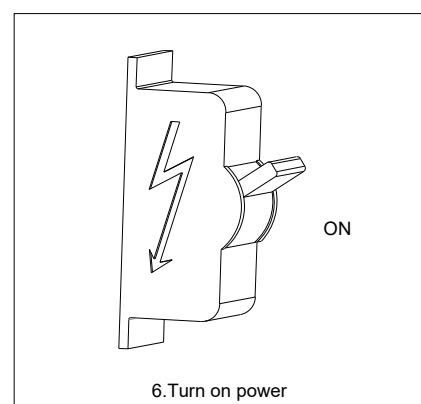
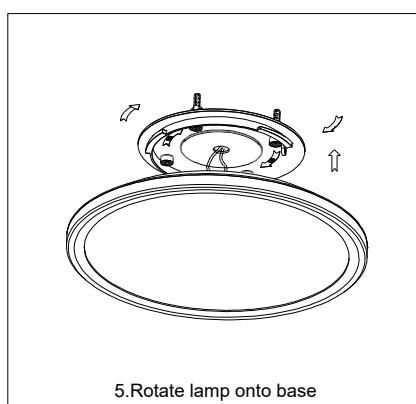
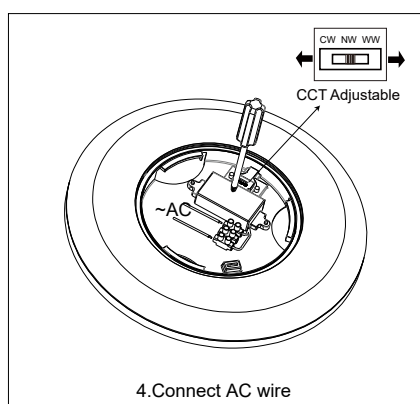
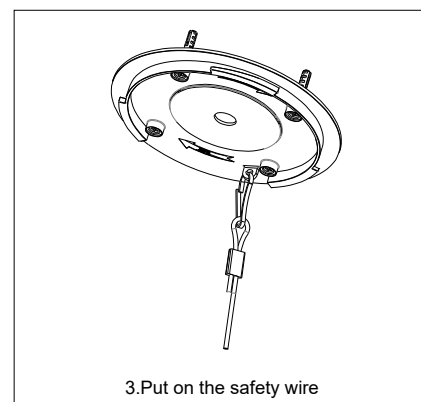
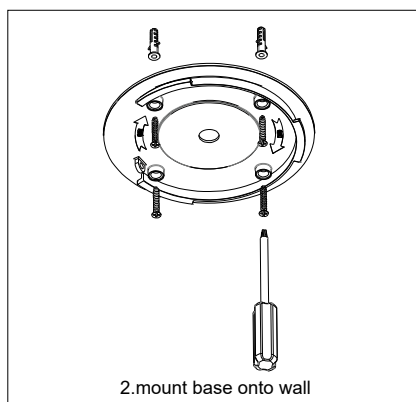
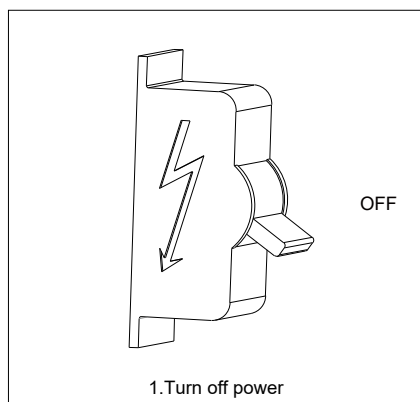
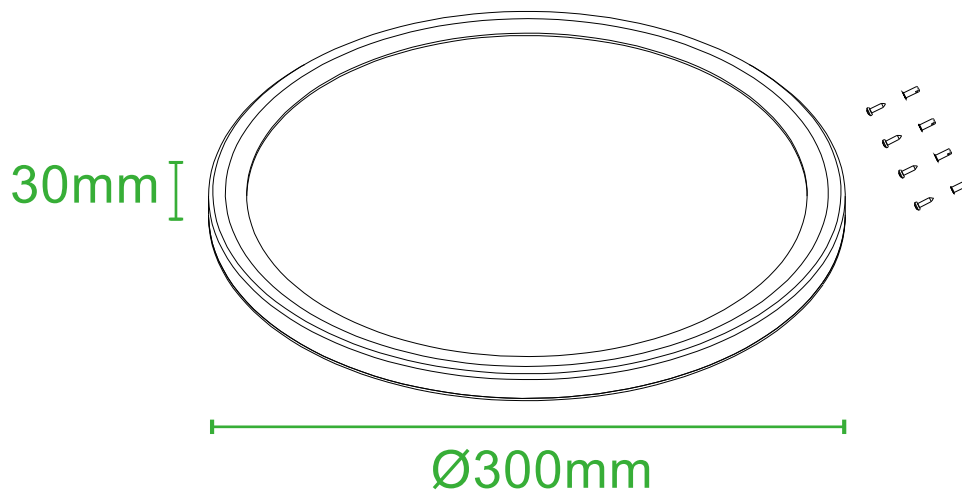


