

Filament-LED ED90/ED120

20W/28W/36W/43W

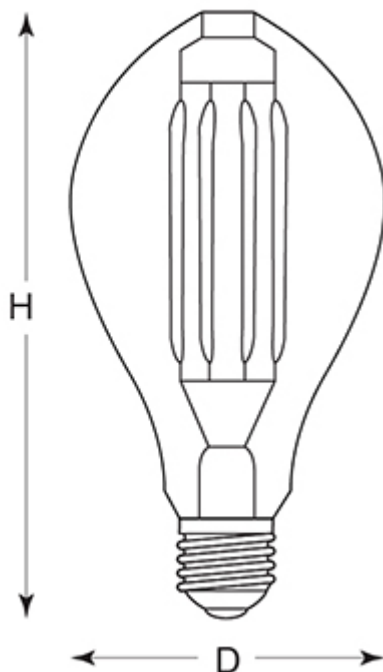
Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra $\geq 70/80$



Diagrams

Dimensions:



(Unit : mm)	(D)	(H)
ED90	86	x 232
ED120	119	x 270

Prosperity Lamps & Components Ltd.

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E26 CL:



E26 FR:



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Standards



Applications



Shopping mall



Hotel



Supermarket



Garden



Warehouse



Station

Technical Data

Type of Light Source

Lighting Technology Used	LED
Non-directional or Directional [NDLS/DLS]	NDLS
Mains or Non-mains [MLS/NMLS]	MLS
Connected Light Source	No
Color tunable light source	No
Envelop [No/Second/Non-Clear]	No
High Luminance Light Source	No
Anti-glare Shield	No

Electrical

Rated Wattage [W]	20W/ 28W/ 36W/ 43W
On-mode Power [W]	20W/ 28W/ 36W/ 43W
Standby Power [W]	N/A
Networked Standby Power [W]	N/A
Rated Voltage [V/Hz]	110-264Vac, 50/60Hz
Power Factor @230V	0.9
Input Current [mA] @230V	97/ 135/ 174/ 208
LED	4/ 8/ 8/ 10 strips

Model

LED ED90 FIL-20W-G	20W
LED ED120 FIL-28W-G	28W
LED ED120 FIL-36W-G	36W
LED ED120 FIL-43W-G	43W

Luminous Flux (Useful Luminous Flux) [lm]

20W (Clear Glass)	3000lm@5000K, Ra 80
	3200lm@5000K, Ra 70
28W (Clear Glass)	4200lm@5000K, Ra 80
	4480lm@5000K, Ra 70

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36W (Clear Glass)	5400lm@5000K, Ra 80
	5760lm@5000K, Ra 70
43W (Clear Glass)	6450lm@5000K, Ra 80
	6880lm@5000K, Ra 70
20W (Frosted Glass)	2800lm@5000K, Ra 80
	3000lm@5000K, Ra 70
28W (Frosted Glass)	3920lm@5000K, Ra 80
	4200lm@5000K, Ra 70
36W (Frosted Glass)	5040lm@5000K, Ra 80
	5400lm@5000K, Ra 70
43W (Frosted Glass)	6020lm@5000K, Ra 80
	6450lm@5000K, Ra 70

Performance

SCDM	<6
Chromaticity coordinates [x, y]	0.345,0.356 @5000K
Efficacy [lm/W]	≥150@Ra80
	≥160@Ra70
Color Rendering Index [Ra]	≥80 / ≥80
R9 colour rendering index value	2
Beam Angle [°]	270
Rated Life, Ta@25°C [hrs]	15,000
Lamp Survival Factor	0.9
Lumen Maintenance	0.96
Number of Switching Cycles Before Failure	>7,500
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Displacement Factor [cosØ]	0.5
Flicker Metric [Pst LM]	1
Stroboscopic Effect Metric [SVM]	0.4

Mechanical

Diameter D [mm]	Φ86/ Φ119
Height H [mm]	232/ 270
Base	E26/ E27/ E39/ E40
Material	Aluminium + PC

Standard Compliance

CE-LVD	EN62560
CE-EMC	EN55015, EN61547, EN61000-3-2, EN61000-3-3
CE-EMF	EN62493
Environment	RoHS
Mercury Content [mg]	0.0
Energy Class	E

Other

Dimmable [Yes/Only with specific dimmers/No]	No
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Operation Temperature	-20°C ~ 50°C
Storage Temperature	-10°C ~ 30°C
Claim of Equivalent Power, 20W [W]	187W / 177W
Claim of Equivalent Power, 28W [W]	251W / 237W
Claim of Equivalent Power, 36W [W]	310W / 297W
Claim of Equivalent Power, 43W [W]	371W / 349W
Energy Consumption in on-mode [kWh/1000h]	20kWh / 28kWh / 36kWh / 43kWh