

**84%**  
Energy cost  
saving



## Technical application guide

### PHILIPS CorePro LEDcandle and LEDlustre ND

Best of the world... a LEDcandle and  
LEDlustre with a warm white light  
that saves over 84% energy costs.

The CorePro LEDcandle and  
LEDlustre deliver comfort sparkling  
light which is ideal for installation in  
various kinds of fixtures where  
people can easily enjoy the art of  
light. The lamps can perfectly work  
with crystal chandeliers, wall sconces  
where lamps are exposed or modern  
fixtures with a glass shield.



reddot award 2016  
winner

# PHILIPS

## Design highlights

- Classical outlook meets the need of OEM lumi-makers
- Low power consumption
- Long-lifetime of 15,000 hours (F50, L70)
- Warm white CCT 2700 K available
- No UV and Cool beam (no IR)
- Environmental friendly, no Mercury or any other hazardous substances
- Low Carbon Footprint



## Application areas

Corepro LEDcandle and LEDlustre is ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall scones or modern luminaires, fit all existing fixtures with an E14 socket. Drawing upon inputs from chandelier makers and designed to enhance the aesthetic appeal of the chandelier or luminaire, not only when lit but also when not, these lamps come in a classical slender shape. They produce a beautiful warm light that delivers huge energy savings and minimizes maintenance cost.

## Application notes

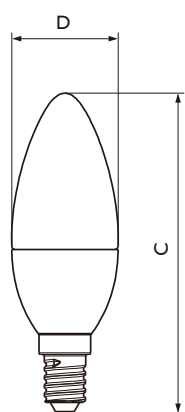
- Operating temperature range is between -20 °C and 45 °C ambient
- Designed for indoor application.
- Not intended for use with emergency light fixtures or exit lights
- For indoor applications in open luminaires (open/free air gap of min. 10 mm)

## Technical Specifications

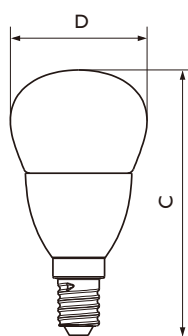
Product type	Voltage	Wattage	Replaced Wattage	Base	Lamp/shape finish	Color temp.	Light Output	Lifetime	CRI	Dimmable
	V	W				K	lm	hours		
Corepro candle ND 4-25W E14 827 B35 CL	220-240	4.0	25	E14	B35	2700	250	15,000	80	No
Corepro lustre ND 4-25W E14 827 P45 CL	220-240	4.0	25	E14	P45	2700	250	15,000	80	No
Corepro candle ND 5.5-40W E14 827 B35 CL	220-240	5.5	40	E14	B35	2700	470	15,000	80	No
Corepro lustre ND 5.5-40W E14 827 P45 CL	220-240	5.5	40	E14	P45	2700	470	15,000	80	No

## Dimensions

Type	C typical Overall Length (mm)	D typical Diameter (mm)
Corepro candle ND E14 827 B35	106	35
Corepro lustre ND E14 827 P45	88	45



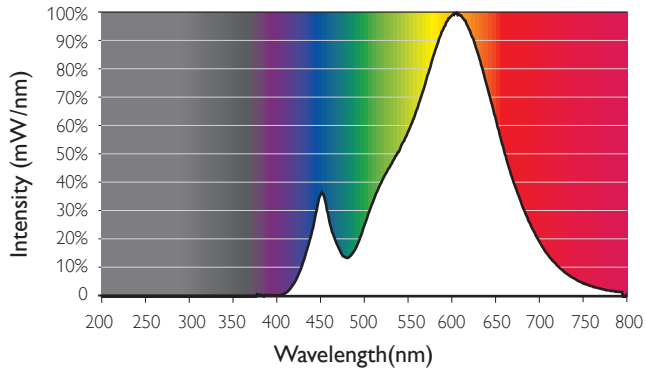
E14 B35



E14 P45

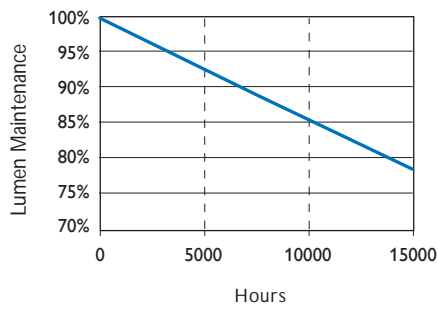
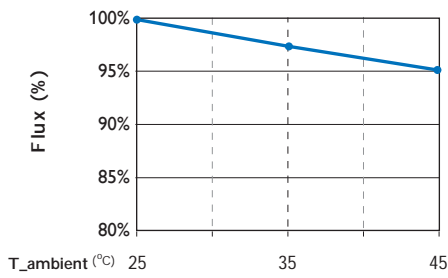
# Spectral Power Distribution

