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Philips Ceramic Xenon Lamps

Philips Ceramic Xenon lamps are ideal in critical endoscopy and surgical illumination applications requiring high intensity and accurate color rendition. Available in both 175W and 300W parabolic configurations.



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PHILIPS

Philips Ceramic Xenon lamps

Features	Benefits
Excellent color rendition	Accurate diagnosis during critical surgical procedures
Rugged ceramic to metal and sapphire construction	No special safety precautions required while handling lamp
No hazardous materials such as mercury	Environmentally friendly
Short arc gap	High level of usable light in fiber optic applications

Philips Ceramic Xenon lamps incorporate rugged ceramic to metal and sapphire to metal seals. The lamps are filled with non-toxic xenon gas and are fully RoHS compliant, containing no hazardous materials such as mercury or lead. The very short and optimized arc gap allows for the efficient capture of the light in demanding point source illumination applications. All Philips Ceramic Xenon lamps are designed and

manufactured to exacting standards at Philips' production facility in Baldwin Park, California using the latest manufacturing and process technology. The use of advanced tooling leads to excellent lamp to lamp consistency. Philips medical lamps are exact fit replacements in most leading fiber optic illuminators.

Type	Philips CEX-175BF	Philips CEX-300BF
Physical Characteristics		
Lamp Material	Ceramic, metal	Ceramic, metal
Lamp Weight (grams)	132	132
Photometric Characteristics		
Visible Output (Lumens)	2,200	5,000
Peak Intensity (Candelas)	350,000	500,000
Radiant Output (Watts)	25	50
UV (<390nm) Output (Watts)	1.2	2.6
Color Temperature (Kelvin)	5600	5600
Peak Instability	4%	4%
Beam Half Angle (degrees)	5	5
Focused Output @ 6mm Aperture (Lumens)	1400	3130
Focused Output @ 3mm Aperture (Lumens)	830	1410
Reflector Geometry	Parabolic	Parabolic
Life (Hours)	500	500
Drawings - Figure #	fig.1 / fig.3 / fig.4	fig.2 / fig.3 / fig.4
Dimensions		
Length (in/mm)	1.667 / 42.34	1.667 / 42.34
Diameter (in/mm)	1.293 / 32.96	1.293 / 32.96
Window Diameter (in/mm)	1.00 / 25.4	1.00 / 25.4
Electrical Characteristics		
Normal Lamp Power at 25°C, 100 hrs (Watts)	175	300
• Power Range	150-200	180-340
Nominal Lamp volts at 25°C, 100 hrs (Vrms)	12	14
• Voltage Range	11-15	13-16
Nominal Lamp Current (DC) at 25°C, 100 hrs (Arms)	14	21
• Current Range	12-16	10-22
Ignition Voltage (kV)	23	23
Max Lamp Temperature (°C)	150	150

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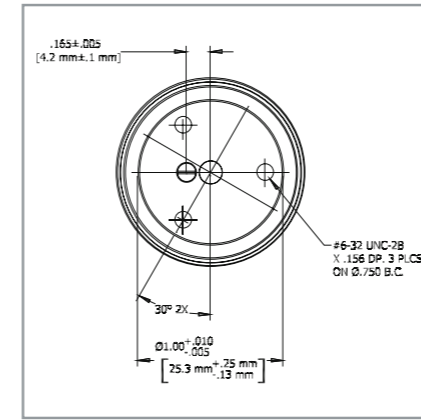


fig.1

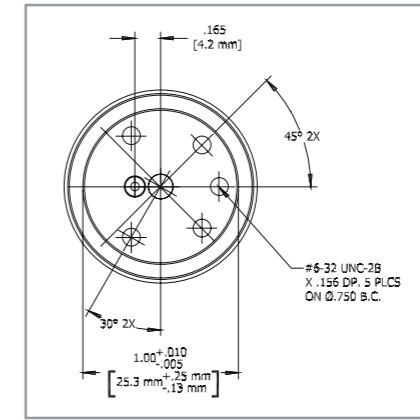


fig.2

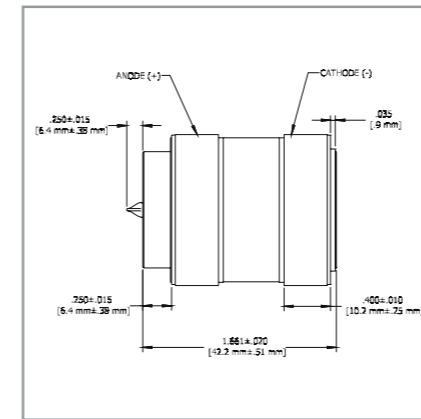


fig.3

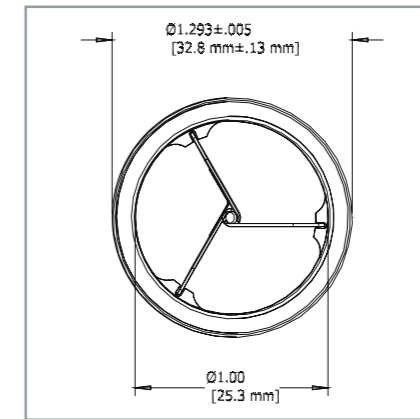


fig.4

Spectral Distribution

