





# CorePro LED PLS 5W 830 2P G23

The Philips CorePro LED PLS integrates a LED light source into a traditional fluorescent form factor. This product is the ideal solution for uplamping in general lighting applications: it meets basic lighting requirements, offers significant energy savings and is environmentally friendly.

#### **Product data**

General Information  Cap base G23  Nominal lifetime 30,000 h  Switching Cycle 50,000  Lighting Technology LED  Flux measurement reference Sphere  CE mark Yes  EU ROHS compliant Yes  Light Technical  Colour Code 830 [CCT of 3000K]  Beam angle (nom.) 120 degree(s)  Luminous Flux 520 lm  Colour designation White (WH)  Correlated Colour Temperature 3000 K  Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RGO		
Nominal lifetime 30,000 h  Switching Cycle 50,000  Lighting Technology LED  Flux measurement reference Sphere  CE mark Yes  EU RoHS compliant Yes  Light Technical  Colour Code 830 [CCT of 3000K]  Beam angle (nom.) 120 degree(s)  Luminous Flux 520 lm  Colour designation White (WH)  Correlated Colour Temperature 3000 K  Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RGO	General Information	
Switching Cycle 50,000  Lighting Technology LED  Flux measurement reference Sphere  CE mark Yes  EU RoHS compliant Yes  Light Technical  Colour Code 830 [CCT of 3000K]  Beam angle (nom.) 120 degree(s)  Luminous Flux 520 Im  Colour designation White (WH)  Correlated Colour Temperature 3000 K  Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RGO	Cap base	G23
Lighting Technology  Flux measurement reference  CE mark  Yes  EU RoHS compliant  Yes  Light Technical  Colour Code  Baso [CCT of 3000K]  Beam angle (nom.)  120 degree(s)  Luminous Flux  520 lm  Colour designation  White (WH)  Correlated Colour Temperature  3000 K  Luminous efficacy (rated) (nom.)  104.00 lm/W  Colour consistency  <6  Colour rendering index (CRI)  82  LLMF at end of nominal lifetime (nom.)  Photobiological safety according to EN 62471  RGO	Nominal lifetime	30,000 h
Flux measurement reference  CE mark  Yes  EU RoHS compliant  Yes  Light Technical  Colour Code  830 [CCT of 3000K]  Beam angle (nom.)  120 degree(s)  Luminous Flux  520 lm  Colour designation  White (WH)  Correlated Colour Temperature  3000 K  Luminous efficacy (rated) (nom.)  104.00 lm/W  Colour consistency  <6  Colour rendering index (CRI)  82  LLMF at end of nominal lifetime (nom.)  Photobiological safety according to EN 62471  RGO	Switching Cycle	50,000
CE mark  EU RoHS compliant  Yes  Light Technical  Colour Code  Baam angle (nom.)  Luminous Flux  Colour designation  White (WH)  Correlated Colour Temperature  Juminous efficacy (rated) (nom.)  Colour consistency  Colour rendering index (CRI)  Baam angle (nom.)  Roman angle (nom.)  104.00 lm/W  Colour consistency  Colour rendering index (CRI)  Baam angle (nom.)  70 %  Photobiological safety according to EN 62471  RGO	Lighting Technology	LED
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Luminous Flux  Colour designation  White (WH)  Correlated Colour Temperature  3000 K  Luminous efficacy (rated) (nom.)  104.00 lm/W  Colour consistency  <6  Colour rendering index (CRI)  82  LLMF at end of nominal lifetime (nom.)  Photobiological safety according to EN 62471  RG0	Colour Code	830 [CCT of 3000K]
Colour designation White (WH)  Correlated Colour Temperature 3000 K  Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RG0	Beam angle (nom.)	120 degree(s)
Correlated Colour Temperature 3000 K  Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RG0	Luminous Flux	520 lm
Luminous efficacy (rated) (nom.) 104.00 lm/W  Colour consistency <6  Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RG0	Colour designation	White (WH)
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Colour rendering index (CRI) 82  LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RG0	Luminous efficacy (rated) (nom.)	104.00 lm/W
LLMF at end of nominal lifetime (nom.) 70 %  Photobiological safety according to EN 62471 RG0	Colour consistency	<6
Photobiological safety according to EN 62471 RG0	Colour rendering index (CRI)	82
	LLMF at end of nominal lifetime (nom.)	70 %
Operating and Electrical	Photobiological safety according to EN 62471	RG0
Operating and Electrical		
	Operating and Electrical	
Line Frequency 50 to 60 Hz	Line Frequency	50 to 60 Hz

