

LED HP Corn Lamp

20W-150W

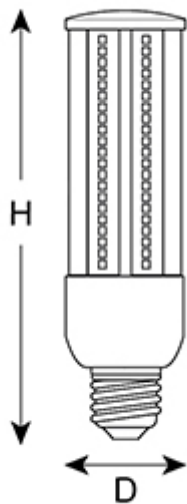
Features

- Extremely energy saving with low power consumption
- Ideal retrofit of high wattage traditional lamps
- Widely used for indoor, commercial and low / high bay lighting
- Double insulated driver with silicone sealant
- Instant full light
- No mercury and hazardous substances
- Good color rendition, Ra ≥80



Diagrams

Dimensions:



(Unit : mm)	(D)	(H) E27 / E40
20W	Ø60	x 178 / 206
24W	Ø60	x 207 / 226
36W	Ø90	x 210 / 220
45W	Ø90	x 235 / 245
54W	Ø90	x 260 / 270
60W	Ø90	x 260 / 270
80W	Ø105	x 290 / 300
100W	Ø105	x 290 / 300
120W	Ø105	x 320 / 330
150W	Ø105	x 320 / 330

Prosperity Lamps & Components Ltd.

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Standards



Applications



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 / 24W / 36W / 45W / 54W / 60W / 80W / 100W / 120W / 150W
On-mode Power [W]	20W / 24W / 36W / 45W / 54W / 60W / 80W / 100W / 120W / 150W
Standby Power [W]	N/A
Networked Standby Power [W]	N/A
Rated Voltage [V/Hz]	100-277Vac, 50/60Hz
Power Factor @230V	0.9
Input Current [mA] @230V	97 / 116 / 174 / 217 / 261 / 290 / 386 / 483 / 580 / 725
Model	
LED HPL 20W	20W
LED HPL 24W	24W
LED HPL 36W	36W
LED HPL 45W	45W
LED HPL 54W	54W
LED HPL 60W	60W
LED HPL 80W	80W
LED HPL 100W	100W

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LED HPL 120W	120W
LED HPL 150W	150W
Luminous Flux (Useful Luminous Flux) [lm]	
20W	2300lm @3000K
	2350lm @4000K
	2400lm @6500K
24W	2700lm @3000K
	2750lm @4000K
	2800lm @6500K
36W	4200lm @3000K
	4250lm @4000K
	4300lm @6500K
45W	5200lm @3000K
	5300lm @4000K
	5400lm @6500K
54W	6300lm @3000K
	6400lm @4000K
	6500lm @6500K
60W	6600lm @3000K
	6800m @4000K
	7000lm @6500K
80W	9000lm @3000K
	9300lm @4000K
	9600lm @6500K
100W	11000lm @3000K
	11500lm @4000K
	12000lm @6500K
120W	13500lm @3000K
	13950lm @4000K
	14400lm @6500K
150W	17000lm @3000K
	17500lm @4000K
	18000lm @6500K
Performance	
SCDM	<6
Chromaticity coordinates [x, y]	0.44, 0.403@3000K / 0.38, 0.38@4000K / 0.312, 0.335@6500K
Efficacy [lm/W]	110-120
Color Rendering Index [Ra]	≥80
R9 colour rendering index value	2
Beam Angle [°]	360
Rated Life, Ta@25°C [hrs]	50,000
Lamp Survival Factor	0.9
Lumen Maintenance	0.96
Number of Switching Cycles Before Failure	>15,000

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Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Displacement Factor [cosØ]	0.7 / 0.7 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9
Flicker Metric [Pst LM]	1
Stroboscopic Effect Metric [SVM]	0.4
Mechanical	
Diameter D [mm] x Height H [mm]	20W: Ø60 x 178 (E27) / 206 (E40)
	24W: Ø60 x 207 (E27) / 226 (E40)
	36W: Ø90 x 210 (E27) / 220 (E40)
	45W: Ø90 x 235 (E27) / 245 (E40)
	54W: Ø90 x 260 (E27) / 270 (E40)
	60W: Ø90 x 260 (E27) / 270 (E40)
	80W: Ø105 x 290 (E27) / 300 (E40)
	100W: Ø105 x 290 (E27) / 300 (E40)
	120W: Ø105 x 320 (E27) / 330 (E40)
	150W: Ø105 x 320 (E27) / 330 (E40)
Base	E27 / 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
Operation Temperature	-20°C ~ 50°C
Storage Temperature	-10°C ~ 30°C
Claim of Equivalent Power, 20W [W]	40W / 70W
Claim of Equivalent Power, 24W [W]	45W / 70W
Claim of Equivalent Power, 36W [W]	75W / 70W
Claim of Equivalent Power, 45W [W]	100W / 70W
Claim of Equivalent Power, 54W [W]	100W / 100W
Claim of Equivalent Power, 60W [W]	120W / 100W
Claim of Equivalent Power, 80W [W]	100W
Claim of Equivalent Power, 100W [W]	150W
Claim of Equivalent Power, 120W [W]	150W
Claim of Equivalent Power, 150W [W]	250W
Energy Consumption in on-mode [kWh/1000h]	20kWh / 24kWh / 36kWh / 45kWh / 54kWh / 60kWh / 80kWh / 100kWh / 120kWh / 150kWh

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