

hei

solar light

EN



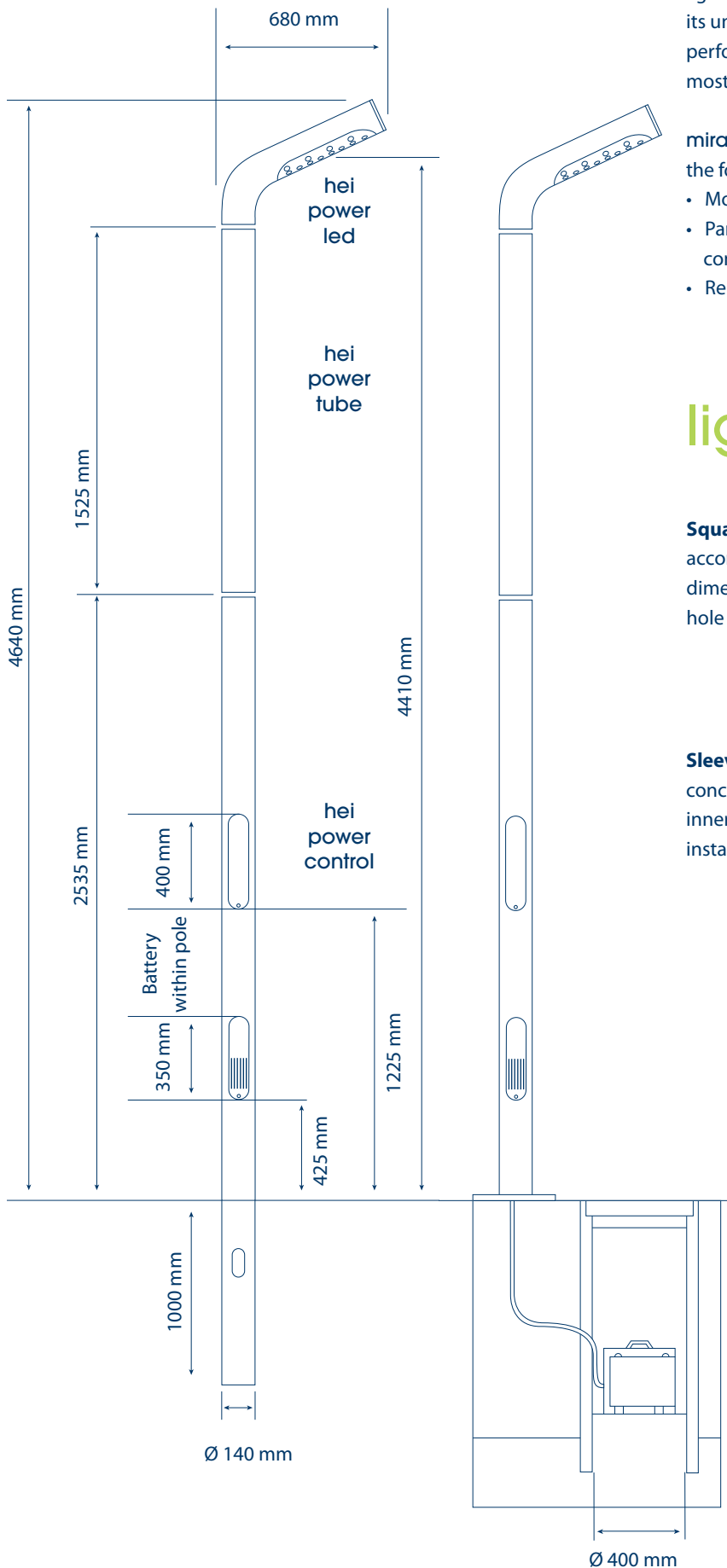
technical  
data

series 50  
**mira s**

100 -1200

100 -1800

# dimensions



# product specification

mira s 100 is a stand-alone solar light conceived for outdoor residential and municipal lighting. Equipped with advanced LED and photo-voltaic technology, the mira s 100 provides uniform light distribution ideal for bicycle paths and pavements. Due to its unique energy management system, mira s 100 ensures high performance and reliability in all weather conditions and in the most challenging solar radiance environments.

