



Perfect sparkle, reliable life

MASTERColour CDM-T Elite MW

The medium wattage lighting system that gives superior, longer-lasting white light for both indoor and outdoor use

Benefits

- High quality sparkling white light
- Highest energy saving and lowest cost of ownership
- Reduced energy consumption/CO₂ emission
- Dimmable

Features

- Very high-quality white light with excellent colour rendering
- Long reliable lifetime combined with highest system efficacy
- New socket design makes lamp extremely compact and improves efficiency
- New electronic gear platform

Application

- Outdoor; floodlighting of buildings and other interesting structures. Illumination of roads and pedestrian areas, public spaces, car parks, petrol stations etc.
- Indoor; larger (high-bay) retail outlets, warehouses, manufacturing facilities etc.

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing, except for protected versions with PGZX18 cap, which are designed for open luminaires (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC61167, IEC 62035)

PHILIPS

Related products

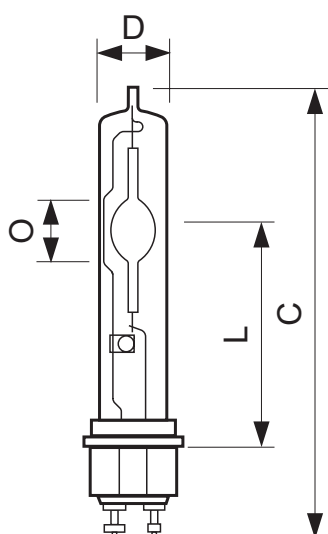


PGZX18,, T12, Clear, Protected



PGZ18, T9 (TMW28), Clear

Dimensional drawing



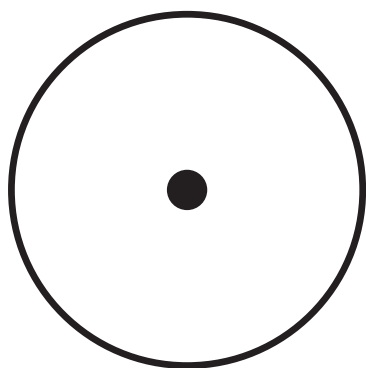
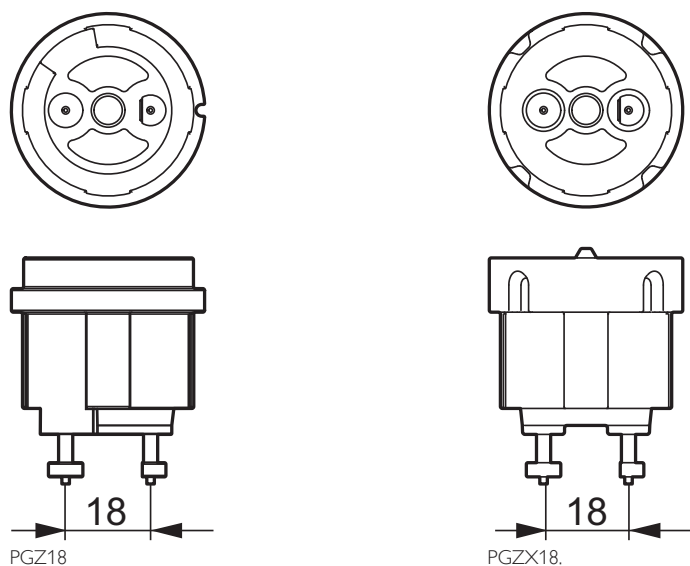
MASTERColour CDM-TMW Elite 315W/930 1CT

Product	C (Norm)	C (Max)	D (Norm)	D (Max)
CDM TMW 315W/930 PGZ18 U	186	188	28	29
CDM TMW 315W/930 PGZ18 U	186	188	28	29
CDM TMW 210W/930 PGZ18 U	186	188	28	29
CDM TMW 210W/930 PGZ18 U	186	188	28	29
CDM TMW 315W/942 PGZ18 U	186	188	28	29
CDM TMW 315W/942 PGZ18 U	186	188	28	29
CDM TMW 210W/942 PGZ18 U	186	188	28	29
CDM TMW 210W/930 PGZX18. U P	193	-	38	-
CDM TMW 315W/930 PGZX18. U P	193	-	38	-
CDM TMW 315W/930 PGZX18. U P	193	-	38	-
CDM TMW 210W/942 PGZX18. U P	193	-	38	-
CDM TMW 210W/942 PGZX18. U P	193	-	38	-
CDM TMW 210W/942 PGZX18. U P	193	-	38	-
CDM TMW 315W/942 PGZX18. U P	193	-	38	-
CDM TMW 315W/942 PGZX18. U P	193	-	38	-

