



MasterColor CDM-T Elite Med Wattage



MASTERC CDM-TMW Elite 315W/942 1CT

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.

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)

Product data

General Information	
Cap base	PGZ18 [PGZ18]
Operating position	UNIVERSAL [Any/Universal]
Life to 5% failures (nom.)	12500 h
Life to 10% failures (nom.)	16000 h
Life to 50% failures (nom.)	30000 h
ANSI code HID	C182/E
Features	na [Not Applicable]
	Sphere
Light Technical	
Colour Code	942 [CCT of 4,200 K]
Luminous flux (nom.)	35500 lm

Luminous flux (rated) (min.)	33100 lm
Luminous flux (rated) (nom.)	35500 lm
Colour designation	Cool White (CW)
Lumen maintenance 12,000 hours (nom.)	82 %
Lumen maintenance 10,000 hours (nom.)	86 %
Lumen maintenance 2,000 hours (nom.)	98 %
Lumen maintenance 20,000 hours	81 %
Lumen maintenance – 40% life	82 %
Lumen maintenance 5,000 hours (nom.)	94 %
Lumen maintenance – 10% life	96 %
Saturated Red	80
Design mean lumens	31150 lm
Chromaticity coordinate X (nom.)	0.371

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Chromaticity coordinate Y (nom.)	0.366
Correlated Colour Temperature (Nom)	4200 K
Luminous efficacy (rated) (min.)	105 lm/W
Luminous efficacy (rated) (nom.)	112 lm/W
Colour-rendering index (min.)	90
Colour rendering index (nom.)	93

Operating and Electrical

Power (Rated) (Nom)	315.9 W
Lamp current run-up (nom.)	4.7 A
Ignition supply voltage (max.)	4000 V
Ignition peak voltage (max.)	4000 V
Ignition supply voltage (min.)	3000 V
Re-ignition time (min.) (max.)	10 min
Ignition time (max.)	3 s
Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	100 V

Controls and Dimming

Dimmable	No
Run-up time 90% (max.)	3 min

Mechanical and Housing

Lamp Finish	Clear
Overall length (max.)	7.44 in
Bulb shape	TMW28 [TMW 28mm]

Approval and Application

Energy Efficiency Class	F
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Picogram per lumen hour	25 pg/lm.h
Mercury (Hg) content (max.)	25 mg
Energy consumption kWh/1,000 hours	316 kWh
	473297

UV

PET (NIOSH) (nom.)	49.7 h/500lx
Damage factor D/fc (nom.)	0.242

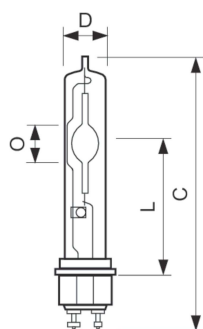
Luminaire Design Requirements

Bulb temperature (max.)	700 °C
Cap-base temperature (nom.)	250 °C
Pinch temperature (max.)	300 °C

Product Data

Full product code	871829154803400
Order product name	CDM-T Elite 315W/942 PGZ18.1CT/12
EAN/UPC – product	8718291548034
Order code	54803400
Local order code	315CDMTELITE942
SAP numerator – quantity per pack	1
Numerator – packs per outer box	12
SAP material	928601164831
SAP net weight (piece)	124.000 g
ILCOS code	MT-315/42/1A-H-PGZ18

Dimensional drawing

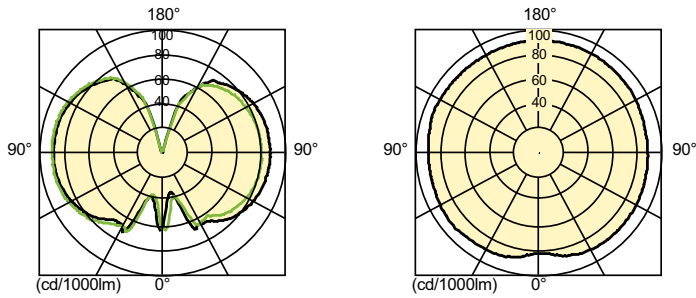


CDM TMW 315W/942 PGZ18 U

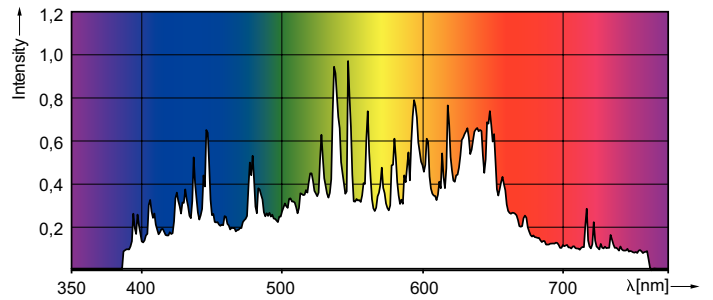
Product	D (max)	D	D	C (max)	C
CDM-T Elite 315W/942 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188 mm	186 mm

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Photometric data

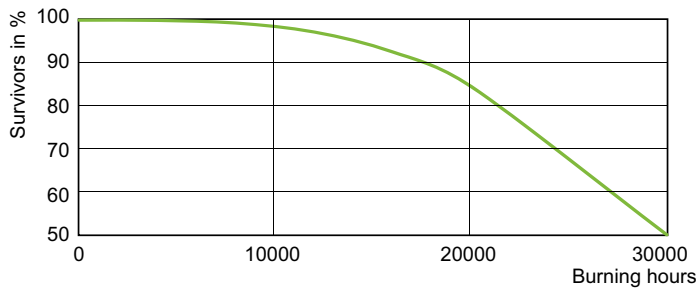


LDLD_D-CDM-T_315W_942-Light distribution diagram

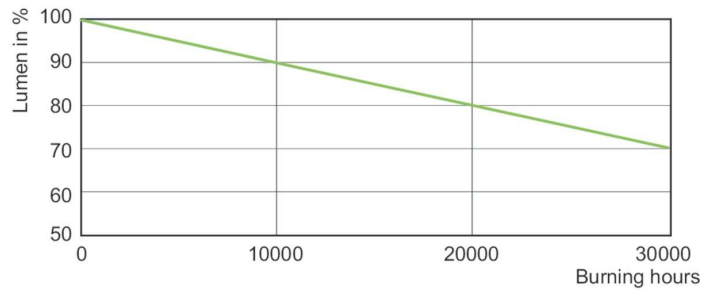


LDPO_D-CDM-T_315W_942-Spectral power distribution Colour

Lifetime



LDLE_D-CDM-T_315W_942_930-Life expectancy diagram



LDLM_D-CDM-T_0001-Lumen maintenance diagram

