



SOLAR LIGHT COLUMN

columba 12000 twin P720-270

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	4x 8 high-efficiency LEDs
Max. LED power	4 x 99 Watt
SOP Solar Operating Power	4 x 35 Watt
Max. luminous flux @ SOP	4x 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	10.0 / 12.0 / 14.0 m
Light spot height	9.7 / 11.7 / 13.7 m

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LUMINAIRE

SOP Solar Operating Power	4 x 35 Watt
Max. luminous flux @ SOP	4x 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	10.0 / 12.0 / 14.0 m
Light spot height	9.7 / 11.7 / 13.7 m
Pole diameter	270 mm (10.0 m pole)
Pole weight	231 kg (10.0 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

4X 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
Capacity	420 Ah / 12 V
Dimensions (mm)	2 pcs: L522 x W240 x H219
Weight	120.0 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	✓