

# Produktdatenblatt

DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur  
Energieverbrauchskennzeichnung von Lichtquellen

**Name oder Handelsmarke des Lieferanten:** Fontastic

**Anschrift des Lieferanten:** Product Manager, Birkenweiher Straße 16, 63505 Langenselbold, DE

**Modellkennung:** SH10

**Art der Lichtquelle:**

|                                                                         |      |                              |      |
|-------------------------------------------------------------------------|------|------------------------------|------|
| Verwendete Beleuchtungstechnologie:                                     | LED  | Ungebündelt oder gebündelt:  | NDLS |
| Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle) | E27  |                              |      |
| Netzspannung/Nicht direkt an die Netzspannung angeschlossen:            | MLS  | Vernetzte Lichtquelle (CLS): | Nein |
| Farblich abstimmbare Lichtquelle:                                       | Ja   | Hülle:                       | -    |
| Lichtquelle mit hoher Leuchtdichte:                                     | Nein |                              |      |
| Blendschutzschild:                                                      | Nein | Dimmbar:                     | Ja   |

## Produktparameter

| Parameter                                                                                                                                                                                                  | Wert                           | Parameter                                                                                                                                                         | Wert  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Allgemeine Produktparameter:</b>                                                                                                                                                                        |                                |                                                                                                                                                                   |       |
| Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet                                                                                                                   | 10                             | Energieeffizienzklasse                                                                                                                                            | F     |
| Nutzlichtstrom ( $\phi_{use}$ ) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel ( $360^\circ$ ), in einem breiten Kegel ( $120^\circ$ ) oder in einem schmalen Kegel ( $90^\circ$ ) bezieht | 1 000 in Kugel ( $360^\circ$ ) | ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K | 2 700 |
| Leistungsaufnahme im Ein-Zustand ( $P_{on}$ ) in W                                                                                                                                                         | 10,0                           | Leistungsaufnahme im Bereitschaftszustand ( $P_{sb}$ ) in W, auf die zweite Dezimalstelle gerundet                                                                | 0,70  |
| Leistungsaufnahme im vernetzten Bereitschaftsbetrieb ( $P_{net}$ )                                                                                                                                         | -                              | Farbwiedergabeindex, auf die nächstliegende gan-                                                                                                                  | 82    |

|                                                                                                                                               |        |      |                                                                          |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------------------------------------------------------------------------|------------------------------|
| für CLS in W, auf die zweite Dezimalstelle gerundet                                                                                           |        |      | ze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte                |                              |
| äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)                   | Höhe   | 133  | Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast | Siehe Bild auf letzter Seite |
|                                                                                                                                               | Breite | 70   |                                                                          |                              |
|                                                                                                                                               | Tiefe  | 70   |                                                                          |                              |
| Angabe zu einer gleichwertigen Leistungsaufnahme <sup>(a)</sup>                                                                               |        | Ja   | Falls ja, gleichwertige Leistungsaufnahme (W)                            | 60                           |
|                                                                                                                                               |        |      | Farbwertanteile (x und y)                                                | 0,467<br>0,422               |
| <b>Parameter für LED- und OLED-Lichtquellen:</b>                                                                                              |        |      |                                                                          |                              |
| Wert des R9-Farbwiedergabeindex                                                                                                               |        | 6    | Lebensdauerfaktor                                                        | 1,00                         |
| Lichtstromerhalt                                                                                                                              |        | 0,70 |                                                                          |                              |
| <b>Parameter für LED- und OLED-Netzspannungslichtquellen:</b>                                                                                 |        |      |                                                                          |                              |
| Verschiebungsfaktor ( $\cos \phi_1$ )                                                                                                         |        | 0,85 | Farbkonsistenz in MacAdam-Ellipsen                                       | 3                            |
| Angabe, dass eine LED-Lichtquelle eine Leuchtstofflichtquelle ohne eingebautes Vorschaltgerät mit einer bestimmten Leistungsaufnahme ersetzt. |        | _(b) | Falls ja, Angabe zur ersetzten Leistungsaufnahme (W)                     | -                            |
| Flimmer-Messgröße (Pst LM)                                                                                                                    |        | 0,1  | Messgröße für Stroboskop-Effekte (SVM)                                   | 0,3                          |

(a) „-“: nicht zutreffend;

(b) „-“: nicht zutreffend;

## Test and verification results (Cont'd)

| Annex III (Clause) | Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Packaging, from stage 1                            | Result - Remark | Verdict |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 3.1.2m)            | The claimed equivalent incandescent lamp power shall corresponding in Table 6 to the luminous flux of the lamp                  |                 | N/A     |
| 3.1.2n)            | Lamp mercury content                                                                                                            | No such part    | N/A     |
| 3.1.2o)            | Indication which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris |                 | N/A     |

