



SOLAR LIGHT COLUMN

columba 6000 P180-270

PRELIMINARY DATA SHEET

High-end solar light column with unique luminaire shell-design for architectural lighting applications with highest design expectations. Full solar supply, no grid required.

Light source	8 high-efficiency LEDs
Max. LED power	99 Watt
SOP Solar Operating Power	35 Watt
Max. luminous flux @ SOP	5,700 lm
Luminaire efficacy	165 lm/W
Nominal power of solar cells	192 Watt peak
SPR System Power Ratio	5
Autonomy	3 nights (36h)
Pole height	6.0 / 8.0 m
Light spot height	5.7 / 7.7 m

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Columba 6000 P180-270 Preliminary Data Sheet
Data as of: 2019-01-25

LUMINAIRE

SOP Solar Operating Power	35 Watt
Max. luminous flux @ SOP	5,700 lm
Luminaire efficacy	165 lm/W
Correlated Colour Temperature (CCT)	5,000 K (cool white) 3,000 K (warm white) - optionally 4,000 K (neutral white) - optionally
Colour rendering index (CRI)	≥ 70
Life time of LEDs (L70/B10)	> 90,000 hours
Material (housing)	Aluminium
Finishing (housing)	Powder-coated
Weight	6.5 kg

COLUMN

Wind class acc. EN 40	45 m/s
Pole height	6.0 / 8.0 m
Light spot height	5.7 / 7.7 m
Pole diameter	270 mm (6.0 m pole)
Pole weight	175 kg (6.0 m pole)
Foundation	Flange plate
Material	Steel
Finishing	Hot-dip galvanized Paint-coated RAL 9005 (jet black) Powder-coating, other RAL colours - optionally
Corrosion class	C4

POWER TUBE P180-270

Technology	Silicon solar cells
Number of solar cells (array)	45 pcs (5 strings x 9 pcs / string)
Nominal power of solar cells	192 Watt peak
Dimensions (mm)	L1,520 x Ø270
Weight	20.5 kg

POWER CONTROL

Programmable microcontroller	✓
Controller location	Pole
Dynamic light profile	Customer-specific
Hybrid power supply (AC back-up)	Optionally

BATTERY

Technology	VRLA, cycle type	
Location	earth pit	inside pole
Capacity	105 Ah / 12 V	4 x 23 Ah / 12 V (31 h autonomy)
Dimensions (mm)	L328 x W172 x H222	4 pcs: L181 x W77 x H167
Weight	30.0 kg	24.0 kg

SYSTEM

SPR System Power Ratio	5
Autonomy	3 nights (36h)

STANDARDS AND COMPLIANCES

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