Luminus Horticulture Starboards
Industry Leading High Powered LED Starboards

Lean & Fast
- Industry leading efficiency across the spectrum of high power color and white LEDs
- Horticulture LEDs specifically selected for the highest performance at a given color
- Light output and efficiency evaluated at elevated drive current and temperature
- Specific wavelengths targeted within the PAR range for optimized plant growth
- Create multiple spectral configurations quickly and easily

Made Smarter
Ideal for horticulture lighting applications, the Opulent Americas starboards, built with high power white and color LED technology, deliver high efficacy across the PAR range. Specifically selected from a portfolio of color options for various stages of plant growth, including white light to achieve a similar outcome to natural sunlight. The variety of color options and easy set-up allow for flexibility, quick adjustments to support different growth phases, rapid prototyping and sampling of the latest LEDs in an easy to use footprint.

Spectral Power Distribution

- UV 365-405nm
- Deep Blue 455nm
- Green 530nm
- Hyper Red 655nm
- Far Red 735nm

RoHS

### Luminus Horticulture Starboards

#### Product Selection Guide

<table>
<thead>
<tr>
<th>Color</th>
<th>Part Number</th>
<th>Description</th>
<th>Beam Angle</th>
<th>Peak Wave length</th>
<th>Vf</th>
<th>Flux (mW)</th>
<th>μMol/s</th>
<th>μMol/J</th>
<th>μMol/s</th>
<th>μMol/J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep Blue</td>
<td>LST1-01G01-RYL1-00</td>
<td>Starboard, Luminus SST-10-G-B130, 450nm Deep Blue</td>
<td>130°</td>
<td>450nm</td>
<td>3.00</td>
<td>600</td>
<td>2.26</td>
<td>2.15</td>
<td>4.01</td>
<td>1.83</td>
</tr>
<tr>
<td>Green</td>
<td>LST1-01G01-GRN1-00</td>
<td>Starboard, Luminus SST-10-G-B130, 527nm Green</td>
<td>130°</td>
<td>527nm</td>
<td>3.40</td>
<td>270</td>
<td>1.18</td>
<td>0.99</td>
<td>2.10</td>
<td>0.87</td>
</tr>
<tr>
<td>Deep Red</td>
<td>LST1-01G01-PRD1-00</td>
<td>Starboard, Luminus SST-10-DR-B130, 660nm Deep Red</td>
<td>130°</td>
<td>660nm</td>
<td>2.05</td>
<td>370</td>
<td>2.03</td>
<td>2.83</td>
<td>3.68</td>
<td>2.27</td>
</tr>
<tr>
<td>Far Red</td>
<td>LST1-01G01-FRD1-00</td>
<td>Starboard, Luminus SST-10-DR-B130, 730nm Far Red</td>
<td>130°</td>
<td>730nm</td>
<td>2.10</td>
<td>310</td>
<td>1.88</td>
<td>2.55</td>
<td>3.40</td>
<td>2.33</td>
</tr>
</tbody>
</table>

All values shown above are typical.

### Mechanical Dimensions

[Diagram of mechanical dimensions]

### About Opulent Americas

Opulent Americas, part of Singapore based Opulent Group, is a fully integrated, global manufacturer for the lighting, automotive and medical industries. Through 30 years of manufacturing experience and state-of-the-art facilities, the company offers leading solid state lighting components and modules. The NC-based office provides quick engineering & sales support with an R&D lab to provide prototype development and custom solutions. See Opulent-Americas.com for more information.

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**WARNING**

UV LIGHT
Do not look into the light emitting from these LEDs as it is harmful to the human eye. Eye injury may result. Use skin and eye protection as necessary.