| Annex III (Clause) | Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Free-Access Websites, from stage 1 | Result - Remark | Verdict |
|--------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|---------|
| 3.1.3a)            | The information specified on packaging                                                                          | All above       | P       |
| 3.1.3b)            | Rated wattage (0,1W precision)                                                                                  | 10.0W           | P       |
| 3.1.3c)            | Rated luminous flux                                                                                             | 1000lm          | P       |
| 3.1.3d)            | Rated lamp life time                                                                                            | 30000Hours      | P       |
| 3.1.3e)            | Lamp power factor                                                                                               | P.F.>0.5        | P       |
| 3.1.3f)            | Lumen maintenance factor at the end of the nominal life                                                         | ≥80%            | P       |
| 3.1.3g)            | Starting time                                                                                                   | <0.2S           | P       |
| 3.1.3h)            | Colour rendering                                                                                                | ≥80             | P       |
| 3.1.3i)            | Colour consistency (Only for LEDs)                                                                              | <6              | P       |
| 3.1.3j)            | Rated peak intensity in candela (cd)                                                                            |                 | N/A     |
| 3.1.3k)            | Rated beam angle                                                                                                |                 | N/A     |
| 3.1.3l)            | Intended for use in outdoor or industrial applications (If applicable)                                          | Indoor          | P       |
| 3.1.3m)            | Spectral power distribution in range 180-800nm                                                                  |                 | N/A     |
| 3.1.3n)            | Instruction on how to clean up the lamp debris in case of accidental lamp breakage                              |                 | N/A     |
| 3.1.3o)            | Recommendations on how to dispose of the lamp at its end of life                                                |                 | N/A     |

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# Product Information Sheet

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

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

**Supplier's address:** Product Manager, Birkenweiher Straße 16, 63505 Langenselbold, DE

**Model identifier:** SH10

**Type of light source:**

|                                                     |     |                                 |      |
|-----------------------------------------------------|-----|---------------------------------|------|
| Lighting technology used:                           | LED | Non-directional or directional: | NDLS |
| Light source cap-type (or other electric interface) | E27 |                                 |      |
| Mains or non-mains:                                 | MLS | Connected light source (CLS):   | No   |
| Colour-tuneable light source:                       | Yes | 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                                                                         | 10                     | Energy efficiency class                                                                                                                                    | F                      |
| Useful luminous flux ( $\phi_{\text{use}}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°) | 1 000 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 ( $P_{\text{on}}$ ), expressed in W                                                                                                     | 10,0                   | Standby power ( $P_{\text{sb}}$ ), expressed in W and rounded to the second decimal                                                                        | 0,70                   |
| Networked standby power ( $P_{\text{net}}$ ) 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                                                         | 82                     |
| Outer dimensions without separate control gear, lighting control                                                                                      | Height                 | Spectral power distribution in the range 250 nm to 800 nm, at full-load                                                                                    | See image in last page |
|                                                                                                                                                       | Width                  |                                                                                                                                                            |                        |
|                                                                                                                                                       | Depth                  |                                                                                                                                                            |                        |

|                                                                                                                         |      |                                       |                |  |
|-------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------|----------------|--|
| parts and non-lighting control parts, if any (millimetre)                                                               |      |                                       |                |  |
| Claim of equivalent power <sup>(a)</sup>                                                                                | Yes  | If yes, equivalent power (W)          | 60             |  |
|                                                                                                                         |      | Chromaticity coordinates (x and y)    | 0,467<br>0,422 |  |
| <b>Parameters for LED and OLED light sources:</b>                                                                       |      |                                       |                |  |
| R9 colour rendering index value                                                                                         | 6    | Survival factor                       | 1,00           |  |
| the lumen maintenance factor                                                                                            | 0,70 |                                       |                |  |
| <b>Parameters for LED and OLED mains light sources:</b>                                                                 |      |                                       |                |  |
| displacement factor (cos $\phi_1$ )                                                                                     | 0,85 | Colour consistency in McAdam ellipses | 3              |  |
| 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)                                                                                                 | 0,1  | Stroboscopic effect metric (SVM)      | 0,3            |  |

(a) '-': not applicable;

(b) '-': not applicable;

## Test and verification results (Cont'd)

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| 3.1.2m)            | The claimed equivalent incandescent lamp power shall corresponding in Table 6 to the luminous flux of the lamp                  |                 | N/A     |
| 3.1.2n)            | Lamp mercury content                                                                                                            | No such part    | N/A     |
| 3.1.2o)            | Indication which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris |                 | N/A     |

| Annex III (Clause) | Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Free-Access Websites, from stage 1 | Result - Remark | Verdict |
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| 3.1.3b)            | Rated wattage (0,1W precision)                                                                                  | 10.0W           | P       |
| 3.1.3c)            | Rated luminous flux                                                                                             | 1000lm          | P       |
| 3.1.3d)            | Rated lamp life time                                                                                            | 30000Hours      | P       |
| 3.1.3e)            | Lamp power factor                                                                                               | P.F.>0.5        | P       |
| 3.1.3f)            | Lumen maintenance factor at the end of the nominal life                                                         | ≥80%            | P       |
| 3.1.3g)            | Starting time                                                                                                   | <0.2S           | P       |
| 3.1.3h)            | Colour rendering                                                                                                | ≥80             | P       |
| 3.1.3i)            | Colour consistency (Only for LEDs)                                                                              | <6              | P       |
| 3.1.3j)            | Rated peak intensity in candela (cd)                                                                            |                 | N/A     |
| 3.1.3k)            | Rated beam angle                                                                                                |                 | N/A     |
| 3.1.3l)            | Intended for use in outdoor or industrial applications (If applicable)                                          | Indoor          | P       |
| 3.1.3m)            | Spectral power distribution in range 180-800nm                                                                  |                 | N/A     |
| 3.1.3n)            | Instruction on how to clean up the lamp debris in case of accidental lamp breakage                              |                 | N/A     |
| 3.1.3o)            | Recommendations on how to dispose of the lamp at its end of life                                                |                 | N/A     |

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