



Unrivaled performance, familiar shape

MasterColor CDM ED17 Protected Elite 4200K

MasterColor Elite Protected Ceramic Metal Halide ED-17 4200K Lamps provide excellent lumen maintenance and outstanding performance over time in a protected lamp.

Avantages

- Excellent color - Up to 93 CRI (color rendering index)
- Color stability over life within +/- 200 K
- Lamp to lamp color consistency over life
- High lamp efficacy
- Elite 50W lamp provides 29% more initial lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp*
- Elite 50W lamp provided 52% more mean lumens as compared to a standard MasterColor Protected CMH ED-17 50W lamp+
- * Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 4645 initial lumens compared to MasterColor Protected ED-17 50W lamp at 3600 initial lumens.
- + Philips MasterColor Elite Protected CMH ED-17 4200K 50W Lamps provide 3716 mean lumens compared to MasterColor Protected ED-17 50W lamp at 2450 mean lumens.

Fonctions

- Application versatility
- Universal operating position
- Suitable for use in open fixtures
- Dimension, base and light center length are same as standard MasterColor ED-17 lamps
- Available in 50W, 70 W and 100W Elite lamps

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Application

- Ideal for general lighting, downlighting, and flood lighting.

Mises en garde et sécurité

- 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)
- WARNING: The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE. These lamps are designed to retain all the glass particles, should an arc tube rupture occur. The following operating instructions are recommended to minimize the occurrences.
- RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE. Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.

Renseignements généraux

Culot	E26
Durée de vie jusqu'à 50% des défaillances (nom.)	20000 h
Application principale	General Lighting (G)
Position de fonctionnement	Universal

Exigences relatives à la conception de luminaires

Température de l'ampoule (max.)	400 °C
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Données techniques sur l'éclairage

Code de couleur	940
Désignation de couleur	Cool White (CW)
Température selon la couleur corrélée (nom.)	4000 K
Indice de rendu des couleurs (min.)	87
Indice de rendu des couleurs (nom.)	90
Maintien du flux lumineux – 10 % de la durée de vie	90 %
Maintien du flux lumineux – 40 % de la durée de vie	80 %

Mécanique et boîtier

Matériau de l'ampoule	Hard Glass
Forme de l'ampoule	ED17P

Approbation et utilisation

Order Code	Full Product Name	Contenu en mercure (Hg)	
		(max.)	Picogrammes par lumen et par heure
429944	MHC50/U/MP/4K ELITE	5,4 mg	76 µg/lm.h
429950	MHC70/U/MP/4K ELITE	7,1 mg	76 µg/lm.h
429936	MHC100/U/MP/4K ELITE	10,3 mg	68 µg/lm.h
429976	MHC70/C/U/MP/4K ELITE	7,1 mg	79 µg/lm.h
429968	MHC100/C/U/MP/4K ELITE	10,3 mg	74 µg/lm.h

Fonctionnement et électricité (1/2)

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Order Code	Full Product Name	Courant de			
		la lampe (nom.)	Tension (max.)	Tension (min.)	Tension (nom.)
429944	MHC50/U/MP/4K ELITE	0,67 A	98 V	80 V	88 V
429950	MHC70/U/MP/4K ELITE	0,9 A	115 V	95 V	100 V
429936	MHC100/U/MP/4K ELITE	1,1 A	118 V	93 V	103 V

Order Code	Full Product Name	Courant de			
		la lampe (nom.)	Tension (max.)	Tension (min.)	Tension (nom.)
429976	MHC70/C/U/MP/4K ELITE	0,9 A	115 V	95 V	100 V
429968	MHC100/C/U/MP/4K ELITE	1,1 A	118 V	93 V	103 V

Fonctionnement et électricité (2/2)

Order Code	Full Product Name	Puissance (nominale) (nom.)	Temps de réamorçage (min.) (max.)
429944	MHC50/U/MP/4K ELITE	-	8 min
429950	MHC70/U/MP/4K ELITE	70,4 W	8 min
429936	MHC100/U/MP/4K ELITE	-	10 min

Order Code	Full Product Name	Puissance (nominale) (nom.)	Temps de réamorçage (min.) (max.)
429976	MHC70/C/U/MP/4K ELITE	70,4 W	8 min
429968	MHC100/C/U/MP/4K ELITE	-	10 min

Données techniques sur l'éclairage (1/2)

Order Code	Full Product Name	Coordonnée X de		Coordonnée Y de	
		chromaticité (max.)	chromaticité (min.)	chromaticité (nom.)	chromaticité (max.)
429944	MHC50/U/MP/4K ELITE	0,386	0,368	0,377	0,373
429950	MHC70/U/MP/4K ELITE	0,450	0,432	0,441	0,402
429936	MHC100/U/MP/4K ELITE	0,391	0,373	0,382	0,377

Order Code	Full Product Name	Coordonnée X de		Coordonnée Y de	
		chromaticité (max.)	chromaticité (min.)	chromaticité (nom.)	chromaticité (max.)
429976	MHC70/C/U/MP/4K ELITE	0,391	0,373	0,382	0,369
429968	MHC100/C/U/MP/4K ELITE	0,398	0,380	0,389	0,381

Données techniques sur l'éclairage (2/2)

Order Code	Full Product Name	Coordonnée Y de		Efficacité lumineuse		Flux lumineux		
		chromaticité (min.)	chromaticité (nom.)	(nominale) (min.)	(nominale) (nom.)	moyen de la conception	Flux lumineux (nominal) (min.)	Flux lumineux (nominal) (nom.)
429944	MHC50/U/MP/4K ELITE	0,361	0,367	86 lm/W	92 lm/W	3680 lm	4320 lm	4800 lm
429950	MHC70/U/MP/4K ELITE	0,390	0,392	85 lm/W	92 lm/W	4960 lm	5900 lm	6500 lm
429936	MHC100/U/MP/4K ELITE	0,362	0,371	91 lm/W	94 lm/W	7520 lm	8500 lm	9400 lm
429976	MHC70/C/U/MP/4K ELITE	0,357	0,363	80 lm/W	84 lm/W	4720 lm	5400 lm	5900 lm
429968	MHC100/C/U/MP/4K ELITE	0,369	0,375	85 lm/W	87 lm/W	6960 lm	7900 lm	8700 lm

Mécanique et boîtier

Order Code	Full Product Name	Fini de l'ampoule
429944	MHC50/U/MP/4K ELITE	Transparent
429950	MHC70/U/MP/4K ELITE	Transparent
429936	MHC100/U/MP/4K ELITE	Transparent

Order Code	Full Product Name	Fini de l'ampoule
429976	MHC70/C/U/MP/4K ELITE	Verre avec revêtement
429968	MHC100/C/U/MP/4K ELITE	Verre avec revêtement

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