LED CLEING LAMP CCT SPECIFICATION



TECHNICAL SPECIFICATION	
MODEL	HL18LED
VOLTAGE	220-240VAC
FREQUENCY	50/60Hz
LUMINOUS FLUX	3000K-1620LM 4000K/6500K-1800LM
LED CHIP	SMD2835
LED QTY	192PCS
COLOR TEMP.	CCT DIAL SWITCH 3000K-4000K-6500K
IP RATING	IP54
BEAM ANGLE	120°
WORKING TEMP.	-20℃ - +45℃
WORKING HUMIDITY	90%
PRODUCT DIMENSION	300*30mm
MATERIAL	PMMA(LGP)
FRAME COLOR	White / Silver
NET WEIGHT	0.67kgs

LED CEILING LAMP CCT SPECIFICATION



LED CEILING LAMP CCT SPECIFICATION



- Ultra-slim design, more elegant and beautiful. Can choose frame color: white, black, silver and golden.
- With internal power supply, no dark space on the cover.
- High quality material, using PMMA light guide plate to get high light transmittance.
- Uniform and high brightness up to 100lm/w, 1800lm.
- Lower power consumption, high intensity, low lumen attenuation.
- CCT dial switch design, Warm white, Nature white and Cool white for option.
- Rotary base design, easy for installation.
- IP54 lamp, compared with IP20 ceiling lamp, it is more widely used.
- Optimized heat sink design to ensure an excellent heat dissipation system.
- Widely application: living room, kitchen, bathroom, shop store and other indoor places.

Optical & Electrical Test Report 3000K

Lightsource Test Report

Product Information

Product Type: HL18LED 3000K

Product Number: 1

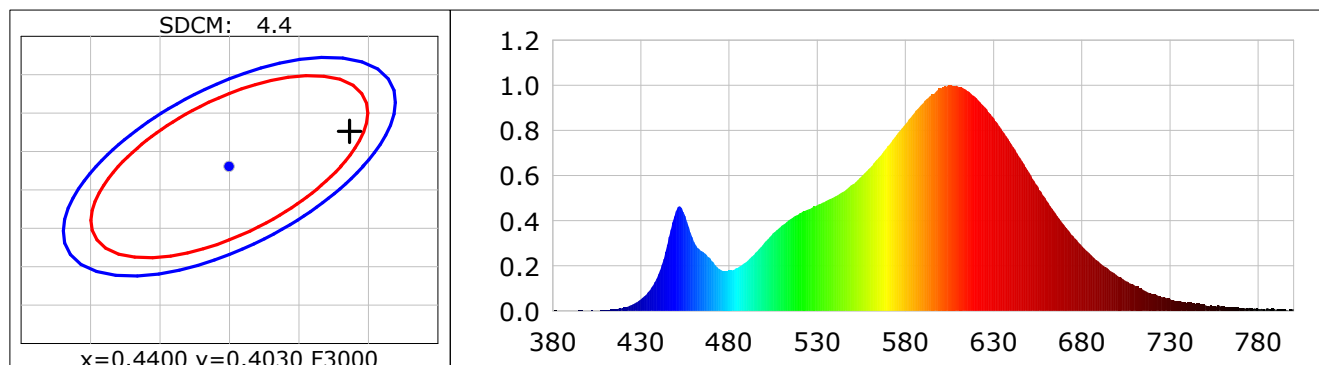
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4486$ $y=0.4076$ $u(u')=0.2566$ $v=0.3497$ $v'=0.5245$
CCT: $T_c=2841K$ ($duv=-0.00005$) Color Ratio: $R=0.242$ $G=0.733$ $B=0.024$
Peak Wavelength: 605.8nm Half Bandwidth: 120.9nm
Dominant Wavelength: 583.5nm Color Purity: 0.570
Central Wave: 598.8nm Gravity Wave: 601.2nm
CRI: $R_a=83.7$ TM30: $R_f=86$, $R_g=96$
GAI: $GAI_BB_8=93.6$, $GAI_BB_15=101.0$, $GAI_EES=49.5$