General Characteristics

Order code	Full product name	Cap-Base	Bulb	Bulb Finish	Operating Position	Life to 5% failures EL	Life to 10% failures EL	Life to 50% failures EL
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	PGZX18.	T12	Clear	any	12100 hr	15400 hr	21000 hr
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	PGZX18.	T12	Clear	any	9000 hr	11500 hr	20000 hr
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	PGZX18.	T12	Clear	any	9000 hr	11500 hr	20000 hr
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	PGZX18.	T12	Clear	any	12600 hr	12000 hr	20000 hr
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	PGZX18.	T12	Clear	any	12600 hr	12000 hr	20000 hr
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	PGZX18.	T12	Clear	any	10500 hr	13300 hr	20000 hr
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	PGZX18.	T12	Clear	any	10500 hr	13300 hr	20000 hr
928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	PGZ18	TMW28	Clear	any	13900 hr	16000 hr	30000 hr
928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	PGZ18	TMW28	Clear	any	13900 hr	16000 hr	30000 hr
928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	PGZ18	TMW28	Clear	any	12000 hr	14000 hr	27000 hr
928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	PGZ18	TMW28	Clear	any	12000 hr	14000 hr	27000 hr
928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	PGZ18	TMW28	Clear	any	13900 hr	16000 hr	30000 hr
928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	PGZ18	TMW28	Clear	any	13900 hr	16000 hr	30000 hr
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	PGZ18	TMW28	Clear	any	12600 hr	15000 hr	30000 hr

Installation diagrams



any

Light Technical Characteristics (1/2)

Order code	Full product name	Color Code	Color Rendering Index	Color Designation (text)	Color Temperature	Luminous Flux Lamp EL	Luminous Efficacy Lamp EL	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lumen Maintenance 8000h	Lumen Maintenance EL 10000h
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	930	85 (min), 90 (nom) Ra8	Warm White	2950 K	23300 Lm	111 Lm/W	98 %	91 %	88 %	84 %
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	930	85 (min), 90 (nom) Ra8	Warm White	3100 K	36200 Lm	115 Lm/W	98 %	89 %	87 %	87 %
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	930	85 (min), 90 (nom) Ra8	Warm White	3100 K	36200 Lm	115 Lm/W	98 %	89 %	87 %	87 %
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	942	85 (min), 92 (nom) Ra8	Cool White	4040 K	22800 Lm	108 Lm/W	98 %	93 %	92 %	91 %
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	942	85 (min), 92 (nom) Ra8	Cool White	4040 K	22800 Lm	108 Lm/W	98 %	93 %	92 %	91 %

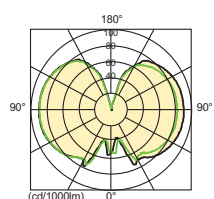
Order code	Full product name	Color Code	Color Rendering Index	Color Designation (text)	Color Temperature	Luminous Flux Lamp EL	Luminous Efficacy Lamp EL	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lumen Maintenance 8000h	Lumen Maintenance EL 10000h
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	942	85 (min), 90 (nom) Ra8	Cool White	4200 K	34300 Lm	109 Lm/W	97 %	96 %	95 %	93 %
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	942	85 (min), 90 (nom) Ra8	Cool White	4200 K	34300 Lm	109 Lm/W	97 %	96 %	95 %	93 %
928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	930	87 (min), 90 (nom) Ra8	Warm White	3100 K	38700 Lm	120 Lm/W	99 %	96 %	92 %	90 %
928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	930	87 (min), 90 (nom) Ra8	Warm White	3100 K	38700 Lm	120 Lm/W	99 %	96 %	92 %	90 %
928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	930	85 (min), 90 (nom) Ra8	Warm White	2950 K	24150 Lm	115 Lm/W	98 %	93 %	91 %	91 %
928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	930	85 (min), 90 (nom) Ra8	Warm White	2950 K	24150 Lm	115 Lm/W	98 %	93 %	91 %	91 %
928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	942	85 (min), 93 (nom) Ra8	Cool White	4200 K	35500 Lm	113 Lm/W	98 %	94 %	88 %	86 %
928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	942	85 (min), 93 (nom) Ra8	Cool White	4200 K	35500 Lm	113 Lm/W	98 %	94 %	88 %	86 %
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	942	85 (min), 92 (nom) Ra8	Cool White	4120 K	23000 Lm	108 Lm/W	98 %	94 %	92 %	91 %

Light Technical Characteristics (2/2)

