

ORBEOS™ CDW-031 Handling Note



Opto Semiconductors

OSRAM

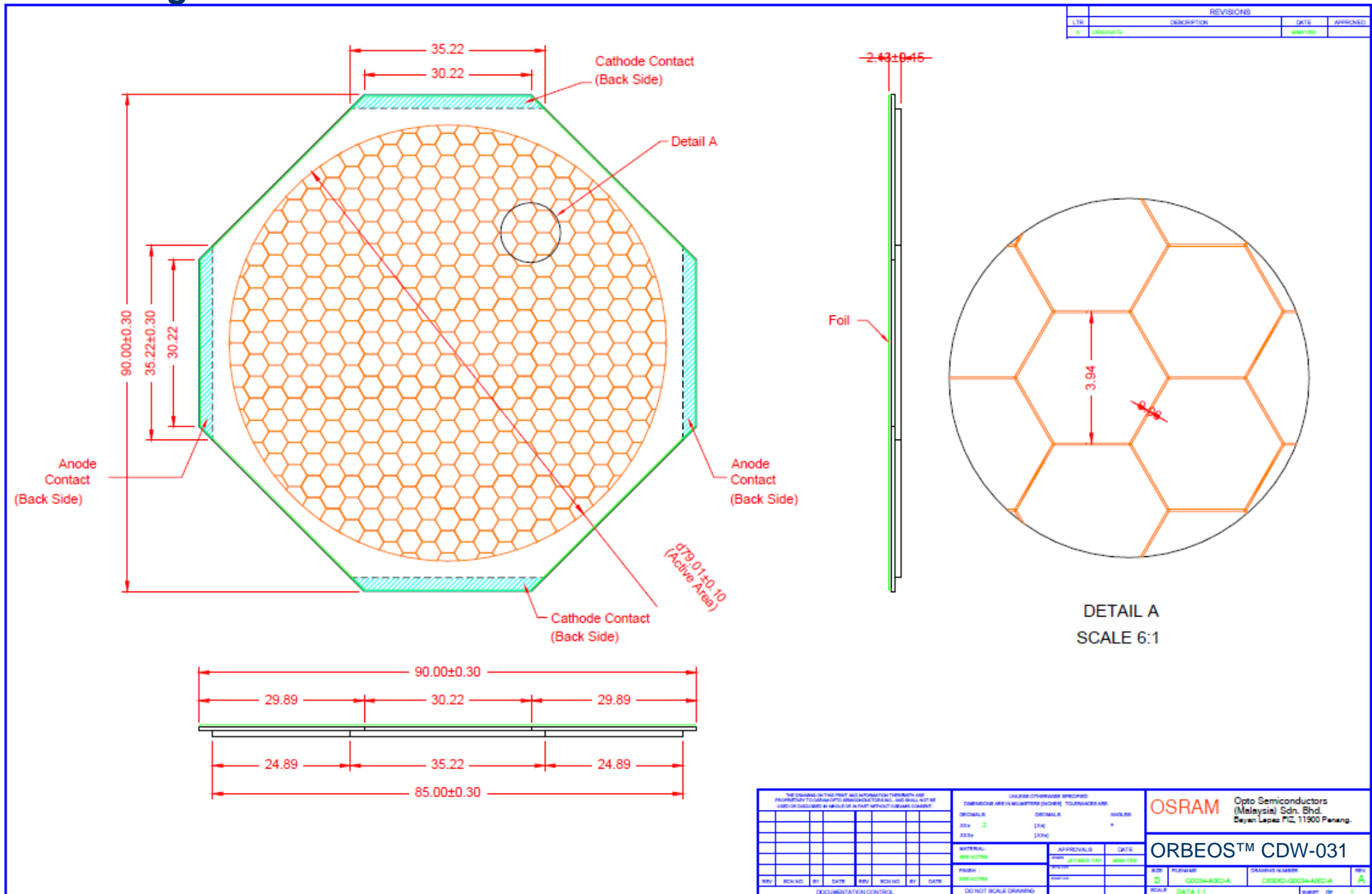
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4. Target specification

1. Drawing / mechanical information:





2. Handling Instructions (I)

First and foremost the OLED is glass.

