |
| pc   | LY-077-3-IN  | Input Splice        | Splice adaptor for 3 wires             |
| reel | 3x18AWG      | Input Cable         | 305m reel UL SJTW 3x18AWG/7.8mm        |
| reel | 3x22AWG      | Dimming Cable       | 610m reel UL21996 3x22AWG/5.0mm        |

***All specifications are subject to change. All numbers are typical.***



**5019167**

Conforms to  
ANSI/CAN/UL Std. 8800  
UL Std. 1598  
Certified to CSA Std. C22.2#250