



Title

PLS-7W-NL-115-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		/	114.0	115.0	mm	
Cap		2G7				
A		25	26.5	28.0	mm	
IEC60901	B	11.5	12.0	12.5	mm	
	C	109.0	111.0	112.0	mm	
	D	132.0	133.0	135.0	mm	
	Cap	G23				

**2 Reference Ballast characteristics**

Nominal wattage (w)	Rated voltage (V)	Calibration current (A)	Voltage/current ratio ( $\Omega$ )	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	7		W
Rated watts	P			7.1	$\leq 7.9$	W
Lamp voltage	U			47	$\pm 5$	V
Lamp current	I			175		mA

**4 Photometrical Characteristics**

Parameter (Lumen)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	$\Phi$	100 hrs, 25°C Ref. ballast, 9W	/	400	-8%	lm
3500K/4100K	$\Phi$			400		
5000K/6500K	$\Phi$			370		

**5 Efficiency**

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	$\eta$	100 hrs, 25°C Ref. ballast, 9W	(EC)No. 245/2009 (EU)No. 347/2010	57	/	lm/W
3500K/4000K	$\eta$			57		
5000K/6500K	$\eta$			51		

**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				$\leq 5.0$	



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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,		78	
		8000hrs,		75	
		/		/	
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

Prepared (Date)	Audit (Date)	Joint signature (Date)	Approved (Date)
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