

Philips MasterColor®
CDM Elite MW Lamps

Ideal for architectural facade lighting, illumination of pedestrian areas, indoor retail outlets, warehouses, manufacturing facilities

MASTERCOLOR CDM



The next generation of white light

Philips MasterColor® CDM Elite MW. The medium wattage CDM lighting system that gives superior, long-lasting white light for both indoor and outdoor use.

Light quality

- Excellent color rendering of CRI 90+
- Crisp, white light in 3000K and 4200K
- Stable color performance over entire life
- New socket design enhances higher optical efficiency

Philips “Green Flagship Product”

- Low mercury, no lead
- Up to 120 lm/w
- 92% ballast efficacy



PHILIPS

sense and simplicity

Philips MasterColor® CDM Elite MW

The Philips MasterColor® CDM Elite MW system offers an unrivalled level of light quality and performance. The lamp's sparkling white light creates a natural ambience and really brings out the best in all different types of color. In addition, the high efficiency of the lamp and ballast together means reduced energy use and a lower cost of ownership compared to a 400W Metal Halide HID system.

Positioning

The new MasterColor Elite MW is positioned as a range extension of the existing white light solutions, CosmoPolis and MasterColor Elite. It has the lifetime, efficiency and reliability of the CosmoPolis and the color quality over life of the MasterColor Elite. It is therefore a unique system, because it combines all these characteristics in one lighting solution.

Benefits

- Significant upgrade opportunity over traditional HID systems
- Viable alternative to fluorescent options
- Excellent color quality and consistent light output from beginning to end.
- Being 50% smaller than traditional metal halide lamps gives freedom in optic and luminaire design.
- Greater harmony in lighting design as CDM lamps can now be used in many new applications.
- Sparkling properties of white light create a more natural and inviting ambience.
- Powered by Advance e-Vision® electronic ballast.

Ordering, Electrical and Technical Data

Product Number	Ordering Code	Watts	Approx. Initial Lumens ¹	Approx. Mean Lumens ²	Efficacy (lm/w)	Color Temp.	CRI	Burnt Position	Rated Avg. Life (Hrs.) ³	Lumen Maint. 20khr (%)
22062-4	CDM Elite MW 210/T9/930/U/E	210W	24,150	21,700	115	3000K	90+	Universal	20,000	80
21831-3	CDM Elite MW 315/T9/930/U/E	315W	37,800	34,000	120	3000K	90+	Universal	20,000	80
22063-2	CDM Elite MW 210/T9/942/U/E	210W	23,100	20,790	110	4200K	90+	Universal	20,000	80
22064-0	CDM Elite MW 315/T9/942/U/E	315W	36,225	32,900	115	4200K	90+	Universal	20,000	80

Product Number	Ordering Code—Ballast	Input Voltage Range	Input Current Max. Operating	Power Factor	Peak Ignition Voltage	Normal Ballast size Housing (mm)	Case Material	Ballast Weight	Ballast to lamp distance (max) ⁴
IZTMH210315RLF	Elite MW 210W	200–277V	1.2 @ 208V, 0.9 @ 277V	>0.90	3.5 kV	207x124x57	Metal case with flying leads	4.3 lb	30 (1nF max load)
IZTMH210315RLF	Elite MW 315W	200–277V	1.8 @ 208V, 1.3 @ 277V	>0.90	3.5 kV	207x124x57	Metal case with flying leads	4.3 lb	30 (1nF max load)

1) Measured at 100 hours of life in a horizontal operating position.

2) Approximate mean lumen output at 40% of lamp rated average life. Measured in vertical and horizontal positions.

3) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

4) 30ft w/ typical 18 gauge 1kV wire recommended.

The 930 versions will be available Q3/Q4 2008 and the 942 versions will be available Q1/Q2 2009.

Above specifications subject to change without notice.

WARNINGS, CAUTIONS, AND OPERATING INSTRUCTIONS

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.¹

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.

If a lamp is burned in a horizontal position, a rotation of the lamp over more than 90° around the lamp axis in the sockets can increase the risk that the arc tube will rupture. This holds during operation as well as after a cooling period after switching off the lamp. If one wishes to rotate the lamp over more than 90° around the lamp axis, one should do so in steps of less than 90° and let the lamp burn for at least 2 hours between each step.

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 20 nCi of Kr-85 and is distributed by Philips Lighting Company, a division of Philips Electronics North American Corporation.

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 an enclosed fixture capable of withstanding particles of glass having temperatures up to 1000° C.

3. Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.

4. 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. All Pulse Start lamps require a socket rated to withstand a 4,000 volt pulse

5. Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage.

6. If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.

7. Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.

8. 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.

9. Lamps may require 10 minutes to re-light if there is a power interruption.

10. Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.

11. Use this lamp only in fixtures that contain a Pulse Start metal halide ballast and are specifically designed for use with Pulse Start metal halide lamps.



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www.philips.com

Philips Lighting Company
200 Franklin Square Drive
P.O. Box 6800
Somerset, NJ 08875-6800
1-800-555-0050

A Division of Philips Electronics
North America Corporation

Philips Lighting
281 Hillmount Road
Markham, Ontario
Canada L6C 2S3
1-800-555-0050

A Division of Philips Electronics Ltd.

Advance
10275 West Higgins Road
Rosemont, IL 60018-5603
1-800-322-2086

A Division of Philips Electronics
North America Corporation

www.advancetransformer.com