Mini MasterColor®

We're thinking small, so you can think BIG.

Photography by Polo Ralph Lauren

Ideal for accent and display lighting, in specialty retail, hospitality and architectural outdoor applications

Mini MasterColor®

–Lasts up to 3 times longer than standard halogen PAR38 lamps

–Uses 1/3 the energy consumption of standard halogen PAR38 75W lamps

–Energy efficient system operation reduces operating costs

–Excellent color quality of 83 CRI, 3000K

Miniaturization

–Lamp is up to 40% smaller than industry standard

–Ballast is 60% smaller than typical low wattage electronic footprint

–Smaller fixtures, less clutter in the ceiling—more focus on the merchandise

System Design "Made For Each Other"

–Lamp, electronic ballast and twist & lock lamp base are developed as a system

–Twist & lock lamp for easy installation and re-lamping

–Positioning accuracy within the reflector for optimal reflector performance

ADVANCE™

PHILIPS

Philips Lighting Company
200 Franklin Square Drive
P.O. Box 6800
Somerset, NJ 08875-6800
1-800-555-0050
www.philips.com
A Division of Philips Electronics North America Corporation

Philips Lighting
281 Hillmount Road
Markham, Ontario
Canada L6C 2S3
1-800-555-0050
www.philips.com
A Division of Philips Electronics Ltd.

Advance Transformer Co.
10275 West Higgins Road
Rosemont, IL 60018-5603
1-847-390-5000
www.advancetransformer.com
A Division of Philips Electronics
North America Corporation

9/04 P-5722

Mini MasterColor® Ceramic Metal Halide CDM-Tm Lamps

Lamp Electrical, Technical and Ordering Data (Subject to change without notice)

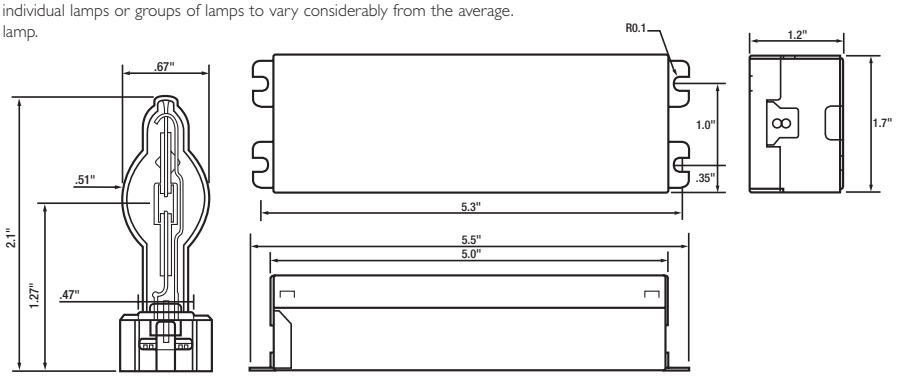
Ballast Electrical Data (Subject to change without notice)

Product Number	Ordering Code	Nom. Watts	Base	MOL	Rated Average Life (Hrs.)[2]	Initial Lumens[3]	Mean Lumens[4]	CRI	CCT (K)	Input Voltage	System Power	Input Current	Power Factor min.
14040 0	CDM-Tm 20W/830[1]	22	PGJ5	1.27"	9000	1500	1050	83	3000	120V	26W	0.23A	0.9

1) Operate only on Advance e-Vision® RMH-20-E-LF electronic ballast. **Order ballast from Advance Transformer:** Model RMH20ELF. Maximum ballast to lamp distance: 6 feet. Ballast warranty is 3 years at maximum rated case temperature of 70°C/158°F.
2) 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.
3) Approximate lumen values listed are for vertical operation of the lamp.
4) Approximate lumen output at 40% of lamp rated average life.

For operating instructions, technical and ordering information about the electronic ballast, please visit www.advancetransformer.com or call 1-800-372-3331

For operating instructions, technical and ordering information about the PGJ5 Lampholder, please visit www.bender-wirth.com



WARNINGS, CAUTIONS AND OPERATING INSTRUCTIONS for Mini MasterColor® CDM-Tm Lamps

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 is 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 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 thefixture 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 manufacturers electrical data.
   C. Operate CDM-Tm (PGJ5 base) 20W lamps only on Advance e-Vision® RMH-20-E-LF 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.