

# LED Ceiling Light D400\_CCT Selectable

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## 1. Specification:

### A. General Data

<b>Model</b>	LED Ceiling Light D400-CCT Selectable
<b>P/N (White frame)</b>	DELL-CLD40242NWB31
<b>P/N (Black frame)</b>	DELL-CLD40242BWB31
<b>Rated Voltage</b>	230 VAC
<b>Frequency</b>	50 Hz
<b>Rated Wattage</b>	24 W
<b>Deviation Tolerance of Wattage</b>	±10 %
<b>Displacement factor (cos φ1)*</b>	≥ 0.9
<b>Rated Current</b>	0.135A
<b>Maximum Input Current</b>	0.149A
<b>Start On</b>	<0.5S
<b>Warm up time</b>	<1S
<b>Dimmable</b>	CCT 3 IN1 3000K-4000K-6500K
<b>Beam Angle</b>	110°
<b>Peak luminous intensity (cd)</b>	Non-directional
<b>R9 CRI</b>	>2
<b>Survival factor</b>	90%
<b>Safety requirements</b>	CE
<b>Stroboscopic effect metric (SVM) ≤ 0.9</b>	<0.05

<b>Flicker metric (PstLM)</b> ≤ 1	<0.02
<b>Energy Efficiency Class(EEC)</b>	F
<b>Applicable Environments</b>	IP20
<b>Exchangeable LED Module</b>	NO
<b>Photobiological Group</b>	RG 0
<b>Safety class</b>	Class II

\* Displacement factor tolerance +/- 10%

### B. Light Data

<b>Model</b>	LED Ceiling Light D400-CCT Selectable
<b>Color Temperature (CCT)</b>	3000K-4000K-6500K
<b>Lumen Output*</b> ( $\varphi$ 120°)	2500 lm
<b>Lumen Output*</b> ( $\varphi$ Total)	2500 lm
<b>Directional lamp</b>	No
<b>Beam angle correspondence*</b>	Sphere
<b>Color Rendering Index*</b>	83
<b>Efficacy ( Useful )*</b>	104.2 lm/W
<b>Efficacy ( Total )*</b>	103.1 lm/W
<b>Color Consistency**</b>	6 Step MacAdam Ellipse (6 SDCM)

\* tolerance +/- 10%

\*\* 3000K center point (0.43387, 0.40319) ; 4000K center point (0.38177, 0.37959) ; 6500K center point (0.31230, 0.32825)

★ Sphere : non-directional · Wide cone : Beam angle  $\geq 90^\circ$  ( $\Phi$  120°, in a 120° cone) · Narrow cone : Beam angle  $< 90^\circ$  ( $\Phi$  90°, in a 90° cone)

### C. Lifetime

(Supplied Voltage: AC 230V ; Ambient Temperature: 25°C)

<b>Lumen Maintenance Factor</b>	70% of the rated lifetime
<b>Rated Lifetime – L<sub>70B50</sub></b>	15,000 hrs
<b>Lumen Maintenance factor</b>	93.1%

## D. Temperature Operation

Normal operation temperature	-20°C ~ 40°C
Relative Humidity	10% ~ 90%

## E. Geometric Data

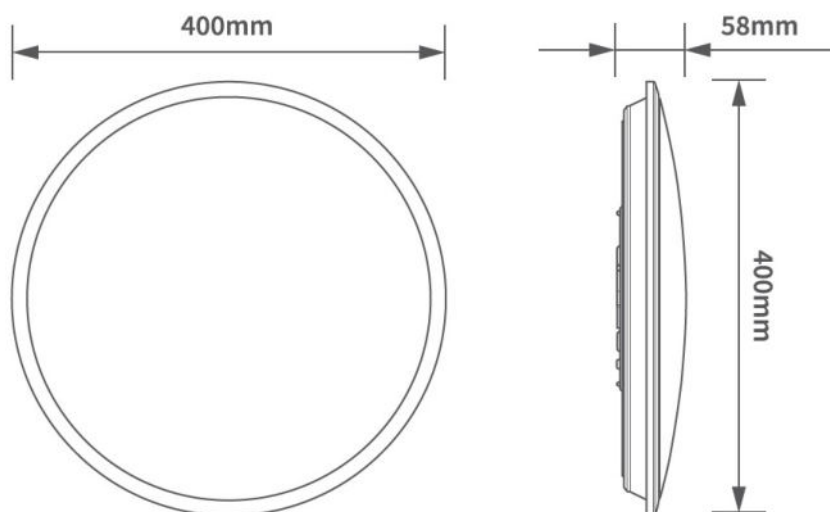
Model	LED Ceiling Light D400-CCT Selectable
Maximum diameter	400 ± 2 mm
Maximum overall thickness	58 ± 1 mm
Mass	830 g± 60g

