

Philips MasterColor® Ceramic Metal Halide 3000K Tubular Single-Ended T6 Lamps

Ideal for retail display lighting, general and indirect lighting, wall washing and fiberoptic systems



3000K

# A compact solution for retail displays

## The Philips MasterColor® 3000K Tubular Single-Ended

**T6 lamp** is a compact, energy efficient, ceramic metal halide lamp that provides crisp, sparkling light.

#### **Excellent color**

- 81-85 CRI (color rendering index)
- Color stability over life within ± 200K
- Lamp to lamp color consistency over life

#### Total cost of ownership benefits

- High lamp efficacy (up to 94 LPW)
- Energy-efficient alternative to incandescent/halogen
- Improved lumen maintenance over standard metal halide

#### **Application versatility**

- Universal burning position
- · Compact lamp dimensions for high beam intensities

#### **FadeBlock**<sup>™</sup>

• Lamps feature integrated UV blocking medium for reduced fading of fabrics and paintings



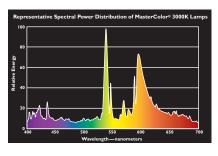
## Philips MasterColor<sup>®</sup> Ceramic Metal Halide 3000K Tubular Single-Ended T6 Lamps

#### **Ordering Data**

Product Number	Ordering Code	Pkg. Qty.	Nom. Watt.	ANSI Ballast Code	Approx. Initial Lumens <sup>1</sup>	Approx. Mean Lumens²	CRI
22328-9	CDM35/T6/830	12	39	M130/E	3300	2600	81
22337-0	CDM70/T6/830	12	70	M139/E	6600	4950	81
23272-8	CDM150/T6/830	12	150	M142, M102/E	14,000	9800	85

#### **Electrical and Technical Data**

Lamp Operating Volt. (rms)(Nom.) <sup>3</sup> —88 (39W/70W) ———————96 (150W)
Initial Lamp Volt. Range (rms)⁴ —85-105 (39W)150W)́
80-100 (70VV)
Lamp Operating
Current (Amps) Nominal (rms)0.53 (39W)
0.98 (70W)
I.8 (150W)
Lamp Current Crest Factor (Maximum)———————————————————————————————————
Warm-up to 80% Full Brightness — 2 minutes
Restrike Time for Hot Lamps — 4–8 minutes
Ballast Open Circuit Voltage ————————————————————————————————————
Pulse Peak Volts3000-4000
Pulse Width @ 90% Peak — 2 Micro Sec. Minimum
Pulse Repetition Rate (Minimum) <sup>5</sup> —2 per Half Cycle
Minimum Operating Temp



Phy	vsical	Characteristics
	Julai	Character istics

Bulb Size — T-6	6
Bulb Finish ————————————————————————————————————	r
BaseG-12 Bi-Pir	n
Max. Overall Length (MOL)	)
	)
Light Center Length (LCL) 2 1/22	"
Arc Length0.2" (5mm)(39W)	
0.275" (7mm)(70W)	)
0.354" (9mm) (150W)	)
Max. Bulb Temp 500°C (932°F) (39W/70W)	
650°C (I202°F) (I50W)	)
Max. Base Temp. — 280°C (536°F) (39W/70W	)
250°C (482°F) (150W)	)
Arc Tube Material ——Poly Crystalline Alumina	a
Max Bulb to Base Eccentricity3	0
Max. Arc Tube to Base Eccentricity3	o

### **Operating Characteristics**

Rated Average Life, Hours.6-	I 2,000
Correlated Color Temp. (CCT)	<sup>2</sup> 3000K
CIE Chromaticity Approx. <sup>2</sup>	—x428, y397 (39W) —x428 y394 (70W)
	—x435 y400 (150VV)
Efficacy (lpw)	87 (39W)
	94 (70W)
	93 (150W)

# Operating Position

Universal-Enclosed Luminaires Only

- I) Measured at 100 hrs. life. Approximate lumen values listed are for vertical operation of the lamp.
- 2) Approximate lumen output at 40% of lamp rated average life.
- 3) Measured at rated lamp watts on a linear reactor. LPW does not include ballast losses.
- 4) Measured with the lamp operating at rated watts.
- 5) Option-Pulse Width @ 90% Peak, I micro second minimum with 2 pulses per half cycle.
- 6) Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

#### CDM/T6

#### WARNINGS, CAUTIONS AND OPERATING INSTRUCTIONS for MasterColor® Ceramic Metal Halide Lamps: Single-Ended CDM-T G12, CDM-TC G8.5 (Universal); Double-Ended CDM-TD RX7 (Horizontal ± 45°, Enclosed Fixtures Only)

**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:21 CFR 1040.30 Canada:SORDORS/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

wARNING: Ine arc-tube or metai haude 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 REPOUCE THE RISK OF PERSONAL INJURY.

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:

- 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.
- crease 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.
- Do not operate a fixture with a missing or broken lens/diffuser.
- 4. Operate lamp only within specified limits of operating position
- 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 manufacturers
- electrical data. C. Operate CDM-T (G12 base) lamps only on thermally protected ballasts.
- D. Operate CDM-TC lamps (G8.5 base)
- only on thermally protected <u>electronic</u> ballasts. E. Operate CDM-T (G12 base) 39W/842 lamps only on thermally protected <u>electronic</u> ballasts.

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 Jamp base socket and wiring against moisture corrosive :
- Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
  Time should be allowed for lamps to stabilize in color when
- 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.
- Lamps may require 4 to 8 minutes to re-light if there is a power interruption.
  Take care in handling and disposing of lamps. If an arc tube is
- 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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