

MasterColor® CDM  
Elite MW System

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

MasterColor® CDM



## The next generation of white light

**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 provides higher optical efficiency

### **Philips “Green Flagship Product”**

- Low mercury, no lead
- Up to 120 lm/w
- Efficient electronic ballast that uses less energy than magnetic options
- 93% ballast efficacy

**PHILIPS**

sense and simplicity

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

Product Number	Lamp Ordering Code	Nom. Watts	ANSI Code	Approx. Initial Lumens <sup>1</sup>	Approx. Mean Lumens <sup>2</sup>	Efficacy (lm/w)	Color Temp. (Kelvin)	CRI	Burn Position	Rated Avg. Life (Hrs.) <sup>3</sup>	Lumen Maint. 20khr (%)
22062-4	CDM Elite MW 210/T9/930/U/E	210	C183/E	24,200	22,100	115	3000	90+	Universal	24,000	80
21831-3	CDM Elite MW 315/T9/930/U/E	315	C182/E	37,800	34,700	120	3000	90+	Universal	30,000	80
22063-2	CDM Elite MW 210/T9/942/U/E	210	C183/E	23,100	20,800	110	4200	90+	Universal	20,000	80
22064-0	CDM Elite MW 315/T9/942/U/E	315	C182/E	36,200	32,600	115	4200	90+	Universal	24,000	80
23806-3	CDM Elite MW 210/T9/930/U/O	210	C183/O	23,100	20,700	110	3000	90+	Universal	20,000	80
23807-1	CDM Elite MW 315/T9/930/U/O	315	C182/O	36,200	32,500	115	3000	90+	Universal	20,000	80
23808-9	CDM Elite MW 210/T9/942/U/O	210	C183/O	22,100	19,900	105	4200	90+	Universal	20,000	80
23809-7	CDM Elite MW 315/T9/942/U/O	315	C182/O	34,700	31,200	110	4200	90+	Universal	20,000	80

All lamps are dimmable to 50% power (0-10V).

Product Number	Ballast Ordering Code	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) <sup>4</sup>
IZTMH210315RLF	Elite MW 210W	200–277V	1.2 @ 208V, 0.9 @ 277V	>0.90	3.5 kV	208 x 124 x 56	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	208 x 124 x 56	Metal case with flying leads	4.3 lb	30 (1nF max load)

1) Measured at 100 hours of life in a vertical operating position. Measured at rated lamp watts on electronic ballast. Lumens per watt does not include ballast losses.

2) Approximate lumen output at 40% of lamp rated average life.

3) Rated average life is obtained at 50% survival rate. All MasterColor® CDM Elite MW ceramic metal halide lamps are designed for 30,000 hours.

Based on data available at this time, the current rated average life is as published. Contact your sales representative for new updates.

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

**WARNINGS, CAUTIONS, AND OPERATING INSTRUCTIONS FOR MASTERCOLOR® CDM ELITE MEDIUM WATT CERAMIC METAL HALIDE TUBULAR SINGLE-ENDED LAMPS**

**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.

**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 30 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:**

- 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.
- If the lamp is marked on the base with /E, use only in enclosed fixture capable of withstanding particles of glass having temperatures up to 1000°C. If the lamp is marked on the base with /O, lamp should retain all the glass particles should inner arc tube rupture occur.
- Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
- Use only auxiliary equipment meeting Philips and/or ANSI standards. Use within voltage limits recommended by ballast manufacturer:

- Operate lamp only within specified limits of operation.
- For total supply load refer to ballast manufacturers electrical data.
- All Pulse Start lamps require a socket rated to withstand a 4,000 volt pulse
- Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage.
- If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.
- Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
- 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 10 minutes to re-light if there is a power interruption.
- Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.
- 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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