



Direct retrofit and long life with immediate energy savings

Energy Advantage CDM Lamps with Allstart Technology

Philips Energy Advantage CDM lamps with AllStart Technology is a high-efficiency protected "O" rated CDM lighting solution that provides energy savings without compromising light quality.

Benefits

- Reduced maintenance and recycling costs
- Direct retrofit for both probe and pulse start magnetic ballasts (not suitable for operation on electronic ballasts)
- Excellent color rendering of CRI ≥ 85

Features

- Provides crisp, white light
- Up to 100 lumens per watt
- Universal operating position that does not affect the lamp life; exception: 860W vertical position only.
- Long life $\geq 20,000$ hrs rated average life^{>1}
- * 330W CDM lamp with AllStart™ Technology compared to 400W quartz Metal Halide lamp. ^{>1} Rated average life is the life obtained on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

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Application

- Ideal for high-ceiling industrial, retail and distribution centers as well as outdoor applications.

Warnings and Safety

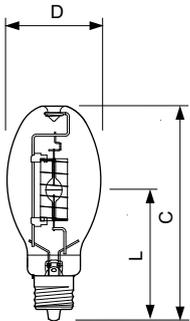
- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain 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)

Versions



330 W Exclusionary Mogul Screw
ED-37 Clear CCT of 4000K

Dimensional drawing



Product	D	D	L (min)	L (max)	L	C
CDM205/U/O/4K/EA/ED28	3.5 in	89 mm	125 mm	129 mm	127 mm	8.313 in
CDM330/U/O/4K/ED28 EA	3.5 in	89 mm	132 mm	127 mm		8.313 in
ALLSTART						

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General information

Cap-Base	EX39
Life To 50% Failures (Nom)	20000 h
Operating Position	Universal

Light technical

Chromaticity Coordinate X (Max)	0.397
Chromaticity Coordinate X (Min)	0.365
Chromaticity Coordinate X (Nom)	0.381
Chromaticity Coordinate Y (Max)	0.404
Chromaticity Coordinate Y (Min)	0.364
Chromaticity Coordinate Y (Nom)	0.384
Color Rendering Index (Min)	-
Lumen Maintenance - 40% Life	80 %

Mechanical and housing

Bulb Finish	Clear
Bulb Shape	ED28

Approval and application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Picogram Per Lumen Hour
232561	CDM205/U/O/4K EA 130V 12/1	38 mg	121.8 pg/lm.h
411058	CDM330/U/O/4K ED28	50 mg	96.7 pg/lm.h

Operating and electrical (1/2)

Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
232561	CDM205/U/O/4K EA 130V 12/1	1.9 A	138 V	118 V	128 V

Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
411058	CDM330/U/O/4K ED28	3.02 A	140 V	120 V	130 V

Operating and electrical (2/2)

Order Code	Full Product Name	Re-Ignition Time (Min) (Nom)
232561	CDM205/U/O/4K EA 130V 12/1	18.3 min

Order Code	Full Product Name	Re-Ignition Time (Min) (Nom)
411058	CDM330/U/O/4K ED28	20 min

Luminaire design requirements

Order Code	Full Product Name	Bulb Temperature (Max)
232561	CDM205/U/O/4K EA 130V 12/1	175 °C

Order Code	Full Product Name	Bulb Temperature (Max)
411058	CDM330/U/O/4K ED28	240 °C

Light technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Color	Lumen
				Rendering Index (Nom)	Maintenance - 10% Life
232561	CDM205/U/O/4K EA 130V 12/1	841	4100 Kelvin	84	94 %

Order Code	Full Product Name	Color Code	Color Designation	Color	Lumen
				Rendering Index (Nom)	Maintenance - 10% Life
411058	CDM330/U/O/4K ED28	940	4000 Kelvin	87	90 %

Light technical (2/2)

Order Code	Full Product Name	Luminous Efficacy	Luminous Efficacy	Luminous Design Mean	Luminous Flux	Luminous Flux
		(rated) (Min)	(rated) (Nom)	(Rated) Lumens (Min)	(Rated) Flux (Min)	(Rated) Flux (Nom)
232561	CDM205/U/O/4K EA 130V 12/1	88 lm/W	95 lm/W	15600 lm	18000 lm	19500 lm

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Order Code	Full Product Name	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
411058	CDM330/U/O/4K ED28	91 lm/W	97 lm/W	25600 lm	30000 lm	32000 lm

