

# Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

**Supplier's name or trade mark:** ORION

**Supplier's address:** QC/LABOR, Oberlaaerstraße 284, 1230 Wien, AT

**Model identifier:** LM E14/4,5W i.m. (Illu/2700K/450lm)

## Type of light source:

|   |     |                                 |      |
|---|-----|---------------------------------|------|
| Lighting technology used:                           | LED | Non-directional or directional: | NDLS |
| Light source cap-type (or other electric interface) | E14 |                                 |      |
| Mains or non-mains:                                 | MLS | Connected light source (CLS):   | No   |
| Colour-tuneable light source:                       | No  | Envelope:                       | -    |
| High luminance light source:                        | No  |                                 |      |
| Anti-glare shield:                                  | No  | Dimmable:                       | Yes  |

## Product parameters

| Parameter  | Value                | Parameter  | Value   |
|--|----------------------|--|---|
| <b>General product parameters:</b>   |                      |  |   |
| Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer  | 5                    | Energy efficiency class  | F   |
| Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 450 in Sphere (360°) | Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set | 2 700   |
| On-mode power ( $P_{on}$ ), expressed in W   | 4,5                  | Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal   | 0,00  |
| Networked standby power ( $P_{net}$ ) for CLS, expressed in W and rounded to the second decimal  | -                    | Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set   | 80  |
| Outer dimensions without separate control gear, lighting control   | Height               | 78   | Spectral power distribution in the range 250 nm to 800 nm, at full-load |
|  | Width                | 45   |   |
|  | Depth                | 45   |   |
|  |                      |  | See image in last page  |

|   |      |                                       |                |
|---|------|---------------------------------------|----------------|
| parts and non-lighting control parts, if any (millimetre)   |      |                                       |                |
| Claim of equivalent power <sup>(a)</sup>  | Yes  | If yes, equivalent power (W)          | 39             |
|   |      | Chromaticity coordinates (x and y)    | 0,463<br>0,420 |
| <b>Parameters for LED and OLED light sources:</b>   |      |                                       |                |
| R9 colour rendering index value   | 6    | Survival factor                       | 0,90           |
| the lumen maintenance factor  | 0,94 |                                       |                |
| <b>Parameters for LED and OLED mains light sources:</b>   |      |                                       |                |
| displacement factor (cos $\phi_1$ )   | 0,50 | Colour consistency in McAdam ellipses | 6              |
| Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. | -(b) | If yes then replacement claim (W)     | -              |
| Flicker metric (Pst LM)   | 1,0  | Stroboscopic effect metric (SVM)      | 0,4            |

(a)-: not applicable;

(b)-: not applicable;

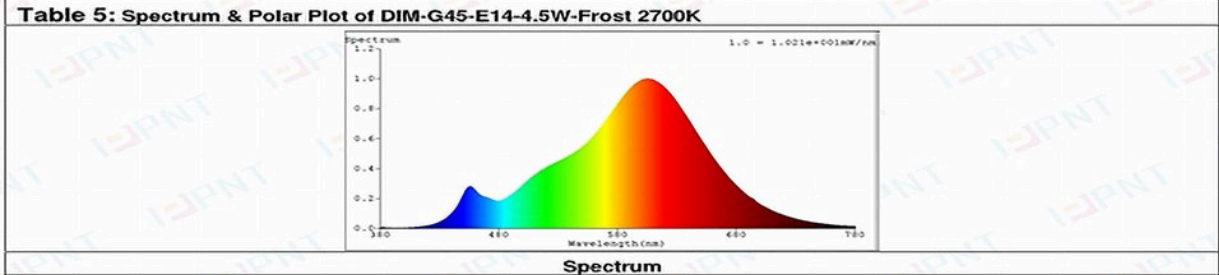
**Table 3 : DIM-G45-E14-4.5W-Frost 2700K**

| Sample No. | Initial Flux (lm) | 3600H Flux (lm) | $X_{LMF,MIN}\%$ at 3600H | Survival factor at 3600H | Measured beam angle (°) | Measured I <sub>max</sub> (cd) | Measured light output within $\pi$ sr |
|------------|-------------------|-----------------|--------------------------|--------------------------|-------------------------|--------------------------------|---------------------------------------|
| 1#         | 461.7             | 435.4           | 94.3%                    | Yes                      | -                       | -                              | -                                     |
| 2#         | 461.6             | 434.8           | 94.2%                    | Yes                      | -                       | -                              | -                                     |
| 3#         | 454.3             | 427.6           | 94.1%                    | Yes                      | -                       | -                              | -                                     |
| 4#         | 462.4             | 435.3           | 94.1%                    | Yes                      | -                       | -                              | -                                     |
| 5#         | 454.7             | 428.4           | 94.2%                    | Yes                      | -                       | -                              | -                                     |
| 6#         | 456.7             | 430.8           | 94.3%                    | Yes                      | -                       | -                              | -                                     |
| 7#         | 460.4             | 433.3           | 94.1%                    | Yes                      | -                       | -                              | -                                     |
| 8#         | 460.6             | 434.3           | 94.3%                    | Yes                      | -                       | -                              | -                                     |
| 9#         | 457.2             | 431.2           | 94.3%                    | Yes                      | -                       | -                              | -                                     |
| 10#        | 457.3             | 430.0           | 94.0%                    | Yes                      | -                       | -                              | -                                     |
| Average    | 458.7             | 432.1           | 94.2%                    | Yes                      | -                       | -                              | -                                     |
| Required   | --                | --              | ≥ 94%                    | ≥ 90%                    | -                       | -                              | -                                     |

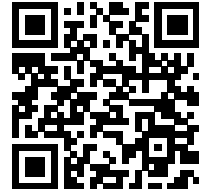
**Table 4 for model LED driver**

| Sample No. | Measured voltage(V) | Measured current (mA) | Input wattage (W) | Output wattage (W) | Energy efficiency | P <sub>no</sub> (W) | P <sub>sb</sub> (W) | P <sub>net</sub> (W) |
|------------|---------------------|-----------------------|-------------------|--------------------|-------------------|---------------------|---------------------|----------------------|
| 1#         | --                  | --                    | --                | --                 | --                | --                  | --                  | --                   |
| 2#         | --                  | --                    | --                | --                 | --                | --                  | --                  | --                   |
| 3#         | --                  | --                    | --                | --                 | --                | --                  | --                  | --                   |
| Average    | --                  | --                    | --                | --                 | --                | --                  | --                  | --                   |
| Required   | --                  | --                    | --                | --                 | --                | --                  | --                  | --                   |

**Table 5: Spectrum & Polar Plot of DIM-G45-E14-4.5W-Frost 2700K**



Model placed on the Union market from 31/01/2022



**EPREL registration number:** 766940

<https://eprel.ec.europa.eu/qr/766940>

**Supplier:** Orion Leuchten-Fabrik Molecz & Sohn Gesellschaft m.b.H (Manufacturer)

**Website:** [www.orionleuchten.at](http://www.orionleuchten.at)

**Customer care service:**

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