

## ORION 12 LM-120-W3

|                                     |  |                      |  |
|-------------------------------------|--|----------------------|--|
| High reliability<br>Samsung<br>LEDs | <b>115</b><br>LM/W                         | <b>158°</b><br>      | <b>CC</b><br>Constant<br>current<br>driver             |
| <b>LM80</b><br>Rated                | Flame<br>retardant<br><b>RESIN</b><br>body | <br>One color<br>bin | <b>3M</b><br>double-sided<br>adhesive tape<br>attached |



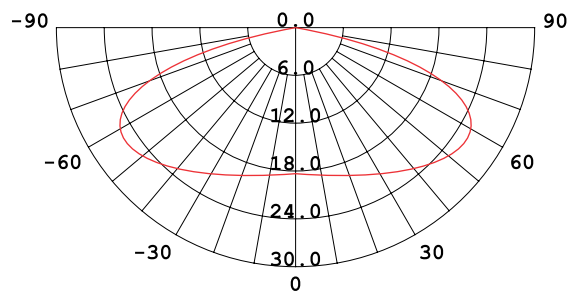
### Product ratings

|                           |  |
|---------------------------|--|
| LED Type                  | 5630 (SAMSUNG LED)                                     |
| Luminous efficacy         | 115 lm/W   |
| Typical luminous flux, lm | 136 lm   |
| Max. Wattage per module   | 1.2 W (1.2 W Nom.)                                     |
| Input current             | 0.1 A/module   |
| Ingress protection        | IP67   |
| Mounting                  | Double-sided adhesive tape<br>and mounting screw holes |
| Operating temperature     | -30°C ~ +60°C  |
| L70 lifetime              | > 60.000 hours<br>(based on IES TM-21-11)              |
| Warranty                  | 5 years limited  |

### Applications

Typically used in medium size signage  
 Can depth/returns: 150 - 300 mm  
 Letters with stroke width of approx. 150~300 mm  
 Shallow-medium depth light boxes  
 Double-sided projecting signs

### Luminous intensity distribution



### Power supply load chart

| Plastic case power supply      | Maximal quantity of modules | Maximal quantity of modules per string | Maximal length of module chain, meters |
|--------------------------------|-----------------------------|--|--|
| 18W                            | 15                          | 15                                     | 3,9                                    |
| 60W                            | 50*                         | 30                                     | 13                                     |
| 100W                           | 83*                         | 30                                     | 21,6                                   |
| <b>Metal case power supply</b> |                             |  |  |
| 40W                            | 33*                         | 30                                     | 8,6                                    |
| 80W                            | 66*                         | 30                                     | 17,1                                   |
| 120W                           | 100*                        | 30                                     | 26                                     |
| 240W                           | 200*                        | 30                                     | 52                                     |
| 320W                           | 266*                        | 30                                     | 69,1                                   |
| 480W                           | 400*                        | 30                                     | 104                                    |

\*wired in parallel strings

### Maximum wire length from modules to power supply

| Gauge (AWG) | Wire cross-section (mm <sup>2</sup> ) | Maximal distance from power supply to LED load at full capacity (m) |
|-------------|---------------------------------------|---|
| 26          | 0,13                                  | 0,9   |
| 24          | 0,21                                  | 1,2   |
| 22          | 0,33                                  | 2,1   |
| 20          | 0,52                                  | 3,4   |
| 18          | 0,82                                  | 5,5   |
| 16          | 1,31                                  | 8,8   |
| 14          | 2,08                                  | 13,7  |
| 12          | 3,31                                  | 21,6  |
| 10          | 5,26                                  | 36,6  |

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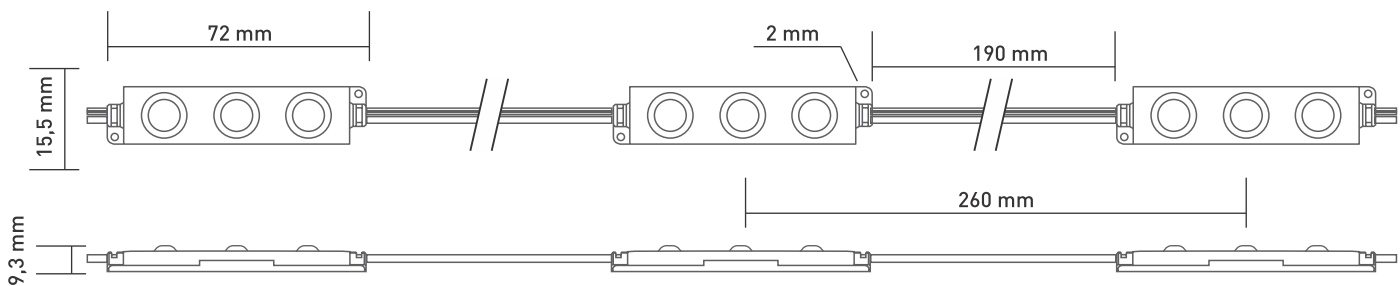
### Ordering information

