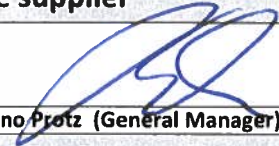


## Name and address of the supplier

Hagen Deutschland GmbH & Co.KG  
Lehmweg 99-105 D-25488 Holm

## Name and signature of the person empowered to bind the supplier

  
Tino Protz (General Manager)

## Product

|            |        |                  |                         |
|------------|--------|------------------|-------------------------|
| Itemnumber | PT2377 | Item description | EX Natural Light T8 25W |
|------------|--------|------------------|-------------------------|

## Technical Parameters

|                                                                                                            | measurement values    |                       |
|------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
|                                                                                                            | specified             | measured              |
| useful luminous flux ( $\Phi_{\text{use}}$ )                                                               | 1400 lm               | 1432 lm               |
| color rendering index (CRI)                                                                                | NA RA                 | 71.5 RA               |
| on-mode power ( $P_{\text{on}}$ )                                                                          | 25 W                  | 25.5 W                |
| beam angel for directional light sources (DLS)                                                             | NA °                  | NA °                  |
| correlated color temperature (CCT) for FL and HID light sources                                            | 6300 K                | 6382 K                |
| standby power ( $P_{\text{sb}}$ ), including when it is zero                                               | NA W                  | NA W                  |
| network standby power ( $P_{\text{net}}$ ) for connected light sources (CLS)                               | NA W                  | NA W                  |
| displacement factor ( $\cos\phi$ ) for LED / OLED main light sources                                       | NA                    | NA                    |
| color consistency in MacAdam ellipse steps for LED and OLED light sources                                  | NA                    | NA                    |
| luminance-HLLS (only for HLLS)                                                                             | NA cd/mm <sup>2</sup> | NA cd/mm <sup>2</sup> |
| flicker metric (PstLM) for LED and OLED light sources                                                      | NA                    | NA                    |
| stroboscopic effect metric (SVM) for LED and OLED light sources                                            | NA                    | NA                    |
| excitation purity, only for CTLS, for the following colors and dominant wavelength within the given range: |                       |                       |
| Color Dominant wave-length range                                                                           |                       |                       |
| blue 440 nm – 490 nm                                                                                       | NA nm                 | NA nm                 |
| green 520 nm – 570 nm                                                                                      | NA nm                 | NA nm                 |
| red 610 nm – 670 nm                                                                                        | NA nm                 | NA nm                 |
|                                                                                                            |                       |                       |
|                                                                                                            |                       |                       |

## calculations performed with the parameters, including the determination of the energy efficiency class

$\eta_{TM}(\Phi_{use}/P_{on}) \cdot F_{TM}(lm/W)$ 
 $1432LM/25.5W \cdot 0.926 = 52.00LM/W$ 
 Energy efficiency class: G

## references to the harmonized standards applied or other standards used

(EU) 2019/2020

(EU) 2017/1369

(EU) 2019/2015

## testing conditions if not described sufficiently under harmonized standards applied or other standards used

CIE 84:1989: The Measurement of Luminous Flux

CIE13.3-1995: Method of Measuring and Specifying Color Rendering of Light Sources

CIE15:2004: Colorimetry, 3rd edition

CIE63:1984: The Spectroradiometric Measurement of Light Sources

**reference control settings, and instructions on how they could be implemented, where applicable**

NA

**instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimize their power consumption during light source testing**

NA

**specific precautions that shall be taken when the model is assembled, installed, maintained or tested**

Glass products, please avoid collision and impact.

Avoid direct contact with skin during use, Wear protective gloves.

Please disconnect the power supply before installation or maintenance.

In the process of using, not be used as voltage higher than specification.

Do not use with dimmer.