



The new standard in light



HPS-400W



PERFORMANCE DATA

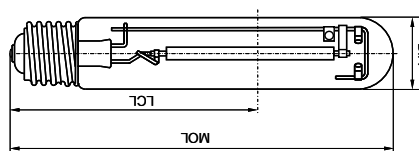
Initial lumens at rated watts after 100 hours operation	56500	Lm
Rated average life	32000	H
Warm up time (90% lumens)	4	Min
Correlated color temperature	2100	K
CIE chromaticity	0.52,0.42	x,y
Color rendering index	20	
Operating Position	U	μmol/s

ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	105	V
Nominal lamp current	4.6	A

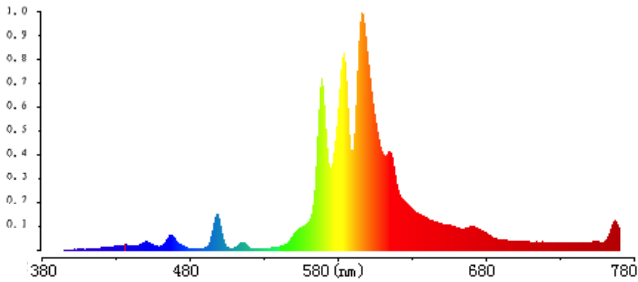
PHYSICAL DESCRIPTION

Maximum overall length	292	mm
Light center length	175	mm
MaxBulb diameter	48	mm
Base to bulb eccentricity (max)	3	degrees
Maximum bulb temperature	400	°C
Bulb designation	T46	
Bulb material	Borosilicate(Hard Glass)	
Arc tube material	PCA	
Bulb finish	Clear	
Base designation	E40	

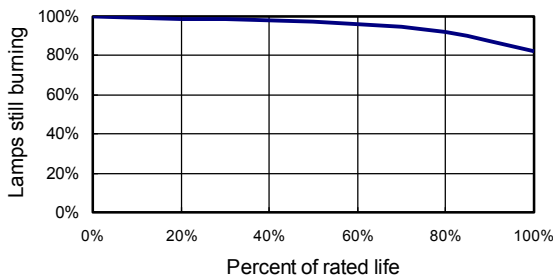




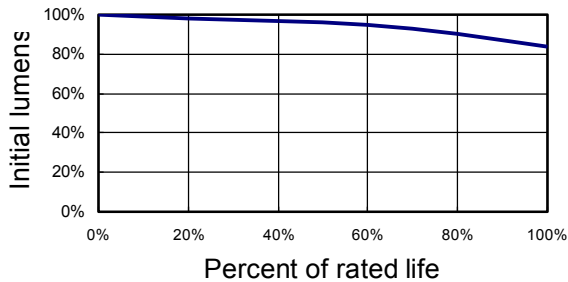
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Typical lamp mortality



Typical lumen maintenance



LAMP TEST REPORT

Lamp NO.: LUMEN-KING NGH-G400T46-190309-1

DATE : 2019-3-9 8:49:23

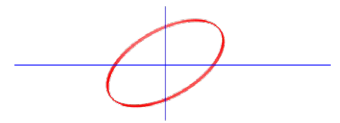
Spectroradiometric Parameters:

1. Luminous Flux: $\Phi = 61192.0$ (lm)
2. Correlated Color Temperature = 2114 (K)
3. Chromaticity Coordinate: $x = .5206$ $y = .4234$ $u = .2958$ $v = .3609$
4. Rendering Index: $R_a = 25.9$
5. CIE excitation purity: $P_e = .83$ Dominant wavelength= 587 (nm)
6. Peak wavelength: $\lambda_p = 569$ (nm) $\lambda_{ph1} = 565$ (nm) $\lambda_{phr} = 572.7$ (nm)
7. Luminous Efficiency: $\Phi/W = 144.7$ (lm/W)
8. Rendering Index: $R_1 - R_{14}$: 16 64 63 -3 13 49 42 -37 -180 39 -32 20 21 76
9. Red Color Ratio: $R = .18$ RD F2700 Color Difference = 37.3 SDCM

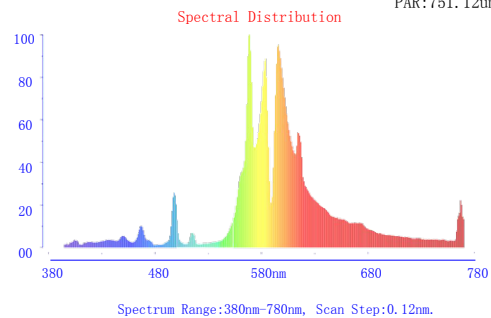
Electric Parameters:

1. Voltage: $OV = 113.9$ (V)
2. Current: $OC = 4.242$ (A)
3. Wattage: $P = 423$ (W)
4. Power Factor: $PF = .88$

Color Difference ellipse (6SDCM):



PAR: 751.12 $\mu\text{mol/s}$



测试仪器: DONAN-200型快速光谱仪, 仪器制作: 南京东南大学电子工程系 TEL: 025-57713928 13057503848