R1 =82	R2 =92	R3 =96	R4 =82	R5 =83	R6 =92	R7 =82	R8 =60
R9 =12	R10=83	R11=82	R12=76	R13=85	R14=99	R15=75	

Color Quality Scale: $Q_a=83.7$, $Q_f=85.6$, $Q_p=84.8$, $Q_g=91.2$

Q1 =79	Q2 =94	Q3 =85	Q4 =82	Q5 =85	Q6 =85	Q7 =85	Q8 =87
Q9 =95	Q10=91	Q11=88	Q12=85	Q13=84	Q14=73	Q15=75	



Photometric Parameters

Luminous Flux: 1474.5 lm Efficiency: 85.23 lm/W Radiant Power: 4.518 W
Total mains efficacy: 85.23 lm/W Energy Efficiency Class: F (EU 2019/2015)

Electric Parameters

Voltage: 230.10V Current: 0.1260A Power: 17.30W
Power Factor: 0.5930 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Sec ALIC.: 1.0000 Photometric Condition: Sphere diameter: 1.50m, 4 π
Max of Signal: 45544 (2812) CCD Integration Time: 319.58 ms

Optical & Electrical Test Report 4000K

Lightsource Test Report

Product Information

Product Type: HL18LED 4000K

Product Number: 1

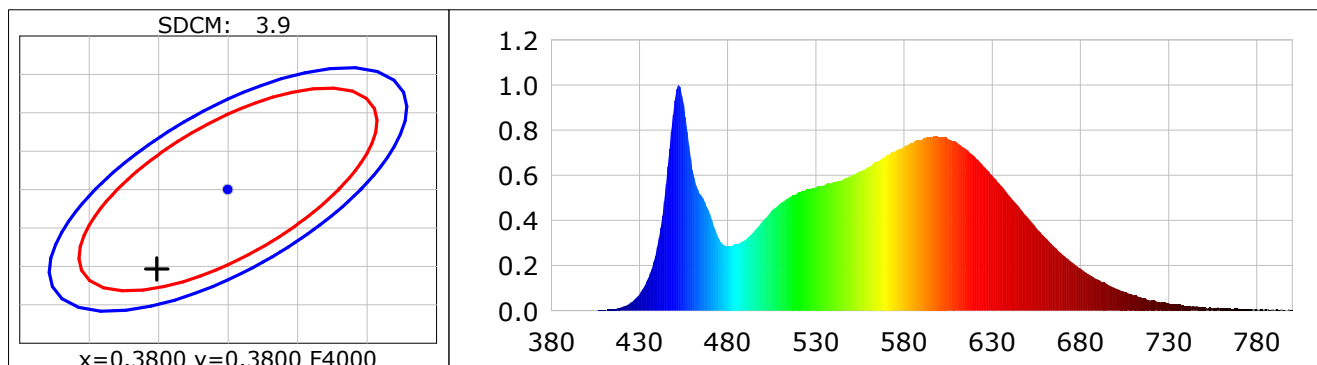
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3749$ $y=0.3696$ $u(u')=0.2243$ $v=0.3317$ $v'=0.4976$
 CCT: $T_c=4105K$ ($duv=-0.00171$) Color Ratio: $R=0.187$ $G=0.771$ $B=0.042$
 Peak Wavelength: 452.2nm Half Bandwidth: 21.8nm
 Dominant Wavelength: 579.7nm Color Purity: 0.234
 Central Wave: 455.1nm Gravity Wave: 454.1nm
 CRI: $R_a=86.5$ TM30: $R_f=85$, $R_g=95$
 GAI: $GAI_BB_8=95.1$, $GAI_BB_15=101.7$, $GAI_EES=76.5$