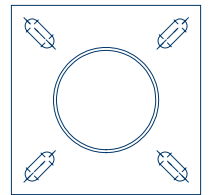
mira s 100 is available with 12 or 18 high-efficiency LEDs and the following additional options:

- Motion detector for customer-specific light distribution
- Part-solar, hybrid version for locations with poor lighting conditions
- Remote maintenance and remote control (from 2011)

## light pole versions

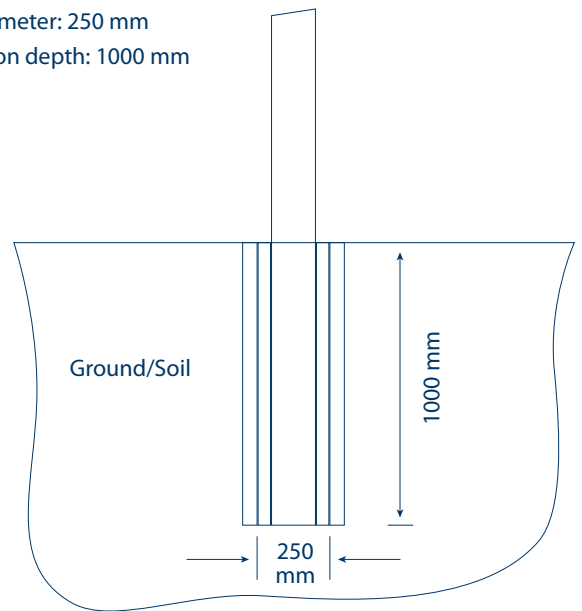
### Square ground plate

according to EN 40-5  
 dimensions: 330 x 330 x 25 mm  
 hole spacing: 200 to 250 mm



### Sleeve foundation

concrete pipe  
 inner diameter: 250 mm  
 installation depth: 1000 mm

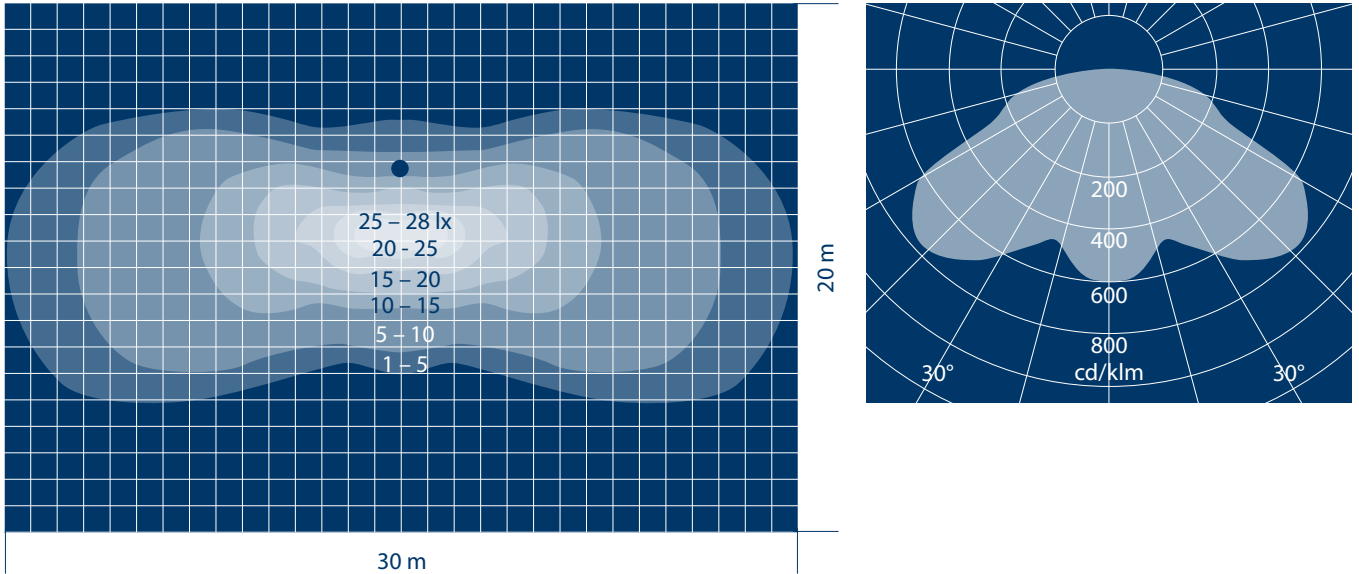


### Battery enclosure

In very hot or cold regions, we recommend to position the battery in an underground enclosure rather than in the light pole.

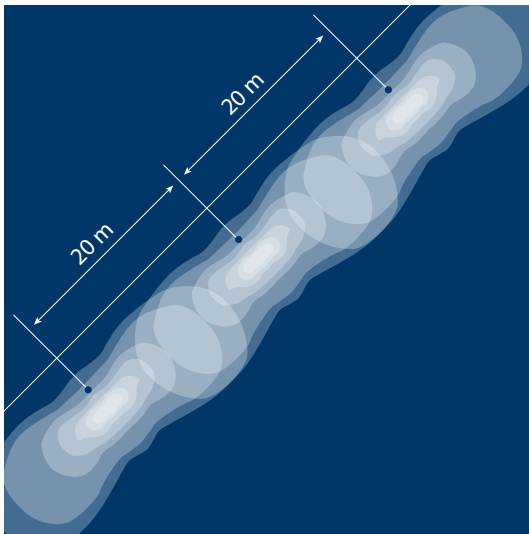
# light distribution

Light distribution: lengthwise aligned    Light spot height: 4.40 m    18 LEDs / 1,800 lm



