

Last information update: May 2024

**Product configuration: ME93+9689.15**

ME93: iplan - 300 x 1200 mm h 26 mm - warm white LED - electronic control gear - general light optic  
9689.15: Adapter for installation in plasterboard false ceilings - Grey

**Product code**

ME93: iplan - 300 x 1200 mm h 26 mm - warm white LED - electronic control gear - general light optic **Attention! Code no longer in production**

**Technical description**

Direct emission recessed or ceiling-mounted luminaire designed to use warm white 3000K high colour rendering LEDs. The optical assembly consists of an anodised extruded frame, a methacrylate diffuser screen for general light emission and a painted sheet metal rear closing base. The LEDs are arranged inside the perimeter and the driver is housed in the product.

**Installation**

Recessed in plasterboard false ceilings (using accessory frame), in false ceilings with frame. Possibility of ceiling-mounting using kit to be ordered separately as an accessory

**Colour**

Grey (15)

**Weight (Kg)**

7.2

**Mounting**

ceiling pendant

**Wiring**

product complete with electronic components

Complies with EN60598-1 and pertinent regulations



IP20

IP43

On the visible part of the product once installed



pending

**Accessory code**

9689.15: Adapter for installation in plasterboard false ceilings - Grey

**Technical description**

Adapter for installation in plasterboard false ceilings

**Colour**

Aluminium (12)

**Notes**

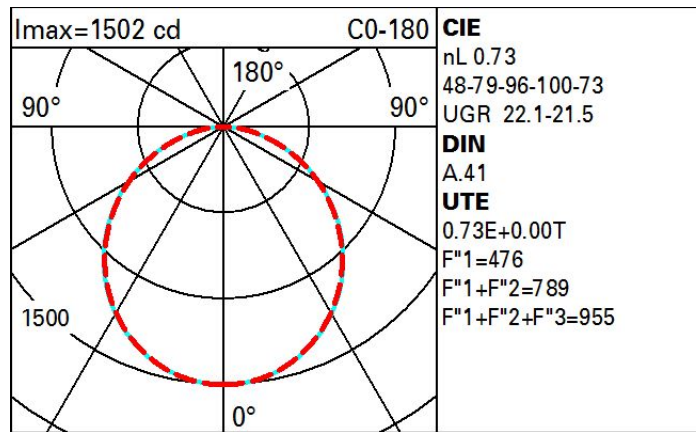
Only for 296x1196 rectangular versions

Complies with EN60598-1 and pertinent regulations

**Technical data**

|                                                    |       |                                       |                                 |
|----------------------------------------------------|-------|---------------------------------------|---------------------------------|
| Im system:                                         | 4198  | CRI (minimum):                        | 80                              |
| W system:                                          | 40.3  | Colour temperature [K]:               | 3000                            |
| Im source:                                         | 5750  | MacAdam Step:                         | 3                               |
| W source:                                          | 35    | Life Time LED 1:                      | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value):            | 104.2 | Lamp code:                            | LED                             |
| Im in emergency mode:                              | -     | Number of lamps for optical assembly: | 1                               |
| Total light flux at or above an angle of 90° [Lm]: | 0     | ZVEI Code:                            | LED                             |
| Light Output Ratio (L.O.R.) [%]:                   | 73    | Number of optical assemblies:         | 1                               |

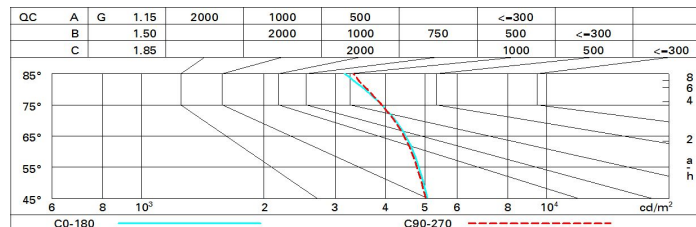
# Polar



## Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 48 | 40 | 35 | 31 | 39 | 34 | 34 | 29 | 39  |
| 1.0  | 53 | 46 | 40 | 36 | 44 | 40 | 39 | 34 | 47  |
| 1.5  | 60 | 54 | 50 | 46 | 53 | 49 | 48 | 43 | 60  |
| 2.0  | 65 | 60 | 56 | 53 | 59 | 55 | 54 | 50 | 68  |
| 2.5  | 68 | 64 | 60 | 57 | 62 | 59 | 58 | 54 | 74  |
| 3.0  | 69 | 66 | 63 | 60 | 64 | 62 | 61 | 57 | 78  |
| 4.0  | 72 | 69 | 67 | 64 | 67 | 65 | 64 | 61 | 83  |
| 5.0  | 73 | 71 | 69 | 67 | 69 | 67 | 66 | 63 | 86  |

