METAL HALIDE LAMP Superia CMI-TC 20W WDL/UVS

DIMENSIONS (mm)

85 max

17 max

52±1

Mercury Content : 2.6 mg

Cap : G8.5 (IEC 60061-1)

Bulb : UV-stop quartz glass clear, tubular

	Magnetic Gear			Electronic Gear		
	NOM.	MIN.	MAX.	NOM.	MIN.	MAX.
ELECTRICAL DATA:						
Lamp wattage **(W r.m.s.)**				20		
Lamp voltage **(V r.m.s.)**				90	80	100
Lamp current **(A r.m.s.)**				0.22		
Lamp warm-up current **(A r.m.s.)**					0.30	0.50
Lamp inrush current **(A peak)**						
OPERATING CONDITIONS:	Operation on LFSW electronic ballast only					
Burning position	-			universal		
Fixture type	-			closed with protective front shield		
Ballast type	-			Electronic LFSW ballast for 20 W		
Ignitor pulse height **(kV peak)**					3.0	5.0
Ignitor pulse width at 90% peak **(µs/s)**		-			100	
Pinch temperature **(℃)**			-			280
Bulb temperature **(℃)**			-			400
Adjacent to cap temperature **(℃)**			-			-
LAMP LIFE:						
Rated average life **(h)**	-			18000		
Life to 10% failures **(h)**	-			10000		
PHOTOMETRIC DATA*:						
Initial luminous Flux **(lm)**				1900		
Luminous efficacy **(lm/W)**				95		
Correlated colour temp. **(K)**				3000		
Colour rendering index				85		
Colour point (x,y)	-			(.434, .398)		

* Data for **vertical** burning position after 100 h ageing

APPLICATION Lamps comply with the requirements of IEC publications 61167, 62035 and 62471. Electromagnetic ballasts must comply with IEC 60923 and electronic ballasts with IEC 61167, annex G. Ignitors used must be in accordance with IEC 60927 and luminaires with IEC 60598-1. Lamp inspection is performed in accordance with IEC 60410. The luminaire must be provided with a safety screen (shattering and UV). Because of a possible risk of abnormal operation at the end of life, thermally protected balalsts must be used.
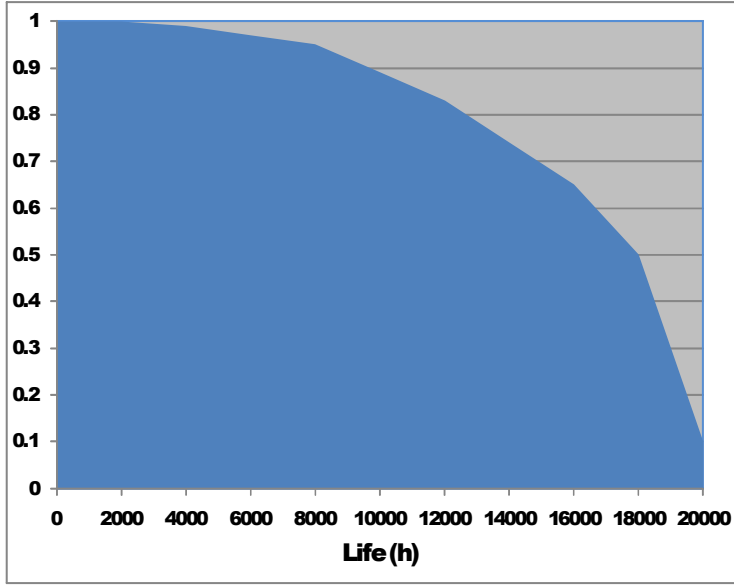
SYLVANIA

METAL HALIDE LAMP

Superia CMI-TC 20W WDL/UVS

SURVIVAL RATE
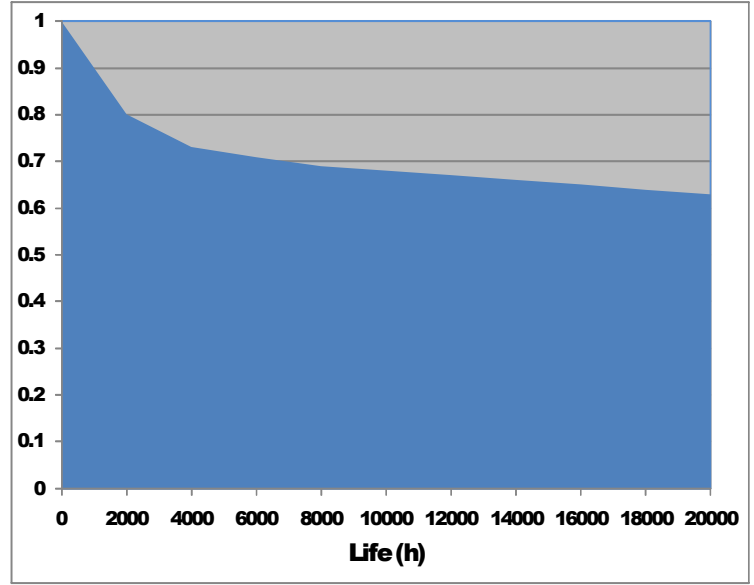
2000h	4000h	6000h	8000h	12000h	16000h
1.00	0.98	0.96	0.94	0.83	0.65

