



Title

T9C-32W-Halo-NL-299-IEC Product Specification

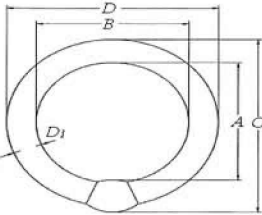
Version: A/0

Issuance date:

Page: 1/2

Market:

1 Dimensions &Cap

	Referenced standard	Dimension	Rated	Tolerance	Unit
	IEC 60901	A	243.0	± 3	mm
		B	243.0	± 4	mm
		C/D	299.0	± 5	mm
		D1	28.5	± 1	mm
Cap		G10q			

2 Reference Ballast characteristics

Nominal wattage(w)	Rated voltage(V)	Calibration current (A)	Voltage/current ratio(Ω)	Frequency (Hz)	Power factor	Others
32	220	0.450	415	50	0.1	/

3 Electrical Characteristic

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Nominal power	P	100 hrs, 25°C T9-32W Ref. ballast	IEC 60901	32.0		W
Rated watts	P			32.0	≤ 34.1	W
Lamp voltage	U			84	± 10	V
Lamp current	I			450		mA

4 Photometrical Characteristic

Parameter (Lumen)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	Φ	100 hrs, 25°C T9-32W Ref. ballast	/	2000	-8%	lm
3500K/4100K	Φ			2000		
5000K/6500K	Φ			1750		

5 Efficiency

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	η	100 hrs, 25°C T9-32W Ref. ballast	/	61	/	lm/W
3500K/4000K	η			61		
5000K/6500K	η			53		

6 Color Characteristics

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Color-2700K	Tc	100 hrs, 25°C T9-32W Ref. ballast	IEC 60081	/		
Color-3000K	Tc			x=0.440 y=0.403		
Color-3500K	Tc			x=0.409 y=0.394		
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-027	Ra		/	/	-3	
CRI-030	Ra			49	-3	
CRI-035	Ra			54	-3	
CRI-040	Ra			60	-3	
CRI-050	Ra			70	-3	
CRI-065	Ra			75	-3	
Color tolerance	SDCM			IEC 60081		≤ 4



Title

T9C-32W-Halo-NL-299-IEC Product Specification

Version: A/0

Issuance date:

Page: 2/2

7 Lumen maintenance & Life

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit	
Lumen maintenance	%	2000hrs,	/	85	%	
		4000hrs,		165minutes "On" ;		80
		8000hrs,		15minutes "Off" ;		78
		/		T9-32W Ref. ballast		/
Life	h	165minutes "On" ; 15minutes "Off" ; T9-32W Ref. ballast	/	12,000	h	

8 Ignition Requirement

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Ignition time	t	198V/50Hz, with T9-32W ballast	/	≤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)



Title

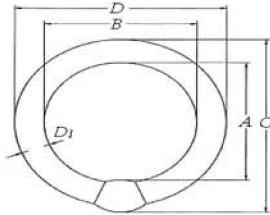
T9C-40W-Halo-NL-399-IEC Product Specification

Version: A/0

Issuance date:

Page: 1/2

Market:**1 Dimensions &Cap**

	Referenced standard	Dimension	Rated	Tolerance	Unit
	IEC 60901	A	344.5	± 3	mm
		B	343.0	± 4	mm
		C/D	400.0	± 5	mm
		D1	28.5	± 1	mm
灯头	G10q				

2 Reference Ballast characteristics

Nominal wattage(w)	Rated voltage(V)	Calibration current (A)	Voltage/current ratio(Ω)	Frequency (Hz)	Power factor	Others
40	220	0.430	390	50	0.1	/

3 Electrical Characteristic

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Nominal power	P	100 hrs, 25°C T9-40W Ref. ballast	IEC 60901	40.0		W
Rated watts	P			40.0	≤ 42.5	W
Lamp voltage	U			115	± 10	V
Lamp current	I			415		mA

4 Photometrical Characteristic

Parameter (Lumen)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	Φ	100 hrs, 25°C T9-40W Ref. ballast	/	2600	-8%	lm
3500K/4100K	Φ			2600		
5000K/6500K	Φ			2300		

5 Efficiency

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	η	100 hrs, 25°C T9-40W Ref. ballast	/	63	/	lm/W
3500K/4000K	η			63		
5000K/6500K	η			58		

6 Color Characteristics

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Color-2700K	Tc	100 hrs, 25°C T9-40W Ref. ballast	IEC 60081	/		
Color-3000K	Tc			x=0.440 y=0.403		
Color-3500K	Tc			x=0.409 y=0.394		
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-027	Ra		/	/	-3	
CRI-030	Ra			49	-3	
CRI-035	Ra			54	-3	
CRI-040	Ra			60	-3	
CRI-050	Ra			70	-3	
CRI-065	Ra			75	-3	
Color tolerance	SDCM			IEC 60081		≤ 4



Title

T9C-40W-Halo-NL-399-IEC Product Specification

Version: A/0

Issuance date:

Page: 2/2

7 Lumen maintenance &Life

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit	
Lumen maintenance	%	2000hrs,	/	85	%	
		4000hrs,		165minutes "On" ;		80
		8000hrs,		15minutes "Off" ;		78
		/		T9-40W Ref. ballast		/
Life	h	165minutes "On" ; 15minutes "Off" ; T9-40W Ref. ballast	/	12,000	h	

8 Ignition Requirement

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Ignition time	t	198V/50Hz, with T9-40W ballast	/	≤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)