For further help regarding installation visit lumino.lighting

***OPTIONAL ACCESSORIES***
- VECA-CA901-R1  IDC Sealant Connector (pair of)
- VECA-CA100-R1  1000mm Inter connector lead M&F Standard 2 Pin

***ESSENTIAL ACCESSORIES***
- V20S-MA520-R1  V20 Fixed Mount
- V20S-MA620-R1  V20 Rotation Mount

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**CHECK!**

1. TURN OFF POWER! COUPER LE COURANT! STROM ABHALTEN! CORTE CORRIENTE!
2. Check the Wall! VÉRIFIER LE MUR! DIE WAND ÜBERPRÜFEN! COMPRUEBE LA PARED!
3. Max Screw 4mm Diameter

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**Damage will be caused by incorrect input voltage or short circuit**
- Ensure access and sufficient free moving air space around products and drivers
- Products and power supply gear must not be live wired
- Shielded pair of cables will be required for dimming control signal if applicable
- Plan for loads, driver locations, dimming and suitable cable prior to installing
- For technical assistance contact your local Lumino distributor.
- Use only with class 2 power unit to UL 1310 standard
- Use only with maximum output 24VDC voltage Class 2 power unit

**2**

**24 VDC**

**Max Screw 4mm Diameter**

**3 x per meter**
Installation must be carried out by qualified electrician.

Electrical work to be conducted in accordance with local regulations.

Power must be disconnected prior to installation work.

Ensure free-moving air space around LEDs and drivers.

Protect the LEDs from dust and paint during installation and use.

Plan for loads, driver locations, cables sizes etc prior to installation.

Shielded control pair required for dimming signal wires.

Incorrect voltage, reverse polarity or short circuit will cause damage.

24VDC power supply max. cable length guide*

<table>
<thead>
<tr>
<th>Vector Power</th>
<th>Vector Length</th>
<th>Vector Current</th>
<th>0.3mm² 22AWG</th>
<th>0.8mm² 18AWG</th>
<th>1.3mm² 16AWG</th>
<th>2.0mm² 14AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>24W/m 1.5W/ft</td>
<td>1m / 3.3'</td>
<td>0.21A</td>
<td>32m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 2W/ft</td>
<td>2m / 6.6'</td>
<td>0.42A</td>
<td>16m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 3W/ft</td>
<td>3m / 9.8'</td>
<td>0.63A</td>
<td>10m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 4W/ft</td>
<td>4m / 13.1'</td>
<td>0.83A</td>
<td>8m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 5W/ft</td>
<td>5m / '16.4'</td>
<td>1.04A</td>
<td>6m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 6W/ft</td>
<td>6m / 19.7'</td>
<td>1.25A</td>
<td>5m</td>
<td>42m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 7.2W/ft</td>
<td>1m / 3.3'</td>
<td>1.0A</td>
<td>6m</td>
<td>50m</td>
<td>50m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 7.2W/ft</td>
<td>2m / 6.6'</td>
<td>2.0A</td>
<td>3m</td>
<td>26m</td>
<td>44m</td>
<td>50m</td>
</tr>
<tr>
<td>24W/m 7.2W/ft</td>
<td>3m / 9.8'</td>
<td>3.0A</td>
<td>1m</td>
<td>17m</td>
<td>28m</td>
<td>44m</td>
</tr>
</tbody>
</table>

Installers must ensure voltage drop does not exceed 5%.

*EMI Emission

Use 24VDC drivers with overload and short-circuit protection. Rate drivers for at least 10% above load.

USA & Canada: Use only with Class 2 power unit to UL1310 standard. Use only with maximum output 24VDC voltage Class 2 power unit.

Installers must ensure EMI emissions do not exceed local regulated limits.

Shielded cables and ferrite coils can be used where applicable. Vector interconnector cables are 22AWG.

Reduce max. cable lengths by 10% if dimming.

Constant voltage LED drivers can have high inrush current at power-on. Driver inrush current can be many times the normal operating current. Use a suitable MCB. Type C MCBs are normally suitable but if inrush current is a persistent problem an inrush suppressor may be required.

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