

LED Panel NP141E-147E

20W/40W/45W/50W/55W/60W/90W

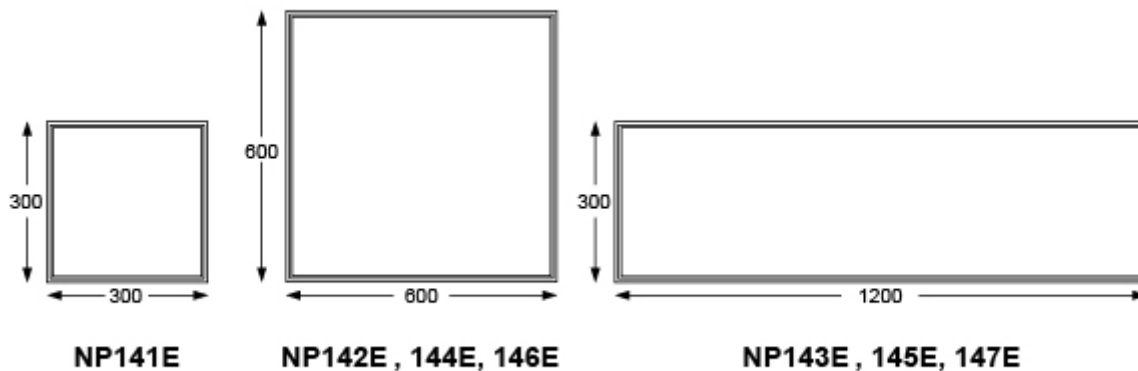
Features

- 20W / 40W / 45W / 50W / 55W / 60W / 90W LED Panel
- Frosted PC diffuser provide uniform distribution
- Comfort glare-free light
- Good color rendition, Ra ≥80



Diagrams

Dimensions:



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]	DLS
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 / 40W / 45W / 50W / 55W / 60W / 90W
On-mode Power [W]	20W / 40W / 45W / 50W / 55W / 60W / 90W
Standby Power [W]	N/A
Networked Standby Power [W]	N/A
Rated Voltage [V/Hz]	220-240V, 50/60Hz
Power Factor	0.5 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9
Input Current [mA] @230V	174 / 193 / 217 / 242 / 266 / 290 / 435
Model	
NP141E-20W/8XX	20W
NP142E-40W/8XX	40W
NP143E-45W/8XX	45W
NP144E-50W/8XX	50W
NP145E-55W/8XX	55W
NP146E-60W/8XX	60W
NP147E-90W/8XX	90W
Luminous Flux (Useful Luminous Flux) [lm]	
20W	1590lm (1510lm) @3000K
	1640lm (1560lm) @4000K

	1685lm (1600lm) @6500K
40W	3600lm (3420lm) @3000K
	3700lm (3515lm) @4000K
45W	3800lm (3610lm) @6500K
	3770lm (3580lm) @3000K
	3810lm (3620lm) @4000K
50W	3855lm (3660lm) @6500K
	4210lm (4000lm) @3000K
	4315lm (4100lm) @4000K
55W	4420lm (4200lm) @6500K
	4640lm (4410lm) @3000K
	4680lm (4445lm) @4000K
60W	4800lm (4560lm) @6500K
	5105lm (4850lm) @3000K
	5210lm (4950lm) @4000K
90W	5315lm (5050lm) @6500K
	7695lm (7310lm) @3000K
	7820lm (7430lm) @4000K
	7950lm (7550lm) @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]	85-95
Color Rendering Index [Ra]	≥80
R9 colour rendering index value	2
Beam Angle [°]	115
Rated Life, Ta@25°C [hrs]	50,000
Lamp Survival Factor	0.9
Lumen Maintenance	0.96
Number of Switching Cycles Before Failure	25,000
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Displacement Factor [cosØ]	0.7 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9 / 0.9
Flicker Metric [Pst LM]	1
Stroboscopic Effect Metric [SVM]	0.4
Mechanical	
Length L [mm]	300 / 600 / 600 / 600 / 300 / 300 / 300
Width W [mm]	300 / 600 / 600 / 600 / 1200 / 1200 / 1200
Height H [mm]	33 / 35 / 35 / 35 / 35 / 35 / 35
Material	Body: Sheet steel housing with white finish
	Diffuser: Frosted PC
Standard Compliance	

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CE-LVD	EN62560
CE-EMF	EN62493
Environment	RoHS
Mercury Content [mg]	0.0
Energy Class	F
Other	
Dimmable [Yes/Only with specific dimmers/No]	No
Operation Temperature	-10°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Energy Consumption in on-mode [kWh/1000h]	20kWh / 40kWh / 45kWh / 50kWh / 55kWh / 60kWh / 90kWh