R1 =86	R2 =94	R3 =96	R4 =85	R5 =86	R6 =90	R7 =86	R8 =69
R9 =23	R10=84	R11=85	R12=66	R13=88	R14=99	R15=81	

Color Quality Scale: $Q_a=85.2$, $Q_f=85.3$, $Q_p=85.0$, $Q_g=93.6$

Q1 =83	Q2 =98	Q3 =83	Q4 =79	Q5 =83	Q6 =86	Q7 =89	Q8 =91
Q9 =98	Q10=92	Q11=88	Q12=86	Q13=86	Q14=77	Q15=79	



Photometric Parameters

Luminous Flux: 1670.5 lm Efficiency: 100.03 lm/W Radiant Power: 5.182 W
 Total mains efficacy: 100.03 lm/W Energy Efficiency Class: F (EU 2019/2015)

Electric Parameters

Voltage: 230.10V Current: 0.1230A Power: 16.70W
 Power Factor: 0.5900 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 0 Sec ALC.: 1.0000 Photometric Condition: Sphere diameter: 1.50m, 4T
 Max of Signal: 45902 (2702) CCD Integration Time: 217.89 ms

Optical & Electrical Test Report 6500K

Lightsource Test Report

Product Information

Product Type: HL18LED 6500K

Product Number: 1

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3175$ $y=0.3427$ $u(u')=0.1961$ $v=0.3174$ $v'=0.4762$

CCT: $T_c=6182K$ ($duv=0.00774$)

Color Ratio: $R=0.131$ $G=0.813$ $B=0.055$

Peak Wavelength: 451.0nm

Half Bandwidth: 20.5nm

Dominant Wavelength: 499.5nm

Color Purity: 0.049

Central Wave: 452.5nm

Gravity Wave: 452.0nm

CRI: $R_a=81.5$

TM30: $R_f=83$, $R_g=93$

GAI: $GAI_BB_8=86.3$, $GAI_BB_15=92.0$, $GAI_EES=82.9$

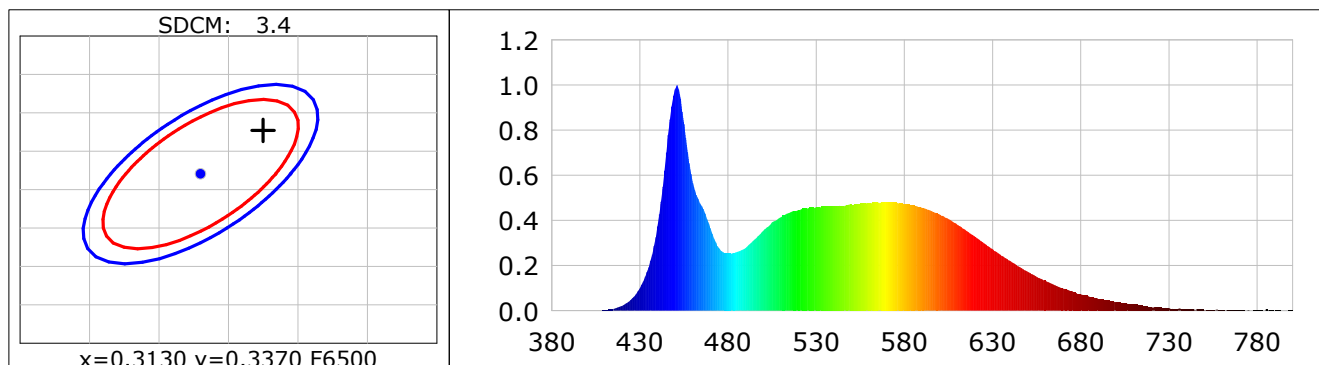
$R1=78$ $R2=87$ $R3=93$ $R4=80$ $R5=80$ $R6=83$ $R7=87$ $R8=64$

$R9=-9$ $R10=70$ $R11=79$ $R12=57$ $R13=81$ $R14=97$ $R15=72$

Color Quality Scale: $Q_a=80.9$, $Q_f=81.3$, $Q_p=79.8$, $Q_g=89.2$

$Q1=81$ $Q2=98$ $Q3=80$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=84$ $Q8=89$

$Q9=97$ $Q10=89$ $Q11=85$ $Q12=83$ $Q13=82$ $Q14=67$ $Q15=72$



Photometric Parameters

Luminous Flux: 1662.6 lm

Efficiency: 92.88 lm/W

Radiant Power: 5.170 W

Total mains efficacy: 92.88 lm/W

Energy Efficiency Class: F (EU 2019/2015)

Electric Parameters

Voltage: 230.10V

Current: 0.1280A

Power: 17.90W

Power Factor: 0.5990

Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 Sec ALC.: 1.0000

Max of Signal: 50083 (2656)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4 π

CCD Integration Time: 170.00 ms