

pE-100^{wht}

for Transmitted
Light
Applications



100W Halogen Replacement

The pE-100^{wht} provides greater power and consistent white colour balance across all intensities. It offers all the benefits of LED illumination – instant on/off, control, stability, and repeatability – with a spectral performance matched to 100W halogen. Lifetime will exceed 50,000 hours of on time without the need to replace or align bulbs.

CoolLED 
Simply Better Control

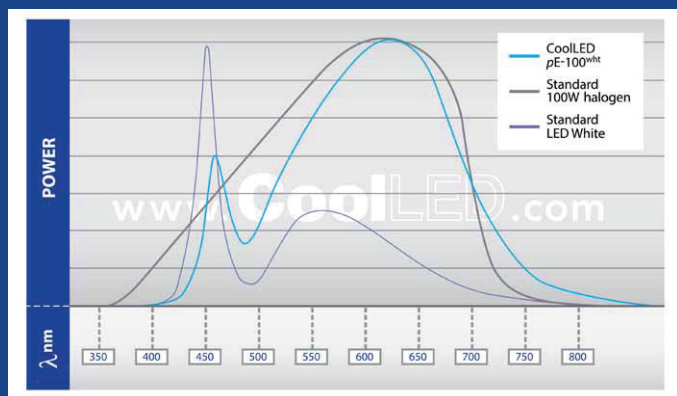


www.CoolLED.com

Specification

Performance

The system uses a new LED technology which has a spectrum closely matching halogen. Previous LED technology offered illumination which was weak at longer wavelengths. This made the red element of images appear faint and caused colours to lose their clarity.

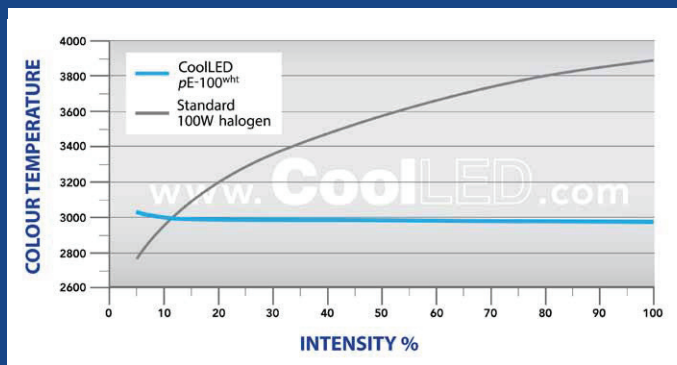


When adjusting the intensity of the pE-100^{wht}, the balance between the colours remains constant so there is no need to make adjustments to the colour balance that is necessary when using halogen. In addition, the pE-100^{wht} does not produce unwanted light in the UV which makes it a safer product for the user as risk of eye damage is significantly lower.

Our pE-100s for transmitted light applications are available without using phosphors where this is desirable – contact CoolLED for further details.

Due to a programme of continual development, performance values may change. Correct at time of print.

Colour Values



Correlated colour temperature (CCT) and colour rendering index (CRI) values are shown below. The pE-100^{wht} has been designed to match the standard settings of the 100W halogen lamp.

pE-100 ^{wht} Values	
CRI-Ra	>90
CCT	~ 3000K

To Order

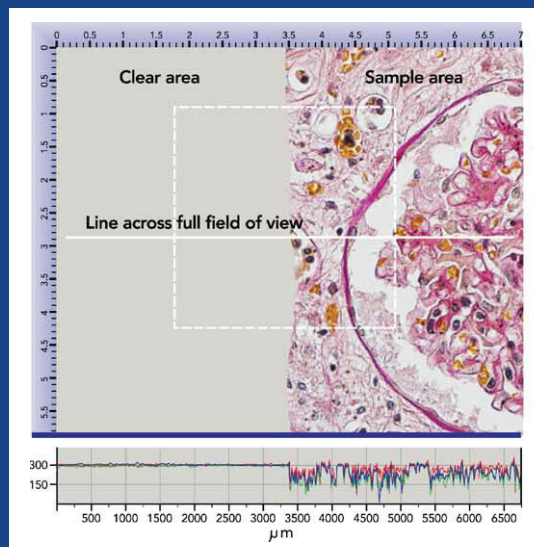
pE-100-WHT-YYY-ZZ: pE-100^{wht} direct fit Light Source, interchangeable microscope adaptor to customer specified microscope, remote manual control pod, and power supply. To specify microscope adaptor (YYY), see Adaptors (<http://www.cooled.com/product-detail/adaptors-2/>)
To specify power cable (ZZ): 10 = Australia, 20 = Europe, 30 = UK, 40 = USA

Warranty: System = 12 months, LEDs = 36 months

For more information on how CoolLED products can help you, contact us now:
t: +44 (0)1264 323040 (Worldwide) 1-800-877-0128 (USA/Canada)
w: www.CoolLED.com
e: info@CoolLED.com

Intensity Profile

Excellent homogeneity is achieved across the full Field of View.



Environment & Safety

LED products are more sustainable and energy efficient than conventional illuminators. CoolLED's products have the following benefits:

- Mercury-free
- Energy efficient: 80% less power
- Long lifetime (50,000 hours for pE-100wht)
- No bulb replacements
- Reduced risk of eye damage
- Quiet operation
- No special disposal regulations



Control & Interface

- Manual:** Manual control for instant on/off and intensity control in 1% steps from 0-100%
- Remote:** Via single TTL for on/off control using a BNC connection on the control pod. Triggering speed <20us

Power

- Power requirements:** 100-240V a.c. 50/60Hz, 1.5A
Power consumption: 1.0 (standby), 20W (full intensity)

Dimensions

- pE-100^{wht} Light Source:** 66mm(diameter) x 128mm (d) / Weight 0.42kg
pE-100^{wht} Control Pod: 102mm(w) x 110(d) x 50mm(h) / Weight 0.55kg
pE-100^{wht} power supply: 55mm(w) x 95mm(d) x 40mm(h) / Weight 0.19kg