



# 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

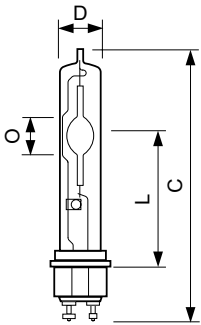
- Ideal for architectural facade lighting, illumination of pedestrian areas, indoor retail outlets, warehouses, manufacturing facilities.

# MasterColor CDM-T Elite Med Wattage

## Versions



## Dimensional drawing



Product	D	D	C		
CDM-TP MW 210W/930 PGZX18.1CT/12	1.5 in	38 mm	193 mm		
CDM ELITE TMW 315/930/U/O EU	1.5 in	38 mm	193 mm		
CDM-T Elite 315W/930 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188 mm	186 mm
CDM-T Elite 315W/942 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188 mm	186 mm
CDM Elite TMW 315/942/U/O EU	1.5 in	38 mm	193 mm		
CDM-T Elite 210W/930 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188 mm	186 mm

### Approval and Application

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

### 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	347 kWh	28 mg	27.1 pg/lm.h
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
13956000	CDM ELITE TMW 315/930/U/O EU	347 kWh	28 mg	44.4 pg/lm.h
13960700	CDM Elite TMW 315/942/U/O EU	347 kWh	25 mg	39.0 pg/lm.h

## Operating and Electrical

## MasterColor CDM-T Elite Med Wattage

Order Code	Full Product Name	Voltage (Min)	Power (Rated)	
			(Nom)	(Nom)
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	90 V	315.0 W	
13950800	MASTERCcolour CDM-TMW Elite 210W/930 1CT	90 V	210.0 W	

Order Code	Full Product Name	Voltage (Min)	Power (Rated)	
			(Nom)	(Nom)
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	85 V	315.0 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	315.0 W	
13960700	CDM Elite TMW 315/942/U/O EU	90 V	315.0 W	

### General Information

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 5%
			Failures (Nom)	Failures (Nom)
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	PGZ18	16000 h	12500 h
13950800	MASTERCcolour 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%	Life To 5%
			Failures (Nom)	Failures (Nom)
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	PGZX18.	12000 h	10000 h
13956000	CDM ELITE TMW 315/930/U/O EU	PGZX18.	12000 h	10000 h
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	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Designation
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	0.429	0.398	930	Warm white (WW)
13950800	MASTERCcolour 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	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)
13956000	CDM ELITE TMW 315/930/U/O EU	0.429	0.398	930	Warm white (WW)
13960700	CDM Elite TMW 315/942/U/O EU	0.376	0.379	942	Cool White (CW)

### Light Technical (2/3)

Order Code	Full Product Name	Correlated	Colour							
		Colour Temperature (Nom)	Colour Rendering Index (Min)	Colour Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance - 10% Life	Lumen Maintenance - 12000 h (Nom)	Lumen Maintenance - 2000 h (Nom)	Lumen Maintenance - 20000 h	Lumen Maintenance - 40% Life
54801000	MASTERCcolour CDM-TMW Elite 315W/930 1CT	3090 K	87	90	90 %	96 %	89 %	99 %	80 %	89 %

# MasterColor CDM-T Elite Med Wattage

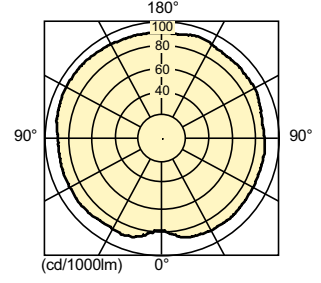
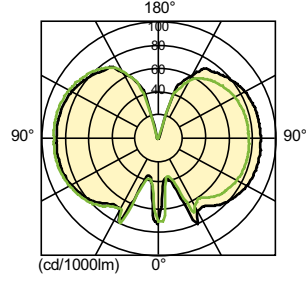
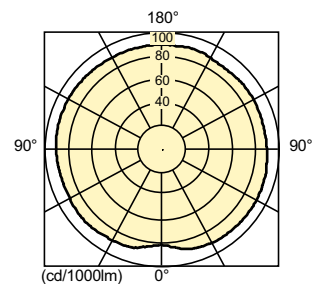
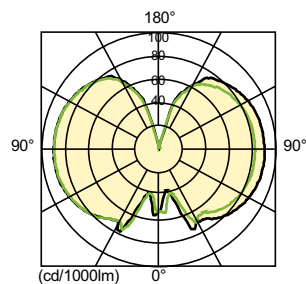
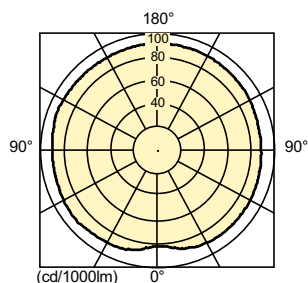
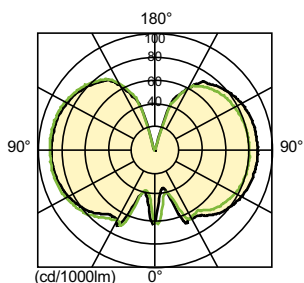
Order Code	Full Product Name	Correlated	Colour							
		Colour Temperature (Nom)	Colour Rendering Index (Min)	Colour Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance - 10% Life	Lumen Maintenance - 20000 h (Nom)	Lumen Maintenance - 20000 h (Nom)	Lumen Maintenance - 20000 h	Lumen Maintenance - 40% Life
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	2940 K	87	90	91 %	96 %	90 %	98 %	81 %	90 %
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	4140 K	90	93	86 %	96 %	82 %	98 %	81 %	82 %
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	2940 K	87	90	84 %	98 %	78 %	98 %	-	88 %
13956000	CDM ELITE TMW 315/930/U/O EU	3090 K	87	90	87 %	98 %	83 %	98 %	80 %	87 %
13960700	CDM Elite TMW 315/942/U/O EU	4140 K	87	90	93 %	97 %	91 %	97 %	80 %	95 %

## Light Technical (3/3)

Order Code	Full Product Name	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
54801000	MASTERColour CDM-TMW Elite 315W/930 1CT	96 %	112 lm/W	120 lm/W	33700 lm	35280 lm	38000 lm
13950800	MASTERColour CDM-TMW Elite 210W/930 1CT	93 %	105 lm/W	115 lm/W	21735 lm	22050 lm	24150 lm
54803400	MASTERC CDM-TMW Elite 315W/942 1CT	94 %	105 lm/W	113 lm/W	31150 lm	33100 lm	35500 lm
13954600	CDM-TP MW 210W/930 PGZX18.1CT/12	91 %	101 lm/W	111 lm/W	21600 lm	21200 lm	23300 lm
13956000	CDM ELITE TMW 315/930/U/O EU	89 %	105 lm/W	115 lm/W	31500 lm	33100 lm	36200 lm
13960700	CDM Elite TMW 315/942/U/O EU	96 %	99 lm/W	109 lm/W	30780 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
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



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