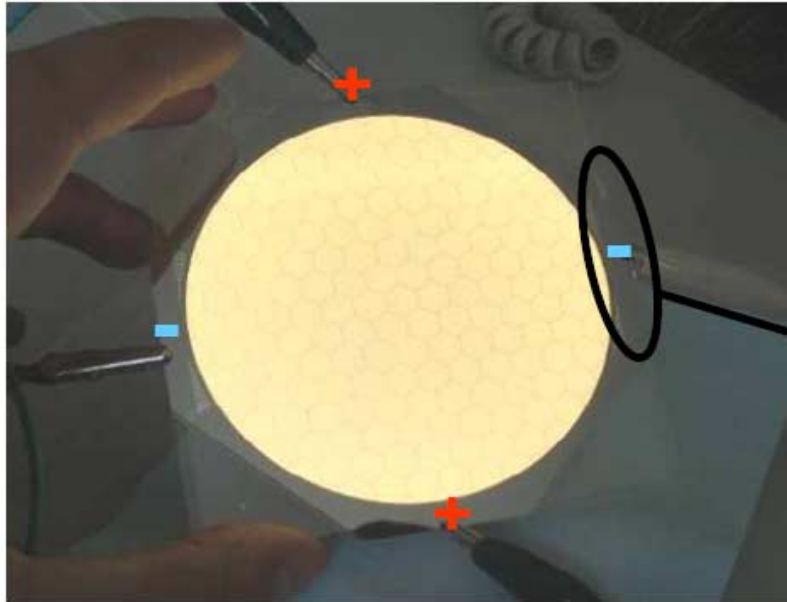
- Avoid mechanical stress such as shock and pressure on glass during handling, especially at the **center of the active area** and **the back of the device** (to avoid glass cracking, delamination and damage of the internal structure).
- For tiled OLED designs without a frame to protect the edges and corners of tile, exercise caution in order to avoid glass chipping and breakage.
- Finger cots and/or gloves are recommended when handling the OLED to avoid direct contact of glass or contacts with the bare skin. Oils from the skin may give problems in contacting and adhesion of contacting material.
- In case of module (flex connector or other type of connector), do not pull, press, or peel on the connector to glass contact area. This will cause module malfunctions with lift-up, peel-off of contacts.



2. Handling Instructions (II)

- Do not submerge the module into any kind of solvent or any other chemicals like acids, bases, and salts.
- Wipe off water drops immediately. Contact with water over a long period of time may cause damage to the film on the active side of the OLED, and an active OLED tile with water condensation on its surface will result in corrosion of metal traces.
- Handle the OLED surface (glass or film) with care as it is easily scratched. Avoid hard or sharp objects in contact with the tile surface. Do not rub hard on OLED surface.
- Avoid touching exposed contact pads with bare fingers. This will leave moisture on metal traces and cause corrosion.
- In case of OLED breakage, please avoid direct contact. Please do not swallow chips and materials.

3. Electrical Connection / Polarity



Contact ledges with comb structures indicate the cathode contacts (-)



Two of the contact ledges exhibit a visible comb structures on the emissive side. These comb structures denote the cathode contacts. The other two contact ledges are therefore the anode. To achieve the best luminance uniformity connect using all 4 contact ledges.

For interconnecting, please use a spring contact, zebra connector or ACF (Anisotropic conductive film) flex bonding.

4. Product Specification ORBEOS™ CDW-031



Front surface	Diffuse
Forward voltage [V]	DC 3.4
Operating current [mA]	186
Luminance [cd/m ²]	1000
Power consumption [W]	0.65
Luminous efficacy [lm/W]	23
Color temperature [K]	2800
Luminance maintenance L50 [h]	> 5000

All values represent typical performance
Further technical data see data sheet



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