ANSI C78.1408-1991
revision of ANSI C78.1408-1985

American National Standard

for electric lamps –

CBA projection lamp

Approved August 21, 1991

Secretariat: National Electrical Manufacturers Association

Lamp description

Designation code:	CBA
Type:	Proximity, internal reflector, tungsten-halogen lamp
Base:	G17t
Bulb:	T6
Application:	Slide projector

Ratings

Wattage	500 watts
Voltage	120 volts
Life	50 hours
Correlated color temperature	3200 K

Restrictions

Operating position	Base down to horizontal
Seal temperature	400°C max.
Bulb temperature	250°C min.

Shielding: To assure maximum safety during handling and use of the subject lamps, the following notices should be observed:

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– Tungsten-halogen lamps operate at high temperature and at internal gas pressures above atmospheric pressure. Consequently, a lamp could shatter. Certain lamps may also emit some amount of ultraviolet radiation. Therefore, a suitable protective shield, screening technique, or both, shall be used with the luminaire to protect people and surroundings from both hazards;

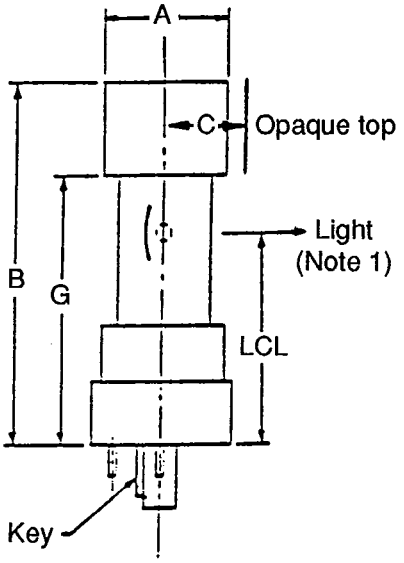
– The information contained in the lamp manufacturer's caution notice shall always be read and observed.

Physical characteristics

Base specifications: G17t, see *American National Standard for Electric lamp bases*, ANSI C81.61-1990.[1)]

Bulb designation: See *American National Standard Nomenclature for glass bulbs intended for use with electric lamps,* ANSI C79.1-1980 (R.1984).

Dimensions: See figure 1.



Reference	Standard dimensions (mm) Min	Nom	Max
A	–	–	25.25
B	–	–	78.66
C (see note 2)	–	–	20.00
LCL	–	44.25	–
G	54.10	–	–

NOTES

1 The intended light direction as shown above is in the plane defined by pin number 4 (not shown in this figure) and the axis of the lamp base.

2 Dimension C defines the maximum excursion of the opaque top or bulb in any direction from the base axis.

Figure 1 – Dimensions for CBA projection lamp

1) This standard is a consolidation of ANSI C81.10-1976, ANSI C81.20-1976, C81.30-1976, C81.40-1976, and C81.50-1976

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Test procedures

Life ..... Open rack, horizontal burning position with cooling to maintain temperature limits in accordance with *American National Standard for Electric lamps – Incandescent projection lamps – Method for life testing*, ANSI C78.1450-1983 (R.1989).

Illumination ..... See *American National Standard Illumination tests for photographic still-front-projection equipment*, ANSI PH3.705-1980 (R1985).[2)]

Seal temperature ..... Measurement procedure is defined in *Standard Method of Measuring the Pinch Temperature of Quartz-Tungsten-Halogen Lamps*, IEC Publication 682 (1980).

Operating temperature ..... Standard methods of measuring other lamp operating temperatures (bulb and base) are under consideration.

2) This standard has been administratively withdrawn.

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