


Notes:

1. Dimension per ANSI Y14.8
2. Reference number: SGL-1000T4U/XL
3. Type: Non-Ozone producing
3. Quartz sleeve : OH ≤ 5ppm, GE219 or equivalent
4. Filament cold resistance : TBD
5. Lamp voltage : 38V
Lamp Current : 1.8A
Lamp Power : 68W
6. Intensity : 320μW/cm²
7. Align filament to lamp base as shown

Preliminary

Dimensions are in mm tolerance (Unless otherwise specified)	 1246 E. Lexington Ave. Pomona, CA 91766			
	UV Lamp, double jacket, Amalgam, 1.8A, Non-Ozone (quartz lamp)			
Proprietary & Confidential	SIZE	FSCM NO	DWG NO	REV
	A		UVAJ-500T6-01	2
	SCALE	N/A	SHEET	1 OF 2

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1.0 Lamp manufacturing process and filament activation procedure


Description		Unit
Gas mixture	Argon	30.0%
	Neon	70.0%
	Xenon	0%
Fill pressure		350 - 400 Pa
Mercury in getter ring		65mg
Filament P/N		
Filament cold resistant		2.0Ω - 2.3Ω
Quartz Tube		GE219
Emission coating	CasrW06 + (nitro-celrose & acid buchile)	
Flashing	3 times/760Torr	
Furness temperature	450 °C	60 minutes
Lamp Aging	Horizontal	2 hours

Filament activation - SO lamp (Preheat-filament)

	Description	Time	Temp
1	Heat filament - 400mA	3 min	
2	Heat filament - 600mA	3 min	
3	Heat filament -700mA	3 min	800°K
4	Heat filament -800mA	5 min	900°K
5	2 Gases flashing, 1 min, 760 Torr		
7	Heat filament -950mA	3 min	1200°K
8	2 Gases flashing, 1 min, 760 Torr		
9	Heat filament -1000mA	3 min	1300°K
10	Heat filament -1200mA	0.2 sec	1300°K
11	2 Gases flashing, 1 min, 760 Torr		

2.0 Lamp test and inspection procedure

- A) Measure cold resistance – 100%
- B) Check leakage at lamp completion and after 4 weeks storage - 100%
- C) Lamp aging, 2 hours – 100%
- D) Lamp aging, 20 hours – 20 samples
- E) Lamp intensity – 100%

Dimensions are in mm tolerance (Unless otherwise specified)			1246 E. Lexington Ave. Pomona, CA 91766	
	UV Lamp,U-shape, standard output, 360mA, Non-Ozone (quartz lamp)			
Proprietary & Confidential	SIZE A	FSCM NO	DWG NO UV500PLL-01	REV A
	SCALE	N/A	SHEET	2 OF 2

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