Spectrum of CorePro LEDcandle and LEDlustre

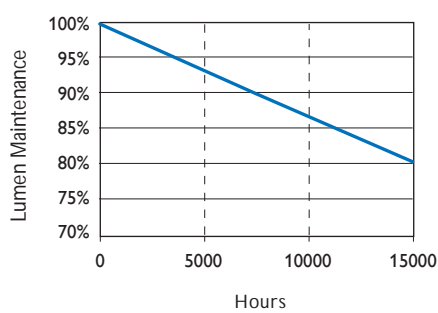
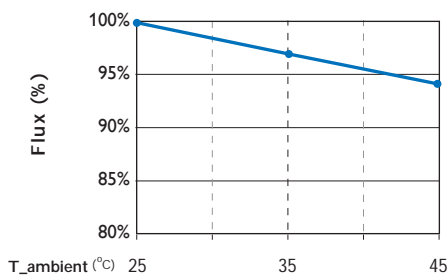


# Temperature

Corepro ND 4-25W



Corepro ND 5.5-40W



T<sub>c</sub>.

250lm T<sub>c</sub> Max: 85 °C

470lm T<sub>c</sub> Max: 95 °C

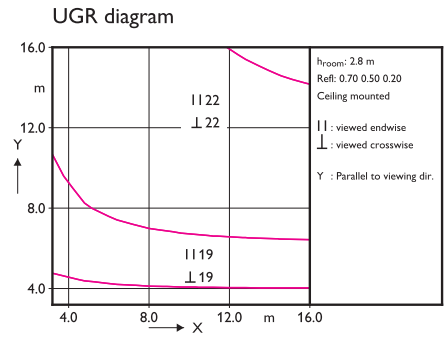
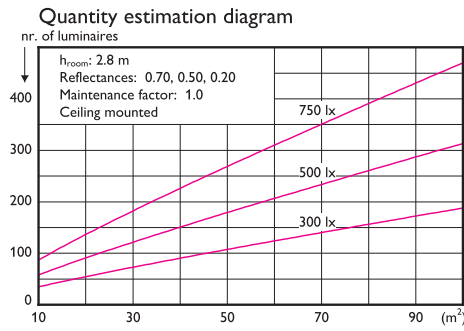
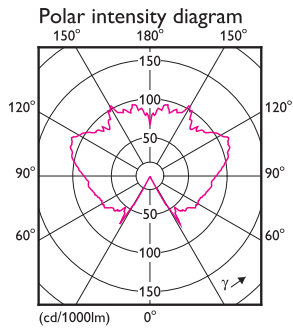
# Photometric Diagrams



## Corepro candle ND 4-25W E14 827 B35 CL

1 x 250 lm

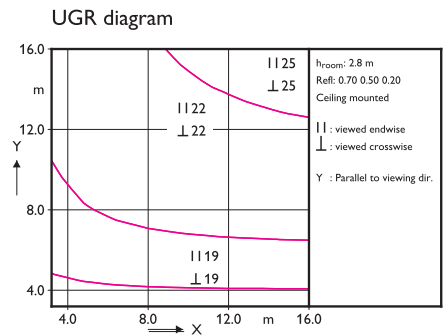
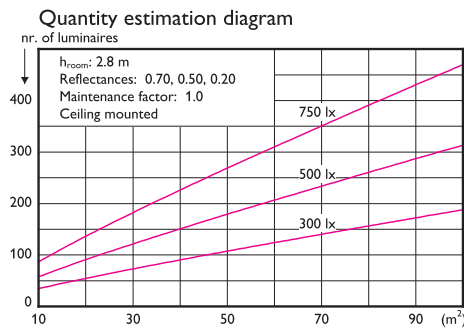
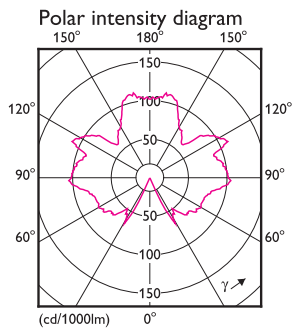
Light output ratio 1.00 CIE flux code 12 39 68 39 100  
 Service upward 0.61 UGRc<sub>en</sub> (4Hx8H, 0.25H) 21  
 Service downward 0.39



## Corepro lustre ND 4-25W E14 827 P45 CL

1 x 250 lm

Light output ratio 1.00 CIE flux code 13 38 66 43 100  
 Service upward 0.57 UGRc<sub>en</sub> (4Hx8H, 0.25H) 21  
 Service downward 0.43

