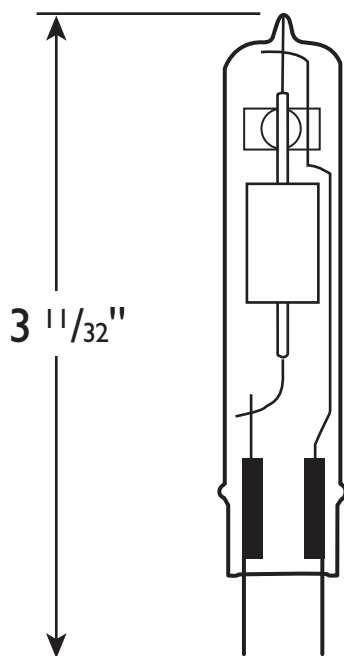


MasterColor® Ceramic Metal Halide 22 Watt 3000K Tubular Single-Ended T4 Lamps

with FadeBlock™ UV Filtering



Ordering Information

| | |
|------------------|----------------------------------|
| Ordering Code | CDM20/TC/830 |
| ANSI Designation | C156/C175/E |
| Product Number | 404939 |
| Description | MasterColor Ceramic Metal Halide |
| Package Quantity | 12 |

Physical Characteristics

| | |
|------------------------------------|-------------------------|
| Bulb Size | T-4 |
| Bulb Finish | Clear |
| Base | G-8.5 Bi-Pin |
| Max. Overall Length (MOL) | 3.35" (85mm) |
| Light Center Length (LCL) | 2.0" (52mm) |
| Arc Length | 0.12" (3mm) |
| Arc Tube Material | Polycrystalline Alumina |
| Max. Permissible Bulb Temp. | 320°C (608°F) |
| Max. Permissible Pinch Temp. | 300°C (572°F) |
| Max. Arc Tube to Base Eccentricity | 3° |

Operating Characteristics (Photometric)

| | |
|---|----------------|
| Rated Initial Lumens ¹ | 1650 |
| Mean Lumens, Approx. ² | 1175 |
| Rated Average Life, Hours ³ | 12,000 |
| Correlated Color Temp. (CCT) ² | 3000K |
| CIE Chromaticity Approx. ² | x-.430, y-.385 |
| Color Rendering Index (CRI) | 85 |
| Efficacy (lpw) | 75 |

Operating Position

Universal—Enclosed Luminaires Only

Note: Operate lamp only on approved thermally protected electronic ballast.

PHILIPS

MasterColor® Ceramic Metal Halide 22 Watt 3000K Tubular Single-Ended T4 Lamps with FadeBlock™ UV Filtering

Electrical Data (Subject to change without notice)

| | |
|---|----------------------|
| Lamp Watts (Nominal) | 22 |
| Lamp Operating Voltage (rms) (Nominal) ² | 100 |
| Initial Lamp Voltage Range (rms) ³ | 95–108 |
| Lamp Operating Current (Amps) (rms) (Nominal) | 0.22 |
| Lamp Current Crest Factor (Maximum) | 1.8 |
| Warm-up Time to 80% of Output | 3 Minutes |
| Restrike Time for Hot Lamp | 4–8 Minutes |
| Ballast Type | C156/C175/E |
| Ballast Open Circuit Voltage (Minimum) | 250 |
| Pulse Peak Volts | 3000 Min., 4000 Max. |
| Pulse Width @ 90% Peak | 2 Micro Second Min. |
| Pulse Repetition Rate (Minimum) ⁴ | 1 per Half Cycle |
| Minimum Operating Temperature | -30°C |

1) Measured at 100 hours of life in vertical position.
2) Measured at rated lamp watts on a linear reactor. LPW does not include ballast losses.
3) Measured with the lamp operating at rated watts.
4) Option-Pulse Width @ 90% Peak, 1 micro second minimum with 2 pulses per half cycle.

INSTALLATION INFORMATION

MasterColor® Metal Halide T4 lamps must be used in combination with appropriate fully electronic ballast.

Warnings, Cautions and Operating Instructions

R“**WARNING:** These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.” This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21CFR 1040.30 Canada:SOR/DORS/80-381)

If the outer bulb is broken or punctured, turn off at once and replace the lamp to avoid possible injury from hazardous short wave ultraviolet radiation. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the envelope is struck.

WARNING: The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

Certain lamps that will retain all the glass particles should inner arc-tube rupture occur are commercially available from Philips Lighting Company.

RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE.
Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.

This lamp contains an arc tube with a filling gas containing less than 10 nCi of Kr-85 and is distributed by Philips Lighting Company, a division of Philips Electronics North America Corporation, Somerset, New Jersey, 08875.

CAUTION: TO REDUCE THE RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE RESULTING FROM AN ARC-TUBE RUPTURE THE FOLLOWING LAMP OPERATING INSTRUCTIONS MUST BE FOLLOWED.

Lamp Operating Instructions:

- 1) **RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE.**
Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.
- 2) Use only in fully enclosed fixtures capable of withstanding particles of glass having temperatures up to 1000°C. Lens/diffuser material must be heat resistant. Consult fixture manufacturer regarding the suitability of the fixture for this lamp.
- 3) Do not operate a fixture with a missing or broken lens/diffuser.
- 4) Operate lamp only within specified limits of operating position.
- 5) Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
- 6) Use only auxiliary equipment meeting Philips and/or ANSI standards.
Use within voltage limits recommended by ballast manufacturer.
 - A. Operate lamp only within specified limits of operation.
 - B. For total supply load refer to ballast manufacturer's electrical data.
 - C. Operate CDM-T6 (G12 base) lamps only on thermally protected ballasts.
 - D. Operate CDM-TC lamps (G8.5 base), CDM-T6 Elite lamps, and CDM-T6 39W/842 lamps only on thermally protected electronic ballasts.
- 7) Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage.
- 8) If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.
- 9) Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
- 10) Time should be allowed for lamps to stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Lamp color is also subject to change under conditions of excess vibration or shock, and color appearance may vary between individual lamps.
 - 11) Lamps may require 4–8 minutes to re-light if there is a power interruption.
 - 12) Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.



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