

CID Compact Iodide Daylight Lamp

2.5kW Hot Restrike Metal Halide Discharge Lamp

Specification Ref. 99 - 0431

Identification

Applications

For use with colour film stock balanced for daylight of 5500K and for all colour or monochrome television productions. The CID lamp is designed for use in fresnel lens luminaires and for theatre lighting and allied applications where suitable lighting fittings can make good use of this high intensity compact light source.

Description

The 2.5kW CID lamp gives light of $5500 \pm 400\text{K}$ at an efficacy of 80 L/W. The CID lamp is a metal halide discharge arc lamp with a quartz envelope and is of extremely robust construction in single ended form of compact dimensions. The international standard G38 base ensures that the lamp can be readily fitted into many existing luminaires and simplifies the design of new equipment.

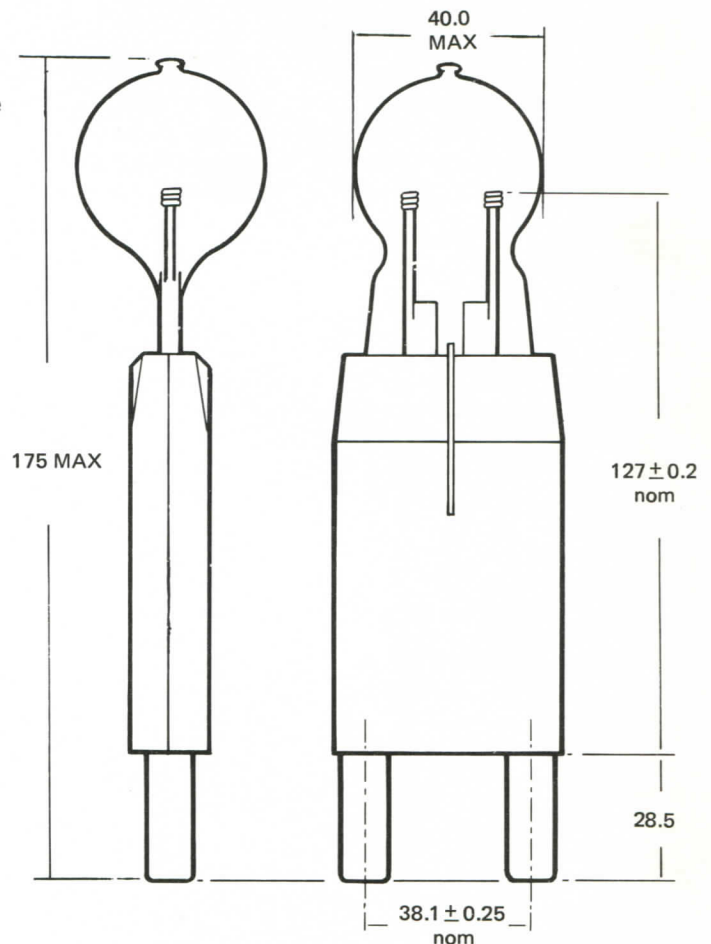
Performance

Electrical Characteristics

Supply Voltage	220/240 AC*
Base	G38 Bipost
Arc Voltage	100 nom.
Nominal Arc Current	30 amp
Run-up time	1 minute
Restrike time	Instantaneous
Ignitor	IREM AD 3050

Luminous Characteristics

Arc Length	18 nom.
Lumen Output	200,000
Lumen Maintenance	90%
Correlated Colour Temperature	$5500 \pm 400\text{K}$
General Colour Rendering	
Index Ra	85
Chromaticity co-ordinates	$x'0.333 \ y'0.341$
Operating Position	Any
Average Rated Life	350 hrs



*Details upon application for control gear for operation on supply voltages between 100V and 240V AC 50Hz or 60Hz.

Operation and Maintenance

Safety

Before Use

Always isolate the equipment from the electricity supply before inserting or replacing a lamp.

Check that the replacement lamp is the correct type for the application, wattage and cap for use in the circuit and with control gear.

Ensure that the lamp is correctly located in the lampholder and the quartz envelope is not scratched during insertion.

During Use

Where mercury discharge and metal halide lamps are used for prolonged periods in close proximity to eyes and skin there may be a slight possibility of a low level of UV radiation hazard. Suitable protection should be employed.

Certain metal halide lamps have operating restrictions, details of which are specified with the lamps.

High pressure mercury discharge lamps with quartz envelopes without glass outer bulbs emit short wave ultra violet radiation which is readily transmitted through quartz. This radiation is harmful to eyes and skin, operators must be shielded from direct or reflected short wave ultra violet radiation.

Disposal

These lamps should be broken in a container. Precautions must be taken against flying glass or other fragments. The operation should be carried out outdoors (or in a well ventilated area). With high pressure mercury lamps, it is not necessary to break up the inner arc tube. Where applicable, the debris of large quantities of lamps must be disposed of in accordance with the rules of the Local Authority.

Further Information

Thorn Lighting reserve the right to alter the specification without prior notice or public announcement.