



# The foundations of change

**Philips CosmoPolis** - a Lamp and Gear system designed to fulfil all requirements from the demanding public lighting application ensuring you a future-proof installation.



The Philips CosmoPolis system consists of:

- Two new lamp families: Philips CosmoWhite and Philips CosmoGold
- Two new electronic gear platforms to complement the system

#### System features

- High system efficiencies: up to 117 lm/W for the lamp; up to 91% efficiency for the electronic gear
- Unique burner design and positioning in combination with best lamp fixation
- Compact: reduced size to 50% compared to SON/HPL systems
- Electronic gear designed for outdoor applications (Philips LumiStep stand-alone control option planned at a later stage)

#### System benefits

- High system efficiency gives energy saving and a low cost of ownership
- Best optical efficacy allowing greater spacing between luminaires and thus lower investment
- Compactness offers optimisation in design of optics and luminaires
- Optimal lamp service lifetime
- Robust outdoor dedicated electronic Xtreme gear for long and reliable operation
- A Green Flagship product to minimise environmental impact and CO<sub>2</sub> emission
- Attractive white light: Philips CosmoWhite
- Functional yellow light: Philips CosmoGold (release postponed)

#### Applications - Urban public lighting:

- City centres • Residential areas • Road

Lamp range	Light output (lm)	Lamp base	Lamp voltage (V)	Colour temperature (K) *	Colour rendering	Service lifetime (h)	Lumen maintenance at service lifetime	Order code EOC
Philips MASTER CosmoWhite 60W/728	6.850	PGZ 12	230	2600 - 2850	65	12.000	80%	208514 15
Philips MASTER CosmoWhite 140W/728	16.500	PGZ 12	230	2600 - 2850	65	12.000	80%	208538 15
Philips MASTER CosmoWhite 45W/628	4.300	PGZ 12	230	2600 - 2850	60	12.000 (design spec)	80% (design spec)	**
Philips MASTER CosmoWhite 90W/728	10.550	PGZ 12	230	2600 - 2850	65	12.000 (design spec)	80% (design spec)	**

All numbers are target specifications

\* Lamps are optimised for horizontal use, although they can be operated in all positions. Colour temperature and colour rendering are position dependent (corresponding data are for vertical/horizontal position)

\*\* Planned for quarter 1 2007

# PHILIPS

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Philips CosmoWhite  
HID-PrimaVision Xtreme gear

### Benefits of electronic gear compared with conventional electromagnetic gear

- High system efficiency to save energy
- Compact size and low weight provide design flexibility and easy installation
- Mains voltage fluctuations do not affect light output, so costs can be reduced by specifying lighter-duty cabling and/or fewer switching cabinets
- No power factor correction needed so no capacitor to fail
- Only one component to simplify servicing

### In addition the benefits of Philips CosmoPolis HID-PV Xtreme gear

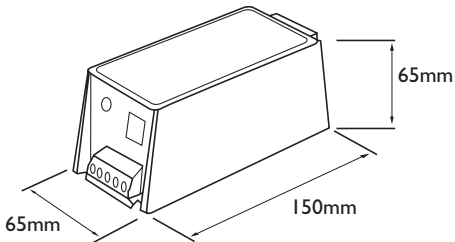
- Outdoor long-life heavy-duty specification, hence its name 'Xtreme' (60.000 hours)
- Peak voltage protection to safeguard lamp, and surge protected to safeguard gear
- Full lightning protection
- Fully potted box, protecting components against dust, moisture and vibrations

You deal only with one trusted supplier for the entire system.

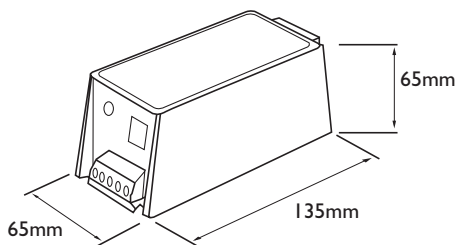
Commercial name	Nominal system power (W)	Ambient temperature range (°C)	Rated mains voltage (V)	Expected lifetime max 5% failure rate (Tcase nominal) (h)
Philips CosmoWhite HID-PV Xtreme gear 60 W	66	-30/+50	220-240	60.000
Philips CosmoWhite HID-PV Xtreme gear 140 W	154	-30/+50	220-240	60.000
Philips CosmoWhite HID-PV Xtreme gear 45 W	*	-30/+50	220-240	60.000
Philips CosmoWhite HID-PV Xtreme gear 90 W	98,5	-30/+50	220-240	60.000

### All numbers are target specifications

\* to be defined



Philips CosmoWhite HID-PV Xtreme 90/140W



Philips CosmoWhite HID-PV Xtreme 45/60W



Before - Old technology London Borough of Redbridge



After - New technology London Borough of Redbridge

