



## SOLAR LIGHT POLE

# mira 4000 twin P200-160

### PRELIMINARY DATA SHEET

**Self-sufficient and maintenance-free solar light pole with award winning, protected design, ideal for outdoor residential and municipal lighting.**

Light source	<b>2x 6 high-efficiency LEDs</b>
Max. LED power	<b>2 x 75 Watt</b>
SOP Solar Operating Power	<b>2 x 20 Watt</b>
Max. luminous flux @ SOP	<b>2x 3,150 lm</b>
Luminaire efficacy	<b>160 lm/W</b>
Nominal power of solar cells	<b>115 Watt peak</b>
SPR System Power Ratio	<b>5</b>
Autonomy	<b>3 nights (36h)</b>
Pole height	<b>5.0 / 6.0 / 8.0 m</b>
Light spot height	<b>4.8 / 5.8 / 7.8 m</b>

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Tamar, Hong Kong



Vienna, Austria



Ras al Kaimah, UAE

## LUMINAIRE

SOP Solar Operating Power	<b>2 x 20 Watt</b>
Max. luminous flux @ SOP	<b>2x 3,150 lm</b>
Luminaire efficacy	<b>160 lm/W</b>
Correlated Colour Temperature (CCT)	<b>5,000 K (cool white)</b> 3,000 K (warm white) - optionally 4,000 K (neutral white) - optionally
Colour rendering index (CRI)	<b>≥ 70</b>
Life time of LEDs (L70/B10)	<b>&gt; 90,000 hours</b>
Material (housing)	<b>Aluminium</b>
Finishing (housing)	<b>Powder-coated</b>
Weight	<b>5.5 kg</b>

## POLE, PIPE BEND

Wind class acc. EN 40	<b>45 m/s</b>
Pole height	<b>5.0 / 6.0 / 8.0 m</b>
Light spot height	<b>4.8 / 5.8 / 7.8 m</b>
Pole diameter	<b>160 mm (5.0 m pole)</b>
Pole weight	<b>70 kg (5.0 m pole)</b>
Boom angle	<b>15 °</b>
Pipe bend length	<b>800 mm</b>
Pipe bend weight	<b>26.0 kg</b>
Foundation	<b>Flange plate</b> Sleeve foundation - optionally
Material	<b>Steel</b>
Finishing	<b>Hot-dip galvanized Paint-coated RAL 9006 (white aluminium)</b> Powder-coating, other RAL colours - optionally
Corrosion class	<b>C4</b>

## 2X POWER TUBE P100-160

Technology	<b>Silicon solar cells</b>
Number of solar cells (array)	<b>27 pcs (3 strings x 9 pcs / string)</b>
Nominal power of solar cells	<b>115 Watt peak</b>
Dimensions (mm)	<b>L1,520 x Ø160</b>
Weight	<b>7.0 kg</b>

## POWER CONTROL

Programmable microcontroller	<b>✓</b>
Controller location	<b>Pole</b>
Dynamic light profile	<b>Customer-specific</b>
Motion detector	<b>Optionally</b>
Hybrid power supply (AC back-up)	<b>Optionally</b>

## BATTERY

Technology	<b>VRLA, cycle type</b>
Location	<b>earth pit</b>
Capacity	<b>120 Ah / 12 V</b>
Dimensions (mm)	<b>L407 x W177 x H225</b>
Weight	<b>35.0 kg</b>

## SYSTEM

SPR System Power Ratio	<b>5</b>
Autonomy	<b>3 nights (36h)</b>

## STANDARDS AND COMPLIANCES

ISO	<b>ISO 9001-2015</b>
Illumination	<b>According to EN 13201, IESNA RP-8-00</b>
Light pole	<b>EN 40</b>
Power tube impact protection rating	<b>IK06</b>
Photovoltaics	<b>EN 61215 (adapted)</b>
Temperature range	<b>-40 °C to +50 °C (battery in earth pit)</b>
CE	<b>✓</b>
RoHS	<b>✓</b>