LUMEN MAINTENANCE

2000h	4000h	6000h	8000h	12000h	16000h
0.80	0.73	0.71	0.69	0.67	0.65

LAMP SPECTRUM
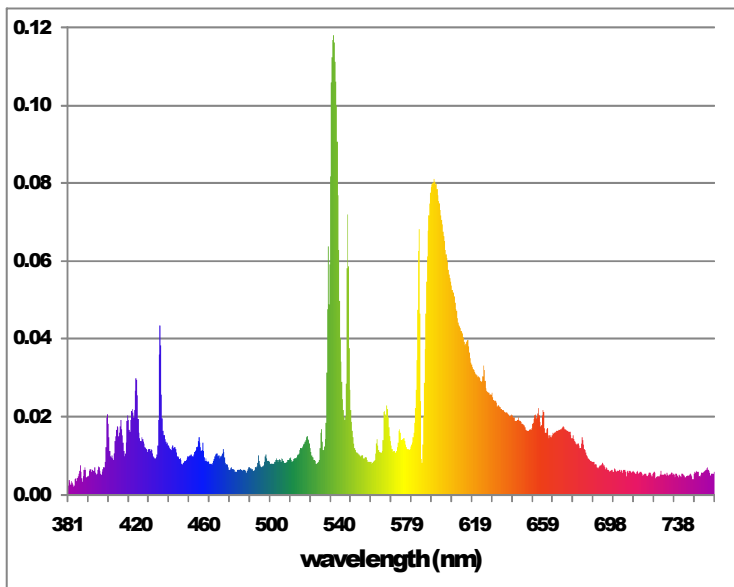
COLOUR RENDERING
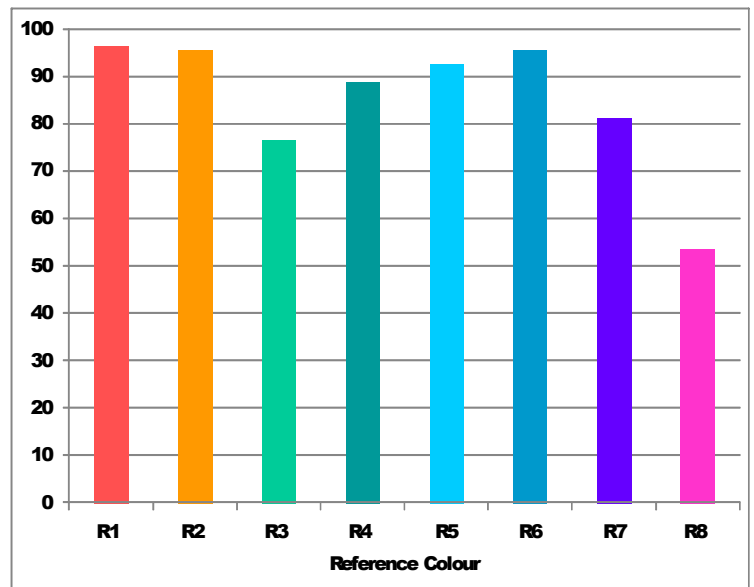
DIMMING CONDITIONS

Sylvania CMI lamps can be dimmed with negligible impact on performance creating the potential for for flexible light levels and reduced energy consumption. Dimming is supported on electronic square wave ballasts and magnetic systems that can maintain the open circuit voltage. Square wave operation is recommended. Dimming causes a reduction of light and some colour change.

We advise to start the lamps at full power and to hold this for 15 minutes before reducing the power. To avoid extinguishing the power should be adjusted gradually taking a few minutes to reach the final dimming condition. Square wave dimming down to 65% of the rated power will have negligible impact on performance, dimming down to 50% of the rated power can affect lumen maintenance and colour appearance.

Dimming by means of voltage on magnetic systems is not advised as this increases the chance of lamp extinguishing. Dimming by phase-cutting on magnetic systems is not allowed. Instant dimming on magnetic systems by adding an impedance is suggested down to 70% of the rated power but the average life can be reduced.

90 % power=90 % rated lumens
70% power=60 % rated lumens
50% power=45 % rated lumens

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