| Module version  | White color temperature | Availability           | Minimal number of modules per meter | Nominal light output per module ( $\pm 10\%$ ) | Minimal light output per meter ( $\pm 10\%$ ) |
|-----------------|-------------------------|------------------------|-------------------------------------|--|---|
| LM-120-W3       | 6500K                   | stock item             | 4                                   | 136  | 544   |
| LM-120-W3(5700) | 5700K                   | available on pre-order | 4                                   | 127  | 508   |
| LM-120-W3(5000) | 5000K                   | available on pre-order | 4                                   | 130  | 520   |
| LM-120-W3(4000) | 4000K                   | available on pre-order | 4                                   | 127  | 508   |
| LM-120-W3(3500) | 3500K                   | available on pre-order | 4                                   | 124  | 496   |
| LM-120-W3(3000) | 3000K                   | available on pre-order | 4                                   | 122  | 488   |
| LM-120-W3(2700) | 2700K                   | available on pre-order | 4                                   | 121  | 484   |

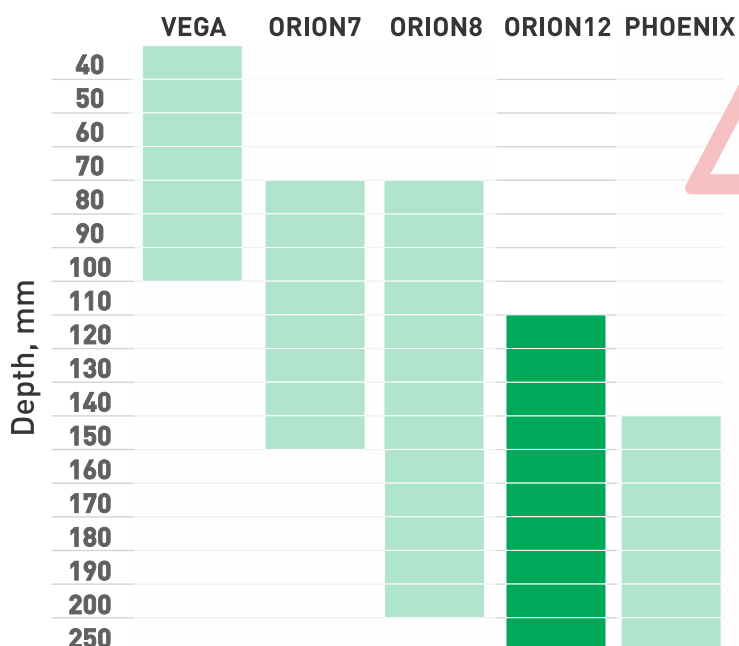
### Shipping information

|                          |                         |                         |                 |
|--------------------------|-------------------------|-------------------------|-----------------|
| Anti-static bag quantity | 30 (1 chain)            | Inner box dimensions    | 41 x 24 x 10 cm |
| Inner box quantity       | 180 (6 antistatic bags) | Inner box weight        | 2.7 kgs         |
| Outer carton quantity    | 900 (5 inner boxes)     | Carton weight           | 15 kgs          |
|                          |                         | Outer carton dimensions | 52 x 42 x 26 cm |

### Technical drawing and dimensions



### Luminaire modules for various depths



- This product is only suitable for connection to dedicated Class 1 or Class 2 power supplies rated DC12V ( $\pm 5\%$ )
- This product is not to draw a total wattage of greater than the secondary (output) rating of the power supply
- Double-sided adhesive tape is for placement of the module only and additional fixation is needed
- This product is suitable for use in dry, damp and wet locations, but not suitable for submersed application
- Specifications of the products might change without further notice. Make sure to use the most recent datasheet version.

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