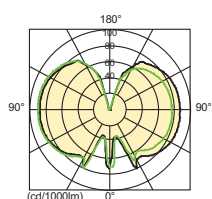
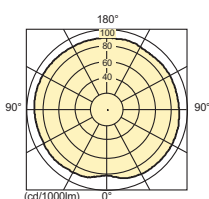
Order code	Full product name	Lumen Maintenance 12000h	Lumen Maintenance 20000h	Lumen Maintenance - 10% life	Lumen Maintenance - 40% life	Photosynthetic Photon Flux PPF	Design Mean Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	78 %	%	98 %	88 %	umol/s	21600 Lm	0.438 -	0.399 -
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	83 %	80 %	98 %	87 %	umol/s	31500 Lm	0.429 -	0.398 -
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	83 %	80 %	98 %	87 %	umol/s	31500 Lm	0.429 -	0.398 -
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	91 %	80 %	98 %	92 %	umol/s	20500 Lm	.375 -	.366 -
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	91 %	80 %	98 %	92 %	umol/s	20500 Lm	.375 -	.366 -
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	91 %	80 %	97 %	95 %	umol/s	30780 Lm	0.373 -	0.371 -
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	91 %	80 %	97 %	95 %	umol/s	30780 Lm	0.373 -	0.371 -
928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	89 %	80 %	96 %	89 %	umol/s	34440 Lm	0.429 -	0.399 -
928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	89 %	80 %	96 %	89 %	umol/s	34440 Lm	0.429 -	0.399 -
928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	90 %	81 %	96 %	90 %	umol/s	21735 Lm	0.438 -	0.399 -
928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	90 %	81 %	96 %	90 %	umol/s	21735 Lm	0.438 -	0.399 -
928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	82 %	81 %	96 %	82 %	umol/s	31150 Lm	0.376 -	0.371 -

Order code	Full product name	Lumen Maintenance 12000h	Lumen Maintenance 20000h	Lumen Maintenance - 10% life	Lumen Maintenance - 40% life	Photosynthetic Photon Flux PPF	Design Mean Lumens	Chromaticity Coordinate X	Chromaticity Coordinate Y
928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	82 %	81 %	96 %	82 %	umol/s	31150 Lm	0.376 -	0.371 -
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	90 %	80 %	95 %	90 %	umol/s	20470 Lm	0.373 -	0.366 -

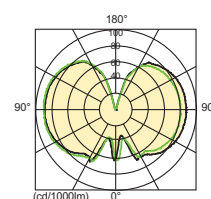
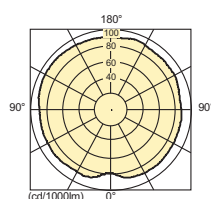
Light technical



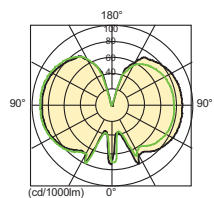
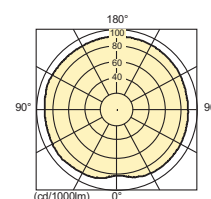
CDM-T Elite MW 315W /930



