



**Produktdatenblatt gemäß EU Verordnung (EU)
2019/2015 /**
**Product information sheet according EU
regulation (EU)
2019/2015**

TCHIBO Artikelbezeichnung: <i>TCHIBO article description:</i>	
TCHIBO Artikelnummer = Modellkennung: <i>TCHIBO article number = model identifier:</i>	
TCHIBO Projektnummer: <i>TCHIBO project number:</i>	
Name oder Handelsmarke des Lieferanten: <i>Supplier's name or trade mark:</i>	
Anschrift des Lieferanten: <i>Supplier's address (a):</i>	
Wenn vorhanden: Artikelnummer 1:1 Vorgänger: <i>If available: Article number 1:1 previous article:</i>	
Lichtquelletyp: <i>Type of light source:</i>	

Lightning technology used:		Non-directional or directional:	
Mains or non-mains:		Connected light source (CLS):	
Colour tuneable light source		Envelope:	
High luminance light source			
Anti-glare shield		Dimmable:	

Product parameters:

Parameter	Value	Parameter	Value
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General product parameters:

Energy consumption in on-mode (kWh/1 000 h)		Energy efficiency class (b)	
Useful luminous flux (Φ _{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°):		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	
<i>Sphere (360°)</i>		<i>Colour rendering index range (Minimum):</i>	
<i>Wide cone (120°)</i>		<i>Colour rendering index range (Maximum):</i>	
<i>Narrow cone (90°)</i>		<i>similar colour temperature (CCT) in K for FL and HID light sources</i>	
On-mode power (P _{on}), expressed in W		Standby power (P _{sb}), expressed in W and rounded to the second decimal	
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	
Outer dimensions without separate control gear, lighting control parts and non-lighting control parts, if any (millimeter)	Height	Spectral power distribution in the range 250 nm to 800 nm, at full-loa	[graphic on page 3 + jpg.file]
	Width		
	Depth		



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Claim of equivalent power (C)		If yes, equivalent power (W)	
Luminance-HLLS in cd/mm2 (only for HLLS);		Chromaticity coordinates (x and y)	
Parameters for directional light sources:			
Peak luminous intensity (cd)		Beam angle in degrees, or the range of beam angles that can be set	
Parameters for LED and OLED light sources:			
R9 colour rendering index value		Survival factor	
the lumen maintenance factor			
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)		Colour consistency in McAdam ellipses	
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. (d)		If yes then replacement claim (W)	
Flicker metric (Pst LM)		Stroboscopic effect metric (SVM)	

(a) changes to these items shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369.

(b) if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

(c) 'yes': An equivalence claim involving the power of a replaced light source type may be given only:

- for directional light sources, if the light source type is listed in Table 4 and if the luminous flux of the light source in a 90° cone (Φ_{90°) is not lower than the corresponding reference luminous flux in Table 4. The reference luminous flux shall be multiplied by the correction factor in Table 5. For LED light sources, it shall be in addition multiplied by the correction factor in Table 6;
- for non-directional light sources, the claimed equivalent incandescent light source power (rounded to 1 W) shall be that corresponding in Table 7 to the luminous flux of the light source.

The intermediate values of both the luminous flux and the claimed equivalent light source power (rounded to the nearest 1 W) shall be calculated by linear interpolation between the two adjacent values.

(d) 'yes': Claim that a LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. This claim may be made only if:

- the luminous intensity in any direction around the tube axis does not deviate by more than 25 % from the average luminous intensity around the tube; and
- the luminous flux of the LED light source is not lower than the luminous flux of the fluorescent light source of the claimed wattage. The luminous flux of the fluorescent light source shall be obtained by multiplying the claimed wattage with the minimum luminous efficacy value corresponding to the fluorescent light source in Table 8; and
- the wattage of the LED light source is not higher than the wattage of the fluorescent light source it is claimed to replace.

The technical documentation file shall provide the data to support such claims.



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**Spectrum (with English or German axle labelling only) + Spectrum as a separate JPG file (min.
1024 x 1024)**

Produktionsbetrieb / *producing company*

Ausstellungsdatum
Date of issue

_____._____._____

Unterschrift + Stempel
Signature + Stamp

Name, Funktion
Name, Function