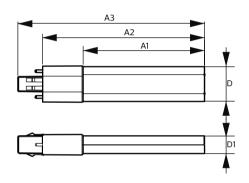
Input frequency	50 to 60 Hz
Power Consumption	5 W
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	220-240 V
LED alternative to fluorescent lamp power	11 W
Inrush current at mains	3
Max. lamp no. on MCB B type 10A — Mains	159
Max. lamp no. on MCB B type 10A $-$ EM ballast	220
without Comp. Cap.	
Max. lamp no. on MCB B type 10A — EM ballast	30
with Comp. Cap.	
Max. lamp no. on MCB B type 16A — Mains	306
Max. lamp no. on MCB B type 16A $-$ EM ballast	330
without Comp. Cap.	
Max. lamp no. on MCB B type $16A - EM$ ballast	49
with Comp. Cap.	
Ballast Compatibility	EM
Temperature	
Ambient temperature range	-20°C to 45°C

Datasheet, 2023, April 14 data subject to change

T-Case maximum (nom.)	83 ℃
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb material	Plastic
Product length	170 mm
Bulb shape	PL-S
Approval and Application	
Energy Efficiency Class	F
Energy-saving product	Yes
Approval marks	TUV CE marking RoHS compliance
	KEMA Keur certificate

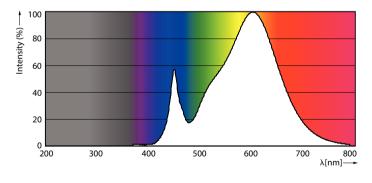
Energy consumption kWh/1,000 hours	5 kWh			
EPREL registration number	403566			
Product Data				
Order product name	CorePro LED PLS 5W 830 2P G23			
Full product name	CorePro LED PLS 5W 830 2P G23			
Full EOC	871869959666800			
Order code	59666800			
Material no. (12 NC)	929001926302			
SAP numerator – quantity per pack	1			
EAN/UPC — Product/Case	8718699596668			
Numerator – packs per outer box	20			
EAN/UPC - Case	8718699596675			

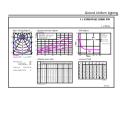
# Dimensional drawing



Product	D	D1	A1	A2	А3
CorePro LED PLS 5W 830 2P G23	31.1 mm	15.8 mm	108 mm	144 mm	166 mm

## Photometric data

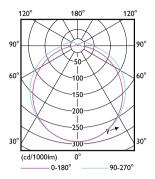




Spectral Power Distribution Colour - CorePro LED PLS 5W 830 2P G23

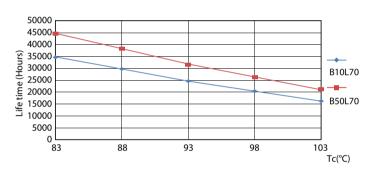
General uniform lighting - CorePro LED PLS 5W 830 2P G23

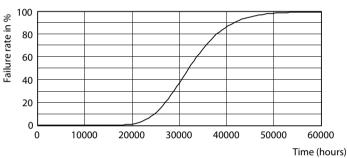
#### Photometric data



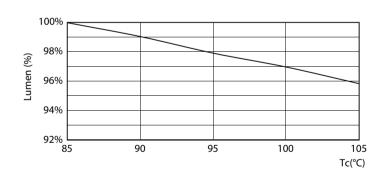
Light Distribution Diagram - CorePro LED PLS 5W 830 2P G23

## Lifetime

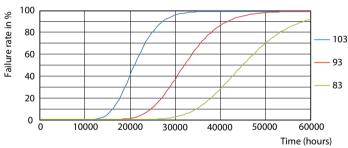




## Life Expectancy Diagram - CorePro LED PLS 5W 830 2P G23



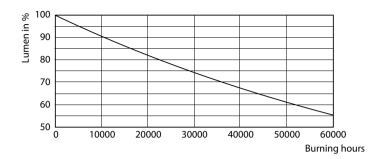
## Life Expectancy Diagram - CorePro LED PLS 5W 830 2P G23



Lumen Maintenance Diagram - CorePro LED PLS 5W 830 2P G23

Life Expectancy Diagram - CorePro LED PLS 5W 830 2P G23

## Lifetime



Lumen Maintenance Diagram - CorePro LED PLS 5W 830 2P G23

