

Visi-LED is the new acrylic resin formulated for light diffusers in fixtures utilising LED. It is satin in appearance and is suitable for use in commercial and retail lighting fixtures. Visi-LED is designed to reduce the pixilation of the LED, to increase the visual appearance of the luminaire, whilst offering good light transmittance.

It features:

- Raw transmittance 85%.
- Photometric performance shown below.
- Good glare control with well-engineered light fittings.
- Pleasant physical appearance with even luminance on the entire diffuser.

Properties

The special optical properties are obtained by incorporating spherical, high molecular weight polymer beads with a different refractive index into the acrylic matrix.

The difference in refractive indices changes the direction of light travel within the manufactured part. The net result is an even distribution of light exiting the part.

Quality

Visi-LED is manufactured from 100% acrylic resin (PMMA- polymethylmethacrylate). Flammability rating-UL94 HB.

Used under normal interior conditions, Visi-LED will perform satisfactorily for 20 years.

Dimensions

Standard Sheet Sizes (nominal)

1210mm x 660mm

1540mm x 660mm

Thickness

VL2 2.0mm

VL5 2.0mm and 2.5mm

VL8 3.0mm

VL10 3.4mm

Uses

Commercial offices and retail.

Other Visi-LED products

VL2 Matte finish

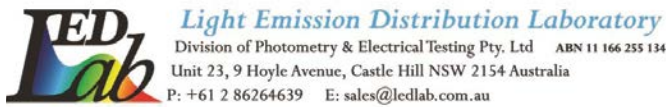
VL5 Fine rib

VL8 Microprism

VL10 Miniprism

Visi-LED VL-2 Photometric Details

- Photometric performance will vary depending on the physical opening size of the luminaire and the power of the LED installed.
- The photometric performance below, is typical only.
- Consult your preferred Lighting supplier for detailed photometrics using Visi-LED.



Catalogue No. Visi-LED VL2

Description

Indoor recessed LED troffer 1195x295. Optical opening of using YPP Visi-LED VL2 Satin Panel.

Optical System

YPP Visi-LED VL2 Panel.

Control Gear

Osram Optotronic Ote 50/220-240/1AO CS set at 800mA.

Results

When tested at an ambient of 25oC at a supply voltage of 240V, 50 Hz, the luminaire consumed 0.140 Amps and 30.39 Watts at a Power factor of 0.897.

That is, Lamp Circuit Power (LCP), which includes power supply losses, is 30.39 Watts.

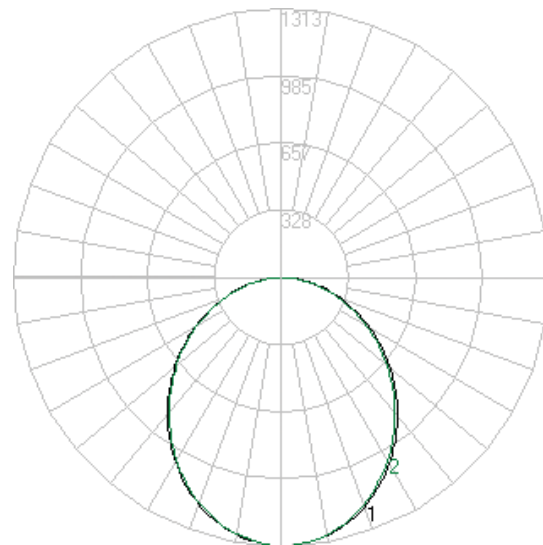
The Total Luminous Flux was measured as 3379 Lumens.

UGR

Unified Glare Rating with room reflectances of 70/30/10.

| Room size | UGR |
|------------|-----|
| 5m x 5m | 17 |
| 5m x 7.5m | 18 |
| 5m x 10m | 19 |
| 10m x 7.5m | 19 |

The UGR will vary depending on the luminaire design.



0-180 Vertical Plane
 0-270 Vertical Plane