LED Multi-Functional Linear Lamp NL231E-NL233E
10W/15W/20W/30W/45W

Features



· Full color spectrum
· Excellent color rendition, Ra 98
· Energy saving with low power consumption
· Length customization according to the furnishing
· Lumen efficacy can be up to 120lm/W under Ra 80
· Higher wattage is available upon request
· Multi-functional applications for showcase, wall washer, desktop shelves or furnishing lighting
· Long average life 25,000 hours
· Low thermal output with no IR and harmful UV
· No mercury and hazardous substances
· Accessories: Mounting clip, End cap, Cable, Connecting cable

Diagrams

Dimensions:



(Unit : mm)	(L)		(W)		(H)	Max. no. of luminaires interconnected
10W	415	x	52	x	52	10
20W	1015	x	52	x	52	7
30W	1515	x	52	x	52	5

Standards

CE IP20

Prosperity Lamps & Components Ltd.
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Applications


Home


Office


Hotel


School


Gallery


Museum

Technical Data	
Electrical	
Rated Wattage [W]	10W / 15W / 20W / 30W / 45W
Rated Voltage [V/Hz]	220-240Vac, 50/60Hz
Power Factor @230Vac	0.5 / 0.5 / 0.5 / 0.9 / 0.9
Input Current [mA] @230Vac	87 / 130 / 174 / 145 / 217
LED	SMD
Model	
NL231E-10W/936	10W
NL231E-15W/8XX	15W
NL232E-20W/936	20W
NL232E-30W/8XX	30W
NL233E-30W/936	30W
NL233E-45W/8XX	45W
Luminous Flux [lm]	
10W	650lm @Ra98, 3600K
15W	1650lm @Ra80, 3000K
	1730lm @Ra80, 4000K
	1800lm @Ra80, 6500K
20W	1300lm @Ra98, 3600K
30W	1650lm @Ra98, 3600K
	3300lm @Ra80, 3000K
	3450lm @Ra80, 4000K
	3600lm @Ra80, 6500K
45W	4950lm @Ra80, 3000K
	5180lm @Ra80, 4000K
	5400lm @Ra80, 6500K
Performance	
SDCM	<6
Efficacy [lm/W]	55-120
Color Rendering Index [Ra]	≥98 / ≥80
Beam Angle [°]	90
Rated Life, Ta@25°C [hrs]	25,000
Lamp Survival Factor at 6000hrs	>0.9
Lumen Maintenance at 3000hrs	>0.8

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Number of Switching Cycles Before Failure	>15,000
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Mechanical	
Width W [mm]	52
Height H [mm]	52
Length L [mm]	415 / 1015 / 1515
Material	Body: Aluminium
	Diffuser: Acrylic
	End Cap: PC
Standard Compliance	
CE-LVD	EN60598-1, EN60598-2-1, EN61347-1, EN61347-2-13
CE-EMC	EN55015, EN61547, EN61000-3-2, EN61000-3-3
CE-EMF	EN62493
Mercury Content [mg]	0.0
Electrical Class	I
Other	
Dimmable [Y/N]	N
Operation Temperature	-10°C ~ 40°C
Storage Temperature	-20°C ~ 60°C

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