



The next generation of white light

MasterColor CDM-T Elite Med Wattage

The Philips MasterColor 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 colors. 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.

Benefits

- Excellent color rendering of 90+ CRI.
- Philips "Green Flagship Product" - Low mercury, no lead.
- New socket design provides higher optical efficiency.

Features

- 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, MasterColor CDM Elite MW gives freedom in optic and luminaire design.
- Sparkling properties of white light create a more natural and inviting ambience.
- 210 & 315 Watt, 3000 & 4200 color versions. Each powered by a Philips Advance e-Vision electronic ballast.

Application

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

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Warnings and Safety

- 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)

Approval and Application	
Energy Efficiency Label (EEL)	A+
Operating and Electrical	
Voltage (Max)	115 V
Voltage (Nom)	100 V
Re-ignition Time (Min) (Max)	10 min
General Information	
Life To 50% Failures (Nom)	30000 h
Operating Position	UNIVERSAL
Light Technical	
Correlated Colour Temperature (Max)	- K
Correlated Colour Temperature (Min)	- K
Lumen Maintenance 2000 h (Nom)	98 %
Mechanical and Housing	
Bulb Finish	Clear

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	231 kWh	24.5 mg	40.4 pg/lm.h
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	347 kWh	25 mg	25 pg/lm.h
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	231 kWh	24.5 mg	53 pg/lm.h

Operating and Electrical

Order Code	Full Product Name	Voltage (Min)	Power (Rated) (Nom)
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	90 V	210.0 W
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	85 V	315.9 W

Order Code	Full Product Name	Voltage (Min)	Power (Rated) (Nom)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	90 V	210.0 W

General Information

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	PGZ18	16000 h	12500 h
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	PGZ18	16000 h	12500 h

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	PGZX18	12000 h	10000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	600 °C
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	700 °C

Order Code	Full Product Name	Bulb Temperature (Max)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	550 °C

Light Technical (1/3)

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Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
13950800	MASTERC colour CDM-TMW Elite 210W/930 1CT	0.438	0.399	930	Warm White (WW)
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	0.376	0.379	942	Cool White (CW)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	0.438	0.399	930	Warm White (WW)

Light Technical (2/3)

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour		Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 10% Life	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 20000 h	Lumen Maintenance 40% Life	Lumen Maintenance 5000 h (Nom)
			Colour Rendering Index (Min)	Colour Rendering Index (Nom)						
13950800	MASTERC colour CDM-TMW Elite 210W/930 1CT	-	87	90	91 %	96 %	90 %	81 %	90 %	93 %
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	4140 K	90	93	86 %	96 %	82 %	81 %	82 %	94 %
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	-	87	90	84 %	98 %	78 %	-	88 %	91 %

Light Technical (3/3)

Order Code	Full Product Name	Luminous Efficacy		Design Mean Lumens	Luminous Flux	
		(rated) (Min)	(rated) (Nom)		(Rated) (Min)	(Rated) (Nom)
13950800	MASTERC colour CDM-TMW Elite 210W/930 1CT	105 lm/W	114 lm/W	21600 lm	22050 lm	24000 lm
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	105 lm/W	112 lm/W	31150 lm	33100 lm	35500 lm

Order Code	Full Product Name	Luminous Efficacy		Design Mean Lumens	Luminous Flux	
		(rated) (Min)	(rated) (Nom)		(Rated) (Min)	(Rated) (Nom)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	101 lm/W	111 lm/W	21600 lm	21200 lm	23300 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
13950800	MASTERC colour CDM-TMW Elite 210W/930 1CT	TMW28
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	TMW28

Order Code	Full Product Name	Bulb Shape
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	T12

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