Philips MasterColor® Elite Ceramic Metal Halide 3000K Tubular Single-Ended T4 Lamps

Ideal for retail display lighting, and accent lighting

CDM Elite/TC

3000K



A compact solution for retail

The Philips MasterColor® Elite 3000K Tubular Single-Ended T4 lamp is the next generation of MasterColor®.

Excellent color

- 90 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 104 LPW)
- Up to 14% better initial efficacy than existing MasterColor® T4 lamps*
- Up to 44% better design lumens than existing MasterColor® T4 lamps**
- Up to 80% lumen maintenance at 12,000 hours

Application versatility

- Vertical position ±60° (39W); Universal operating position (70W)
- Dimensions, base and light center length are same as MasterColor® T4 lamps
- Features FadeBlock[™]—an integrated UV blocking medium for reduced fading of fabrics and paintings

(*,** See back page for footnotes)



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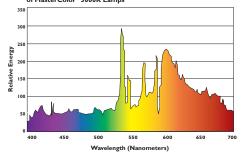
Ordering Data

Product Number	Ordering Code	Pkg. Qty.	Nom. Watt.	ANSI Ballast Code	Approx. Initial Lumens	Approx. Mean Lumens ²	CRI
40484-8	CDM Elite35/TC/930	12	39	C130/E	3500	3150	90
14837-9	CDM Elite70/TC/930	12	70	C139/E	7300	6500	90

Electrical and Technical Data

Lamp Operating Voltage (rms)(Nominal) ³ —85 (39W
86 (70W
Initial Lamp Voltage Range (rms) ⁴ ————80-10
Lamp Operating
Current (Amps) Nominal (rms) ———0.53 (39W
0.98 (70W
Lamp Current Crest Factor (Maximum)————I.
Warm-up to 80% Full Brightness ————3 minute
Restrike Time for Hot Lamps——— 4-8 minute
Ballast Open Circuit Voltage —— 209 RMS Min. (39W
Pulse Peak Volts ——————————————3000-400
Pulse Width @ 90% Peak ———2 Micro Sec. Minimur
Pulse Repetition Rate (Minimum) ⁵ —I per Half Cycl
Minimum Operating Temp30°C (-22°F

Representative Spectral Power Distribution of MasterColor® 3000K Lamps



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 —	0.17 (4.3mm)(39W)			
	—0.23" (5.75mm)(70W)			
Arc Tube Material ————	-Polycrystalline Alumina			
Max. Bulb Temp. —	—500°C (932°F)(39W)			
	—550°C (1022°F)(70W)			
Max. Pinch Temp. —	300°C (572°F)			
Max.Arc Tube to Base Eccentricity———3°				

Operating Characteristics

Rated Average Life, Hours.6——	12,000
Correlated Color Temp. (CCT) ²	3000K
CIE Chromaticity Approx.2	-x434, y396 (39W)
	-x438, y395 (70W)
Efficacy (lpw)	90 (39W)
	104 (70\\\)

Operating Position

Universal (70W); Vertical position ± 60° (39W) Enclosed luminaires only

Note: Use on thermally protected electronic ballast only.

Above specifications subject to change without notice.

- 1) 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.

Footnotes from front page:

- * Based on a MasterColor Elite 3000K Tubular Single-Ended T4 70 W lamp with 7,300 initial lumens vs. a CDMT4 70W lamp with 6,400 initial lumens.
- ** Based on a MasterColor Elite 3000K Tubular Single-Ended T4 70 W lamp with 6,500 design lumens vs. a CDMT4 70W lamp with 4,500 design lumens.

WARNINGS, CAUTIONS AND OPERATING

CDM Elite/TC

INSTRUCTIONS for MasterColor® Ceramic Metal Halide Lamps: Single-Ended CDM-T G12 and CDM-TCG8.5 (Universal); except CDM Elite TC/35/930 and CDM Elite T6/35/930 (Vertical position ± 60°); 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: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:**I. 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.
- . 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 manufacturers
 - 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), 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 to 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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