## Luminance curve limit



# UGR diagram

| Corrected UGR values (at 5750 lm bare lamp luminous flux)        |     |                     |            |      |            |      |                   |      |      |      |      |
|------------------------------------------------------------------|-----|---------------------|------------|------|------------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling/cav<br>walls<br>work pl.<br>Room dim<br>x y |     | 0.70                | 0.70       | 0.50 | 0.50       | 0.30 | 0.70              | 0.70 | 0.50 | 0.50 | 0.30 |
|                                                                  |     | 0.50                | 0.30       | 0.50 | 0.30       | 0.30 | 0.50              | 0.30 | 0.50 | 0.30 | 0.30 |
|                                                                  |     | 0.20                | 0.20       | 0.20 | 0.20       | 0.20 | 0.20              | 0.20 | 0.20 | 0.20 | 0.20 |
|                                                                  |     | viewed<br>crosswise |            |      |            |      | viewed<br>endwise |      |      |      |      |
| 2H                                                               | 2H  | 18.2                | 19.3       | 18.5 | 19.6       | 19.9 | 18.1              | 19.3 | 18.4 | 19.5 | 19.8 |
|                                                                  | 3H  | 19.7                | 20.8       | 20.1 | 21.1       | 21.4 | 18.6              | 19.6 | 18.9 | 19.9 | 20.2 |
|                                                                  | 4H  | 20.3                | 21.3       | 20.7 | 21.6       | 21.9 | 18.8              | 19.8 | 19.1 | 20.1 | 20.4 |
|                                                                  | 6H  | 20.8                | 21.7       | 21.1 | 22.0       | 22.4 | 18.9              | 19.8 | 19.2 | 20.1 | 20.5 |
|                                                                  | 8H  | 20.9                | 21.8       | 21.3 | 22.2       | 22.5 | 18.9              | 19.7 | 19.3 | 20.1 | 20.5 |
|                                                                  | 12H | 21.0                | 21.9       | 21.4 | 22.2       | 22.6 | 18.8              | 19.7 | 19.2 | 20.0 | 20.4 |
| 4H                                                               | 2H  | 18.8                | 19.8       | 19.2 | 20.1       | 20.5 | 20.3              | 21.2 | 20.6 | 21.6 | 21.9 |
|                                                                  | 3H  | 20.6                | 21.4       | 21.0 | 21.8       | 22.1 | 20.9              | 21.8 | 21.3 | 22.1 | 22.5 |
|                                                                  | 4H  | 21.3                | 22.0       | 21.7 | 22.4       | 22.8 | 21.2              | 22.0 | 21.6 | 22.4 | 22.8 |
|                                                                  | 6H  | 21.9                | 22.5       | 22.3 | 22.9       | 23.4 | 21.5              | 22.1 | 21.9 | 22.5 | 23.0 |
|                                                                  | 8H  | 22.1                | 22.7       | 22.5 | 23.1       | 23.5 | 21.5              | 22.1 | 22.0 | 22.5 | 23.0 |
|                                                                  | 12H | 22.2                | 22.8       | 22.7 | 23.2       | 23.7 | 21.5              | 22.1 | 22.0 | 22.5 | 23.0 |
| 8H                                                               | 4H  | 21.5                | 22.2       | 22.0 | 22.6       | 23.0 | 22.0              | 22.6 | 22.5 | 23.1 | 23.5 |
|                                                                  | 6H  | 22.3                | 22.8       | 22.7 | 23.2       | 23.7 | 22.4              | 22.9 | 22.9 | 23.4 | 23.8 |
|                                                                  | 8H  | 22.5                | 23.0       | 23.0 | 23.5       | 24.0 | 22.5              | 23.0 | 23.0 | 23.5 | 24.0 |
|                                                                  | 12H | 22.8                | 23.2       | 23.3 | 23.6       | 24.2 | 22.6              | 23.0 | 23.1 | 23.5 | 24.0 |
| 12H                                                              | 4H  | 21.6                | 22.1       | 22.0 | 22.6       | 23.0 | 22.2              | 22.7 | 22.7 | 23.2 | 23.7 |
|                                                                  | 6H  | 22.3                | 22.8       | 22.8 | 23.2       | 23.7 | 22.6              | 23.0 | 23.1 | 23.5 | 24.0 |
|                                                                  | 8H  | 22.6                | 23.0       | 23.2 | 23.5       | 24.0 | 22.8              | 23.2 | 23.3 | 23.6 | 24.2 |
| Variations with the observer position at spacing:                |     |                     |            |      |            |      |                   |      |      |      |      |
| S =                                                              |     | 1.0H                | 0.1 / -0.1 |      | 0.1 / -0.1 |      |                   |      |      |      |      |
|                                                                  |     | 1.5H                | 0.3 / -0.4 |      | 0.3 / -0.3 |      |                   |      |      |      |      |
|                                                                  |     | 2.0H                | 0.4 / -0.5 |      | 0.4 / -0.5 |      |                   |      |      |      |      |