## F. Environmental relevant materials

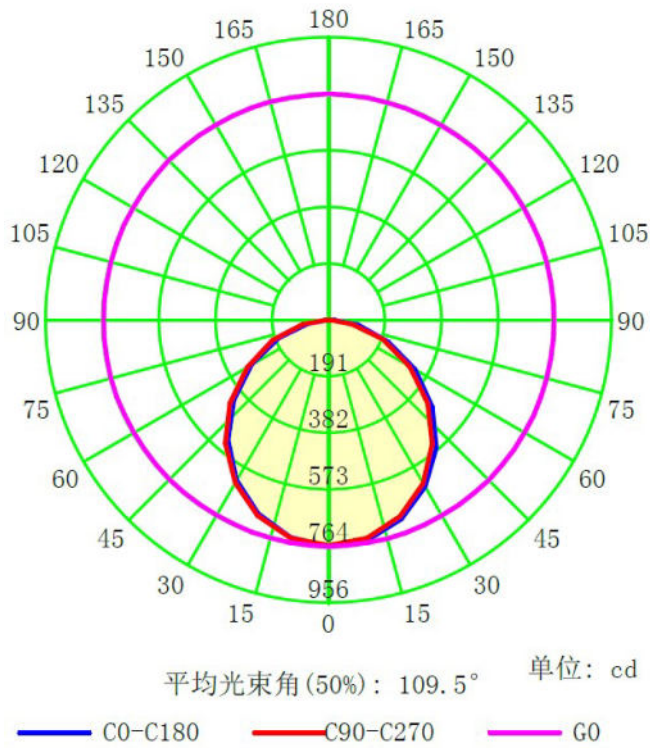
Mercury (Hg)	Comply with RoHS Directive 2011/65/EU
Lead (Pb)	
Cadmium(Cd)	
Hexavalent Chromium(Cr6+)	
Polybrominated Biphenyls(PBBs)	
Polybrominated Diphenyl Ethers(PBDEs)	
Bis (2-ethylhexyl) phthalate(DEHP)	
Butyl benzyl phthalate(BBP)	
Dibutyl phthalate(DBP)	
Diisobutyl phthalate(DIBP)	

## 2. Outline Drawing

Unit : mm

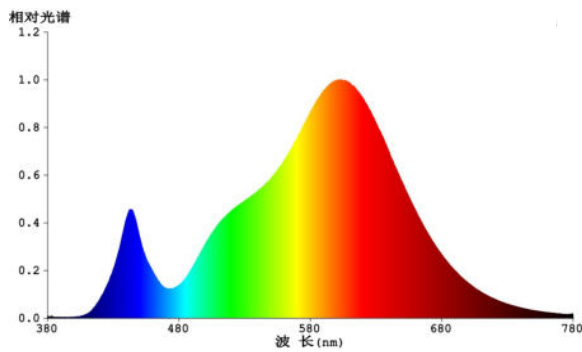


**3. Light Distribution Curve**

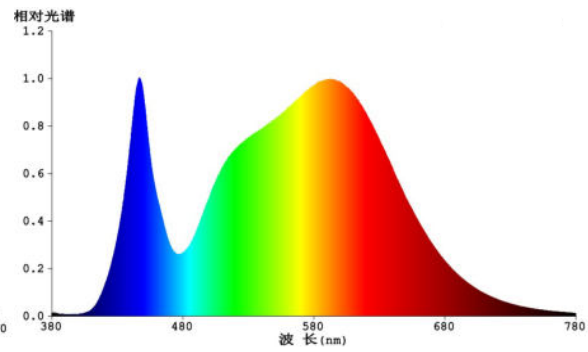


**4. Spectrum Distribution**

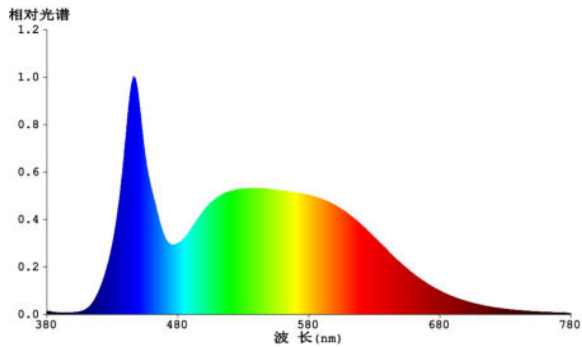
● 3000K Color Temperature



● 4000K Color Temperature

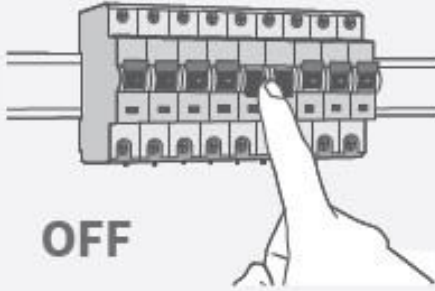


● 6500K Color Temperature



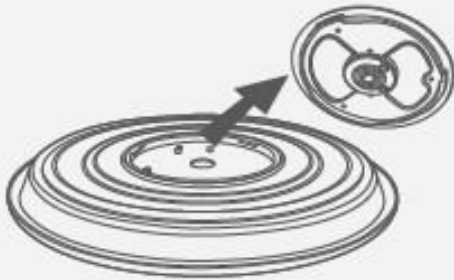
**5. Installation Instructions**

(1) Disconnect power supply.