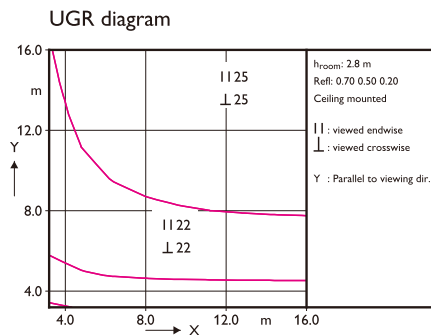
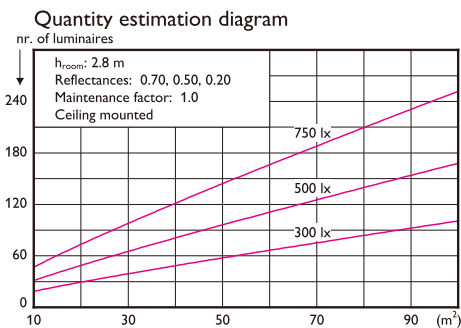
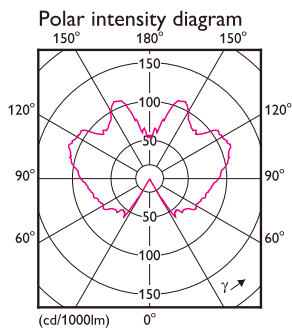




### Corepro candle ND 5.5-40W E14 827 B35 CL

1 x 470 lm

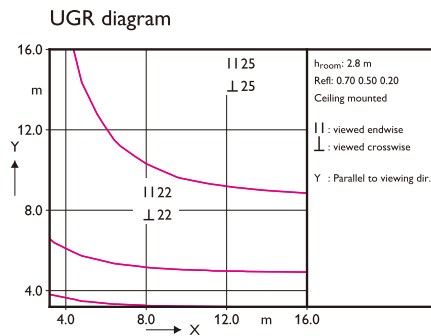
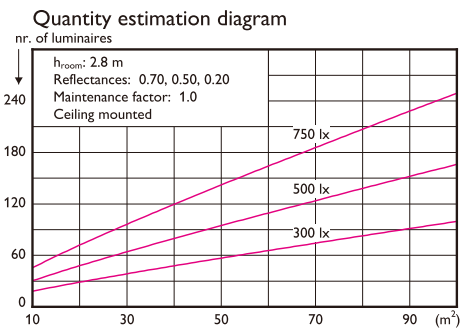
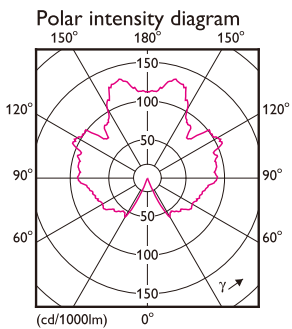
Light output ratio	1.00	CIE flux code	10 37 67 38 100
Service upward	0.62		
Service downward	0.38	UGRc <sub>en</sub> (4Hx8H, 0.25H)	23



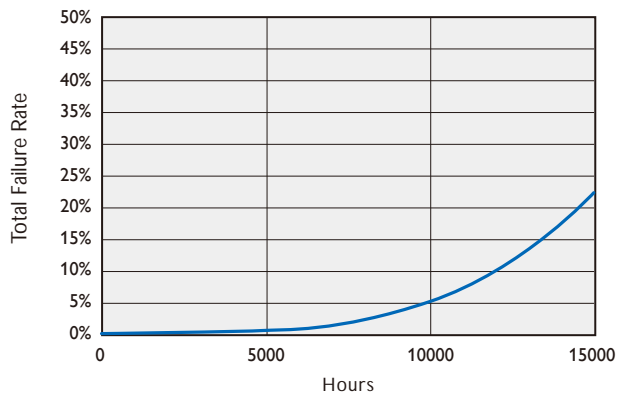
### Corepro lustre ND 5.5-40W E14 827 P45 CL

1 x 470 lm

Light output ratio	1.00	CIE flux code	14 40 68 39 100
Service upward	0.61		
Service downward	0.39	UGRc <sub>en</sub> (4Hx8H, 0.25H)	23



## Lifetime + Sustainability



Corepro LEDcandle and LEDlustre have a lifetime exceeding 15,000 hours defined as (F50, L70), where:

- F50, L70, meaning 50% in total of whole population of lamps either fail without light output or lumen maintenance lower than 70% of initial value
- Lifetime estimation based on the application environment condition: at room temperature (25°C), free air burning, base down burning position, and at rated voltage.



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