



# Energy Advantage CDM Lamps with Allstart Technology

145W 4K ED28 CL U EA AllStart

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.

## Product data

### • General Characteristics

Base	Exclusionary Mogul Screw [Exclusionary Mogul Screw]
Bulb	ED28
Bulb Finish	Clear
Operating Position	Universal [Any or Universal (U)]
RatedAvgLife(See Family Notes)	20000 hr

### • Light Technical Characteristics

Color Code	940 [CCT of 4000K]
Color Rendering Index	87 Ra8
Color Designation	4000 Kelvin
Color Temperature	4050 K
Color Temperature technical	4050 K
Initial lumen	13775 Lm
Luminous Efficacy Lamp	95 Lm/W
Lumen Maintenance - 10% life	90 %
Lumen Maintenance - 40% life	80 %
Design Mean Lumens	11020 Lm
Chromaticity Coordinate X	.363 (min), .379 (nom), .394 (max)
Chromaticity Coordinate Y	.373 (min), .375 (nom), .377 (max)

### • Electrical Characteristics

Watts	145 W
Lamp Voltage	125 V
Lamp Current	1.45 A
Ignition Time	120 (max) s

Re-ignition Time [min]	8 (max) min
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### • Environmental Characteristics

Mercury (Hg) Content	37 (max) mg
Picogram per Lumen Hour	163.1 p/LuHr

### • UV-related Characteristics

Damage Factor D/fc PET (NIOSH)	0.58 - 48.5 h500lx
UV A	21.57 mW/cm <sup>2</sup>
UV B	0.23 mW/cm <sup>2</sup>
UV C	0.06 mW/cm <sup>2</sup>

### • Luminaire Design Requirements

Cap-Base Temperature	103 C
Bulb Temperature	400 (max) C

### • Product Dimensions

Diameter D	88.9 mm
Light Center Length L	125 (min), 127 (nom), 129 (max) mm
Maximum Overall Length [inch]	8.313 (max) in
Light Center Length L	5 in
Diameter D	3.5 in

**PHILIPS**

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## • Product Data

Product number 411074  
 Full product name 145W 4K ED28 CL U EA AllStart  
 Short product name CDM145/U/O/4K/ED28 EA  
 ALLSTART  
 Pieces per Sku 1

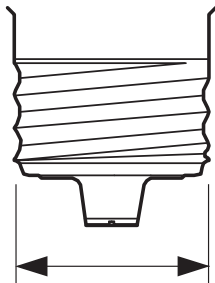
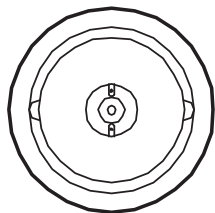
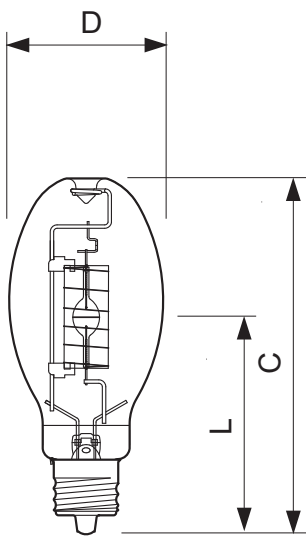
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## Warnings and Safety

- 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)

## Dimensional drawing



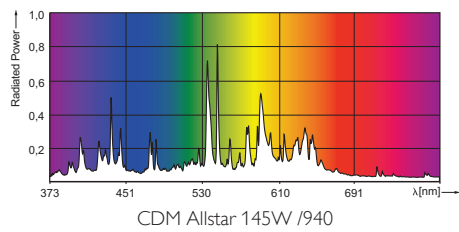
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EX39

## 145W 4K ED28 CL U EA AllStart

Product	C (Max)	D (Norm)	L (Norm)
CDMAllstar 145W/940 ED28 U EA AllStart	8.313	3.5	5

## Photometric data



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2014, February 1  
data subject to change