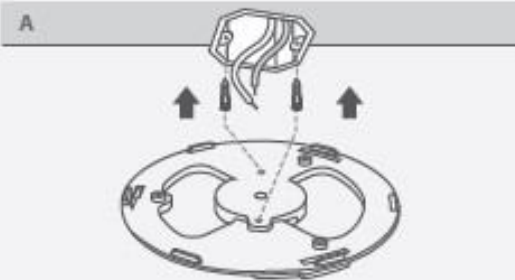
**OFF**

(2) Open packaging, get the ceiling light, and separate the base from the Luminaire body.

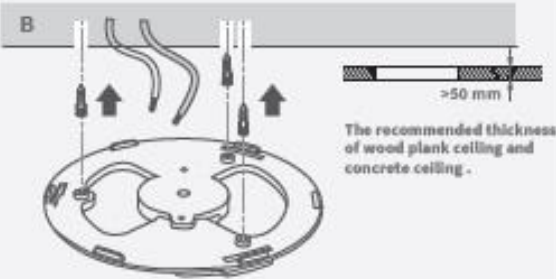


(3) Install the base

**A. For Ceiling Junction Box**  
Fix the base onto the ceiling junction box by using a self-tapping screw and make sure the base is fixed securely.



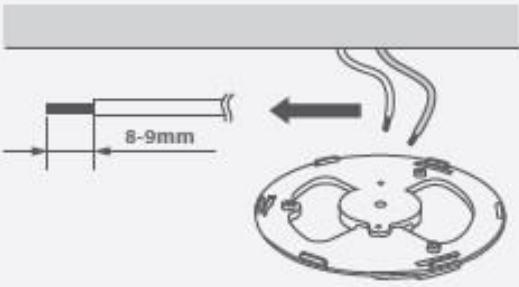
**B. Without Ceiling Junction Box**  
Make three  $L \geq 25\text{mm}$  installation holes. Place the wall anchor in the installation hole, then fix the base onto the ceiling by using a self-tapping screw and make sure the base is fixed securely.



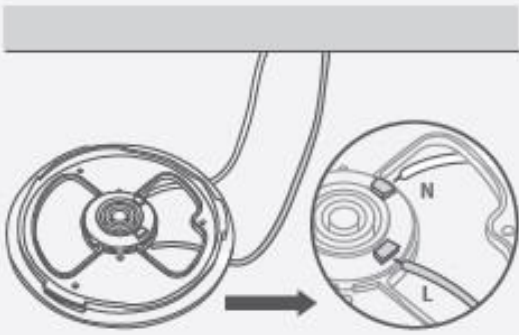
The recommended thickness of wood plank ceiling and concrete ceiling.

Applied for the ceiling installation of light weight ceiling, wood plank ceiling, or concrete ceiling.

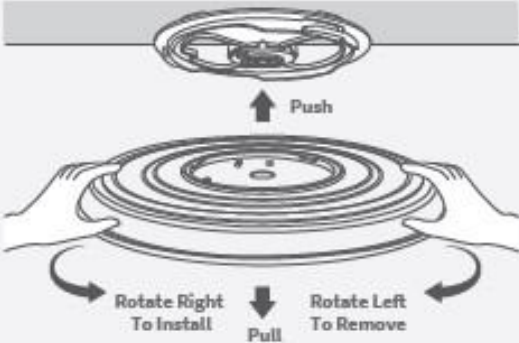
(4) According to the requirements of the following scheme, it is necessary to remove isolation from the wire on 8-9mm.



(5) Press the pink button and insert a cord into the terminal block, then make sure the reliability of connection.



(6) Hold the lamp body to align and fix in the base. Rotate the lamp body to the left and right to remove and install.




Push

Rotate Right To Install

Pull

Rotate Left To Remove

(7) Accessories:  
Including 4 pcs of self-tapping screws M3.5 x 35mm and 4 pcs of wall anchors.



