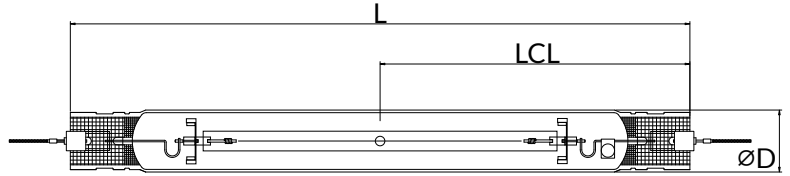




DIMENSIONS



| | | | |
|------------|-----------------------|---------------|-----------|
| ΦD | Bulb Diameter (max.) | 1.3in | 33mm |
| LCL | Light Center Length | 6.34 ± 0.2 in | 161 ± 5mm |
| L | Overall Length (max.) | 12.3 in | 330mm |

SPECIFICATIONS

| DIMENSIONS | | | |
|--------------------------|------------------------------------|----------|----------------------|
| 1.1 | Bulb Diameter (max.) (ΦD) | [mm(in)] | 33 (1.3) |
| 1.2 | Light Center Length (LCL) | [mm(in)] | 161 ± 5 (6.34 ± 0.2) |
| 1.3 | Overall Length (max.) (L) | [mm(in)] | 330 (12.3) |
| 1.4 | Base type | | K12 S30 |
| 1.5 | Base axiality | ° | 3 Max |
| STARTING CHARACTERISTICS | | | |
| 2.1 | Starting voltage limit requirement | [V] | 380 |
| 2.2 | Starting time | [S] | 5 Max |
| IN-RUSH CHARACTERISTICS | | | |
| 3.1 | Pulse voltage | [KV] | 3~5 |
| 3.2 | Pulse time | [us] | 4 us at 2700V Min |
| 3.3 | Pulse times | [times] | once per cycle |

400V / 1000W Double Ended High Pressure Sodium Lamp **CTHPS-1000W-DE**

ELECTRICAL CHARACTERISTICS

| | | | |
|-----|---------------------|-----|----------------|
| 4.1 | Voltage | [V] | 180~200~250 |
| 4.2 | Current (reference) | [A] | 5.6 |
| 4.3 | Wattage (reference) | [W] | 980 (1050 max) |

LIGHT CHARACTERISTICS

| | | | | | |
|-----|---------------------------|-------------|-------------|-----------|-----------|
| 5.1 | Luminous flux | [umols PAR] | Rated: 2000 | Avg: 1950 | Min: 1850 |
| 5.2 | Color temperature | [K] | 2100 | | |
| 5.3 | Color index | [Ra] | 25 | | |
| 5.4 | Lumen maintenance (2000h) | [%] | 75 | | |
| 5.5 | Average life | [h] | 6000 | | |

REFERENCE BALLAST CHARACTERISTICS

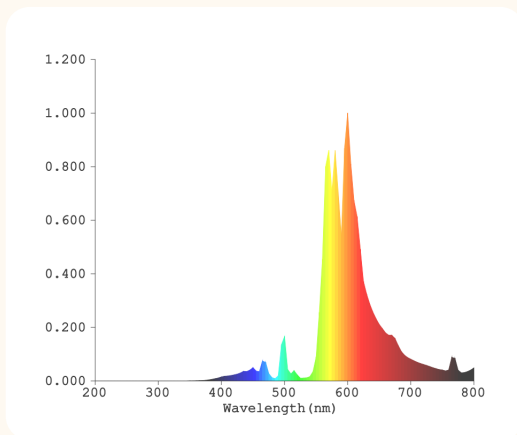
| | | | |
|-----|-------------------------|------|--------------|
| 6.1 | Rated frequency | [Hz] | 50/60 |
| 6.2 | Rated voltage | [V] | 400 |
| 6.3 | Reference current | [A] | 5.6 |
| 6.4 | Voltage \ current ratio | / | 55 |
| 6.5 | Power factor | / | 0.06 ± 0.005 |

OTHER

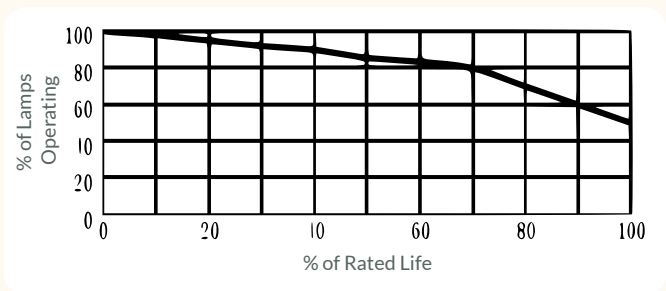
| | | | |
|-----|------------------------|-------|-------------------|
| 7.1 | Base temperature | [°C] | 250 Max. |
| 7.2 | Outer bulb temperature | [°C] | 700 Max. |
| 7.3 | Base torque force | [N.m] | |
| 7.4 | Burning position | / | Horizontal ± 15 ° |

Use only in fully enclosed fixtures, environment friendly

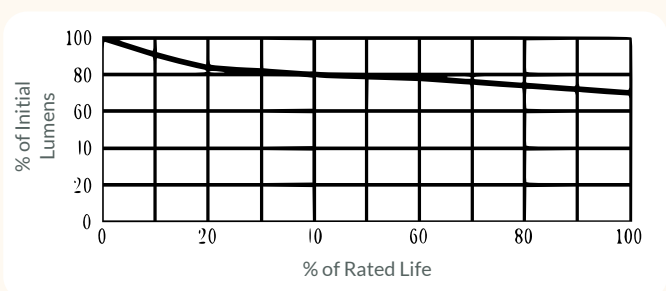
Spectral Power Distribution



Lamp Mortality



Lumen Maintenance



⚠WARNING

RISK OF ELECTRIC SHOCK:

- Turn power off before inspection, installation or removal.
- Protect lamp from direct contact with liquids to avoid breakage from thermal shock.

RISK OF FIRE:

- Keep combustible materials away from lamp during operation.

UNEXPECTED LAMP RUPTURE MAY CAUSE INJURY, FIRE OR PROPERTY DAMAGE

- Do not exceed rated ballast voltage.
- Do not use lamp if outer glass is scratched or broken.
- Do not use beyond rated life.
- Do not turn on lamp until fully installed.
- Use only with fixture and ballast rated for this product.
- Electrically insulate any metal to glass support in fixture.

⚠CAUTION

RISK OF BURN:

- Allow lamp to cool before handling.
- Contains sodium – Avoid skin contact with broken pieces.

LAMP MAY SHATTER AND CAUSE INJURY IF BROKEN

- Do not use excessive force when installing lamp.
- Dispose of lamp in an enclosed container.
- Wear safety glasses and gloves when installing lamp.

Hg-LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws