

Title **PLS-11W-NL-215-IEC Product Specification**

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Market:**1 Dimensions &Cap**

	Referenced standard	Dimensions	Min.	Rated	Max.	Unit
	IEC60901	A	25	26.5	28.0	mm
B		11.5	12.0	12.5	mm	
C		/	207.0	215.0	mm	
Cap		2G7				
A		25	26.5	28.0	mm	
IEC60901	B	11.5	12.0	12.5	mm	
	C	/	204.0	215.0	mm	
	D	/	227.0	237.0	mm	
	Cap	G23				

2 Reference Ballast characteristics

Nominal wattage(w)	Rated voltage(V)	Calibration current (A)	Voltage/current ratio(Ω)	Frequency (Hz)	Power factor	Others
9W	220	0.170	1180	50	0.12	/

3 Electrical Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Nominal power	P	100 hrs, 25°C Ref. ballast, 9W	IEC60901	11		W
Rated watts	P			11.8	≤ 12.9	W
Lamp voltage	U			91	± 10	V
Lamp current	I			155		mA

4 Photometrical Characteristics

Parameter (Lumen)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	Φ	100 hrs, 25°C Ref. ballast, 9W	/	836	-8%	lm
3500K/4100K	Φ			836		
5000K/6500K	Φ			759		

5 Efficiency

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	η	100 hrs, 25°C Ref. ballast, 9W	(EC)No. 245/2009 (EU)No. 347/2010	76	/	lm/W
3500K/4000K	η			76		
5000K/6500K	η			69		

6 Color Characteristics

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Color-2700K	Tc	100 hrs, 25°C Ref. ballast, 9W	IEC60081	x=0.463 y=0.420		
Color-3000K	Tc			x=0.440 y=0.403		
Color-3500K	Tc			x=0.411 y=0.393		
Color-4000K	Tc			x=0.380 y=0.380		
Color-5000K	Tc			x=0.346 y=0.359		
Color-6500K	Tc			x=0.313 y=0.337		
CRI-827/830	Ra			82	-2	
CRI-835/840	Ra			82	-2	
CRI-850/865	Ra			82	-2	
Color tolerance	SDCM				≤ 5.0	



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7 Lumen maintenance &Life

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit	
Lumen maintenance	%	2000hrs,	(EU) NO. 347-2010	85	%	
		4000hrs,		165minutes"On",		78
		8000hrs,		15minutes"Off"Ref.		75
		/		ballast, 9w		/
Life	h	Switching cycle:165minutes "On", 15minutes"Off" IEC-PLS-9W ballast,	IEC 60901	12,000	h	

8 Ignition Requirement

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Ignition time	t	Ref.ballast, 9w, 198v, 25°C	/	≤10	s

9 Cathode Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Hot resistance	Rh	/	/	/	Ω
Rh/RC	Rh/Rc	/	/	/	/

10 safety Requirement

All of safety item	Comply with IEC-61199
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Prepared (Date)	Audit (Date)	Joint signature (Date)	Approved (Date)
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