Self-tapping screw × 4

Wall anchor × 4

## **6. Warnings**

- Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
- Before opening the package, please check if there's damage or defect during transportation, if damage occurs, please don't use it and inform your supplier immediately.
- Please do not attempt to use a damaged product.
- The product should be installed, dismantled and maintained by a qualified electrician; Suppliers don't take charge of any problems or damages that occur due to mishandling such as an operation not permitted in this manual.
- Choose an install place where can withstand 10 times the weight of the product to ensure a solid installation.
- Wipe the veil with soft cloth dipped a little neutral detergent, be sure not to use any sandpaper, polishing powder or alcohol, gasoline and so on liquor.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

## **7. Cautions**

Only to apply in dry and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space). Not intended for use with emergency light fixtures for exit lights.

## **8. Notes**

All characteristics are estimated at room temperature (25°C), free air burning, base up burning position and at rated voltage. In view of the complex manufacturing process for light above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technic individual products may vary from the typical values.

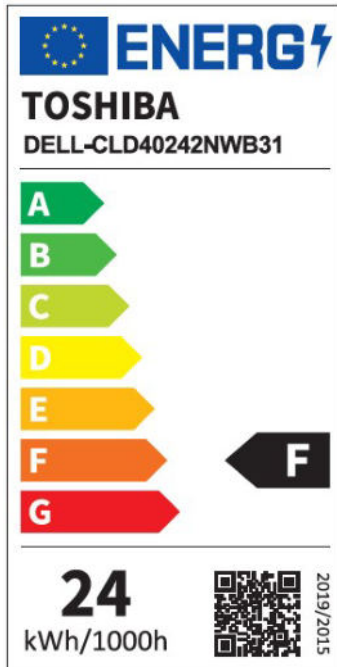
**9. Logistic information**

<b>Model</b>	CCT Selectable D400 24W
<b>Pieces per pack</b>	1
<b>EAN code on pack (White frame)</b>	4711112388165
<b>EAN code on pack (Black frame)</b>	4711112388172
<b>Size of pack</b>	40.3 x 6.8 x 40.2 cm
<b>Weight per pack (G.W)</b>	1.09 kg
<b>Packs per inner box</b>	N/A
<b>EAN code on inner box</b>	N/A
<b>ITF code on inner box</b>	N/A
<b>Size of inner box</b>	N/A
<b>Weight per inner box(G.W)</b>	N/A
<b>Packs per outer box</b>	6
<b>EAN code on outer box</b>	N/A
<b>ITF code on outer box (White frame)</b>	14711112388162
<b>ITF code on outer box (Black frame)</b>	14711112388179
<b>Size of outer box</b>	43 x 43 x 43 cm
<b>Weight per outer box(G.W)</b>	7.5 Kg

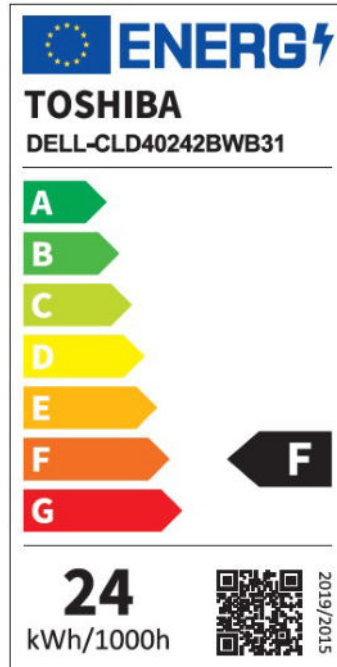


**10. ERP Label**

**White frame**



**Black frame**





## 11. Conformity

<b>2014/35/EU; Low Voltage Directive</b>	EN 60598-2-1:2021 ; EN 60598-1: 2021+AMD11:2022
<b>2014/30/EU; EMC Directive</b>	EN IEC 55015: 2019+A11: 2020 ; EN61547:2009 ; EN IEC 61000-3-2:2019+A1:2021 ; EN 61000-3-3:2013+A1:2019+A2:2021
<b>2009/125/EC; ErP Directive</b>	(EU) 2019/2015 、 (EU) 2019/2020 、 (EU) 2021/340 、 (EU) 2021/341
<b>2011/65/EU+(EU)2015/863; RoHS Directive</b>	EN 50581: 2012

## 12. Applicable countries

Albania ,Austria , Belgium , Bulgaria , Croatia , Cyprus , Czech , Denmark , Estonia , Finland , France , Georgia  
Germany ,Greece , Iceland , Ireland , Italy , Luxembourg , Malta , Morocco , Netherland , Norway , Portugal  
Romania ,Serbia , Spain , Sweden , Switzerland , Tunisia ,U.K

Note : The requirement of each country will be reflected to the product specifications, when the products will be shipped to such country.

## 13. Manufacturer and Toshiba brand licensee

EPILEDS TECHNOLOGIES, INC.