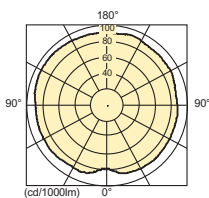
CDM-T Elite MW 210W /930



CDM-T Elite MW 315W /942



CDM-T Elite MW 210W /942

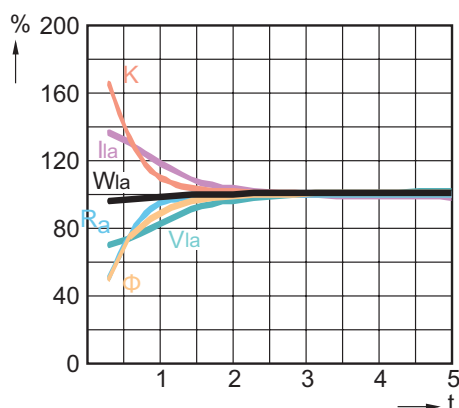


Electrical Characteristics

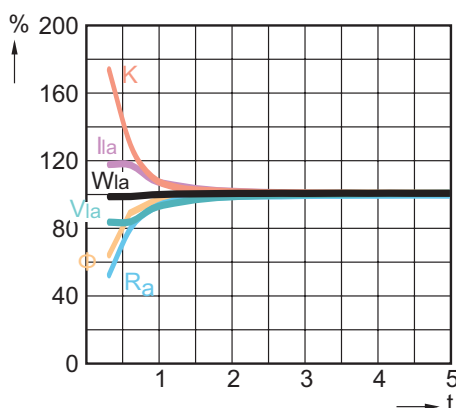
Order code	Full product name	Lamp Wattage	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal	Lamp Voltage	Lamp Current EL	Order code	Full product name	Lamp Wattage	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal	Lamp Voltage	Lamp Current EL
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	210 W	210.0 W	210.0 W	100 V	2.1 A	928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A	928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A	928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	210 W	210.0 W	210.0 W	100 V	2.1 A
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	210 W	210.0 W	210.0 W	105 V	2.0 A	928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	210 W	210.0 W	210.0 W	100 V	2.1 A
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	210 W	210.0 W	210.0 W	105 V	2.0 A	928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A	928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	315 W	315.0 W	315.0 W	100 V	3.15 A							

Order code	Full product name	Lamp Wattage	Lamp Wattage EL 25°C, Rated	Lamp Wattage EL 25°C, Nominal	Lamp Voltage	Lamp Current EL
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	210 W	210.0 W	210.0 W	98 V	2.1 A

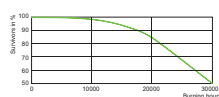
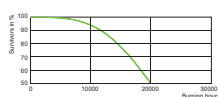
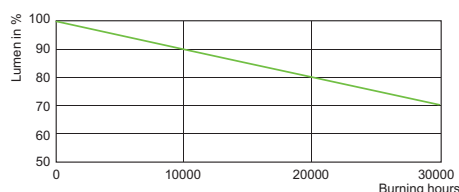
Performance diagrams



CDM-T Elite MW 315W, /930, /942



CDM-T Elite MW 210W


CDM-T Elite MW
315W /930, /942

CDM-T Elite MW
210W


CDM-T Elite MW 210W, 315W, /930, /942

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content	Pico-gram per Lumen Hour	Energy consumption kWh/1000h
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	A+	24.5 (max) mg	53 p/LuHr	231 kWh
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	A+	28 (max) mg	44.4 p/LuHr	346 kWh
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	A+	28 (max) mg	44.4 p/LuHr	346 kWh

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content	Pico-gram per Lumen Hour	Energy consumption kWh/1000h
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	A+	25 (max) mg	60.7 p/LuHr	231 kWh
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	A+	25 (max) mg	60.7 p/LuHr	231 kWh

Luminaire Design Requirements

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content	Pico-gram per Lumen Hour	Energy consumption kWh/1000h
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	A+	24 (max) mg	39.0 p/LuHr	346 kWh
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	A+	24 (max) mg	39.0 p/LuHr	346 kWh
928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	A+	28 (max) mg	27.1 p/LuHr	346 kWh
928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	A+	28 (max) mg	27.1 p/LuHr	346 kWh
928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	A+	24.5 (max) mg	40.4 p/LuHr	231 kWh
928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	A+	24.5 (max) mg	40.4 p/LuHr	231 kWh
928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	A+	24 (max) mg	25 p/LuHr	346 kWh
928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	A+	24 (max) mg	25 p/LuHr	346 kWh
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	A+	25 (max) mg	40.3 p/LuHr	231 kWh

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
928601167031	MasterColor CDM-T Elite 210W/930 U 1CT	250 C	350 (max) C
928601167130	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	250 C	350 (max) C
928601167131	MasterColor CDM-T Elite 315W/930 T12 U P 1CT	250 C	350 (max) C
928601167230	MasterColor CDM-T Elite 210W/942 U 1CT	250 (max) C	350 (max) C
928601167231	MasterColor CDM-T Elite 210W/942 U 1CT	250 (max) C	350 (max) C
928601167330	MasterColor CDM-T Elite 315W/942 U 1CT	250 C	350 (max) C
928601167331	MasterColor CDM-T Elite 315W/942 U 1CT	250 C	350 (max) C
928601164630	MASTERColour CDM-TMW Elite 315W/930 1CT	250 C	600 (max) C
928601164631	MASTERColour CDM-TMW Elite 315W/930 1CT	250 C	600 (max) C
928601164730	MASTERColour CDM-TMW Elite 210W/930 1CT	250 C	600 (max) C
928601164731	MASTERColour CDM-TMW Elite 210W/930 1CT	250 C	600 (max) C
928601164830	MASTERColour CDM-TMW Elite 315W/942 1CT	250 C	600 (max) C
928601164831	MASTERColour CDM-TMW Elite 315W/942 1CT	250 C	600 (max) C
928601164931	MASTERColour CDM-TMW Elite 210W/942 1CT	250 (max) C	600 (max) C



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2013, November 21
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