# installation example

Distance between lights: 20 m    Average illuminance: 9.8 lx



# illuminance

at full operation    path-width: 5 m    18 LEDs / 1,800 lm

distance [m]	area [sqm]	$E_{av}$ [lx]	$E_{min}$ [lx]
10	40	20	12
15	60	13	7.2
20	80	9.8	3.3
25	100	8.2	1.6
30	120	6.7	0.9
40	160	5	0.3
50	200	4	0.1

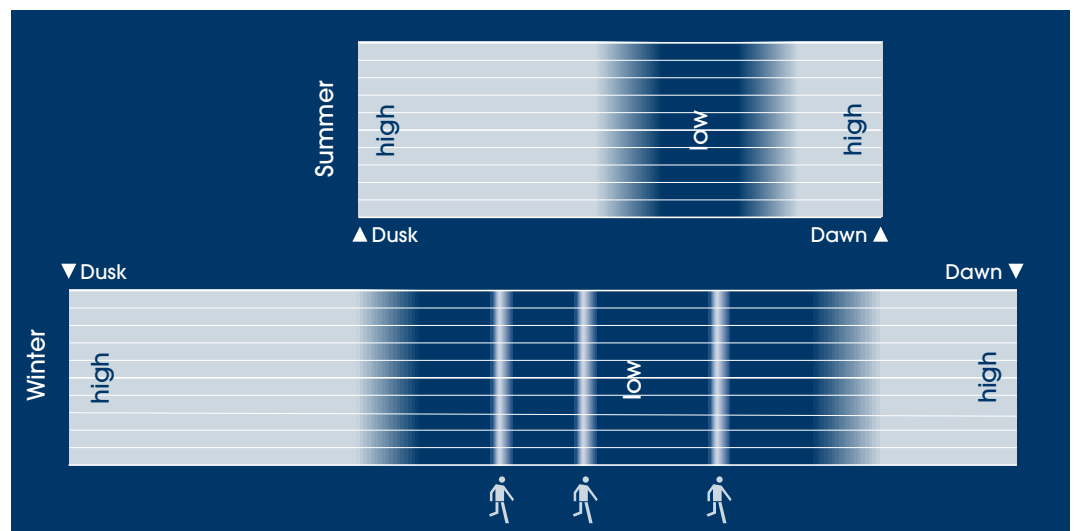
$E_{av}$  [lx]: average illuminance

$E_{min}$  [lx]: minimum illuminance

Illuminance in operation depending on local site conditions (average daylight available) and customer-specific lighting times.

# illumination management

Lighting times can be individually adjusted with program-selection-switch.



# technical data

Model / Type	mira s 100	
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System		
Installation height	4.65 m	
Light spot height	4.40 m	
Diameter of light pole	140 mm	
Light pole	steel, hot-dip galvanized, paint-coated, (stainless steel, aluminium optional)	
Light pole color	RAL 9006, white aluminium (standard)	
Light head color	RAL 9005, deep black (standard)	
Installation	sleeve foundation (ground plate optional)	
Weight	120 kg	

hei power led		
Type	mira S 100-1200	mira S 100-1800
Illuminant	12 high-efficiency LEDs	18 high-efficiency LEDs
max. power	12 Watt	18 Watt
max. luminous flux	1,200 Lumen	1,800 Lumen
typ. illuminance	up to 9 lx	up to 13 lx
Light distribution	lengthwise aligned	
Energy conversion efficiency	82 %	
LED-light temperature	cool-white, 5,300 Kelvin, CRI > 70 (standard) neutral-white, 4,100 Kelvin (optional) warm-white, 3,100 Kelvin (optional)	
typ. service life (part load)	> 75,000 hrs	
Illumination area	typ. 60 – 150 sqm	

hei power tube	
Height PV-module	1.5 m
Diameter PV-module	140 mm
PV-Technology	silicon-solar cells
Number of PV-cells	33 pcs
Nominal power output	100 Wp

hei power control	
Programmable microcontroller	✓
Dynamic light profile	customer-specific
Motion detector	optional
Capacity of battery	12 V/32 Ah (pole-mounted, standard) 12 V/30 Ah (underground enclosure, optional)*
Technology of battery	lead-acid

Standards / Compliances	
Illumination	according to EN 13201
Degree of protection PV-module	IK06
Certification light pole	EN 40-5, EN 40-3-1, ISO 1461
Certification electronics	IP65
EMV	EN 55015, EN 61547
PV-standard	EN 61215 (adapted)
Temperature range	- 15° C to + 50° C (pole-mounted) - 30° C to + 60° C (underground enclosure)*
CE-certification	✓

\* Recommended installation for harsh climates in order to increase battery lifespan.



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