



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)

Controls and Dimming	
Dimmable	No
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
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
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	316 kWh	28 mg	27.1 pg/lm.h
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	210 kWh	24 mg	40.4 pg/lm.h
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	316 kWh	25 mg	25 pg/lm.h

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	210 kWh	23.7 mg	53 pg/lm.h
13956000	CDM ELITE TMW 315/930/U/O EU	316 kWh	28 mg	44.4 pg/lm.h
13960700	CDM Elite TMW 315/942/U/O EU	316 kWh	25 mg	39.0 pg/lm.h

Operating and Electrical

Order Code	Full Product Name	Voltage (Min)	Power (Rated) (Nom)
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	90 V	315.9 W
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	90 V	210.0 W

Order Code	Full Product Name	Voltage (Min)	Power (Rated) (Nom)
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	85 V	315.9 W
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	90 V	210.0 W
13956000	CDM ELITE TMW 315/930/U/O EU	90 V	315.9 W
13960700	CDM Elite TMW 315/942/U/O EU	90 V	315.9 W

General Information

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	PGZ18	16000 h	12500 h
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	PGZ18	16000 h	12500 h

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	PGZ18	16000 h	12500 h
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	PGZ18	12000 h	10000 h

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Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
13956000	CDM ELITE TMW 315/930/U/O EU	PGZX18.	12000 h	10000 h

Order Code	Full Product Name	Cap-Base	Life To 10% Failures (Nom)	Life To 5% Failures (Nom)
13960700	CDM Elite TMW 315/942/U/O EU	PGZX18.	12000 h	10000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	700 °C
13950800	MASTERCcolour 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
13956000	CDM ELITE TMW 315/930/U/O EU	550 °C
13960700	CDM Elite TMW 315/942/U/O EU	550 °C

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity	Chromaticity	Colour		Colour		
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation	Correlated Colour Temperature (Nom)	Rendering Index (Min)	Rendering Index (Nom)
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	0.434	0.398	930	Warm white (WW)	3000 K	87	90
13950800	MASTERCcolour CDM-TMW Elite 210W/930 1CT	0.434	0.398	930	Warm white (WW)	3000 K	87	90
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	0.371	0.366	942	Cool White (CW)	4200 K	90	93
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	0.434	0.398	930	Warm white (WW)	3000 K	87	90
13956000	CDM ELITE TMW 315/930/U/O EU	0.434	0.398	930	Warm white (WW)	3000 K	87	90
13960700	CDM Elite TMW 315/942/U/O EU	0.371	0.366	942	Cool White (CW)	4200 K	87	93

Light Technical (2/3)

Order Code	Full Product Name	Lumen	Lumen	Lumen	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous
		Maintenance 10000 h (Nom)	Maintenance - 10% Life	Maintenance - 12000 h (Nom)	Maintenance - 2000 h (Nom)	Maintenance - 20000 h	Maintenance - 40% Life	Maintenance - 5000 h (Nom)	Efficacy (rated) (Min)	Efficacy (rated) (Nom)
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	90 %	96 %	89 %	99 %	80 %	89 %	96 %	112 lm/W	120 lm/W
13950800	MASTERCcolour CDM-TMW Elite 210W/930 1CT	91 %	96 %	90 %	98 %	81 %	90 %	93 %	105 lm/W	114 lm/W
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	86 %	96 %	82 %	98 %	81 %	82 %	94 %	105 lm/W	112 lm/W
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	84 %	98 %	78 %	98 %	-	88 %	91 %	101 lm/W	111 lm/W
13956000	CDM ELITE TMW 315/930/U/O EU	87 %	98 %	83 %	98 %	80 %	87 %	89 %	105 lm/W	115 lm/W
13960700	CDM Elite TMW 315/942/U/O EU	93 %	97 %	91 %	97 %	80 %	95 %	96 %	99 lm/W	109 lm/W

Light Technical (3/3)

MasterColor CDM-T Elite Med Wattage

Order Code	Full Product Name	Design		Luminous	Luminous
		Mean	Luminous	Flux	Flux
		Lumens	Flux (Nom)	(Rated)	(Rated)
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	33700 lm	38000 lm	35280 lm	38000 lm
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	21600 lm	24000 lm	22050 lm	24000 lm
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	31150 lm	35500 lm	33100 lm	35500 lm

Order Code	Full Product Name	Design		Luminous	Luminous
		Mean	Luminous	Flux	Flux
		Lumens	Flux (Nom)	(Rated)	(Rated)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	21600 lm	23300 lm	21200 lm	23300 lm
13956000	CDM ELITE TMW 315/930/U/O EU	31500 lm	36200 lm	33100 lm	36200 lm
13960700	CDM Elite TMW 315/942/U/O EU	30780 lm	34300 lm	31200 lm	34300 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	TMW28
13950800	MASTERColour 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
13956000	CDM ELITE TMW 315/930/U/O EU	T12
13960700	CDM Elite TMW 315/942/U/O EU	T12

