

Product Information Sheet

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

Supplier's name or trade mark: ChiliTec GmbH

Supplier's address: Technik, Bäckerberg 12, 38165 Lehre, DE

Model identifier: 23131

Type of light source:

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

Product parameters

Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	15	Energy efficiency class	F
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°)	1 200 in Wide cone (120°)	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	4 000
On-mode power (P_{on}), expressed in W	15,0	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	83
Outer dimensions without	Height	Spectral power distribution in the	See image in last page
	Width		
	Depth		

separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)		range 250 nm to 800 nm, at full-load	
Claim of equivalent power ^(a)	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,380 0,380
Parameters for LED and OLED light sources:			
R9 colour rendering index value	9	Survival factor	0,50
the lumen maintenance factor	0,70		
Parameters for LED and OLED mains light sources:			
displacement factor (cos ϕ_1)	0,90	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)	0,9	Stroboscopic effect metric (SVM)	0,5

(a): not applicable;

(b): not applicable;

Lightsource Test Report

Product Information

Product Type: W780C40
Product Number: 1

Product Spec: 4000K
Buyer:

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3836$ $y=0.3789$ $u(u')=0.2263$ $v=0.3353$ $v'=0.5030$

CCT: $T_c=3930K$ ($duv=0.00008$)

Color Ratio: $R=0.186$ $G=0.780$ $B=0.034$

Peak Wavelength: 450.7nm

Half Bandwidth: 23.6nm

Dominant Wavelength: 579.3nm

Color Purity: 0.289

Central Wave: 452.3nm

Gravity Wave: 451.0nm

CRI: $R_a=82.9$

TM30: $R_f=84$, $R_g=96$

GAI: $GAI_{BB_8}=93.0$, $GAI_{BB_15}=99.4$, $GAI_{EES}=72.3$

$R_1=81$

$R_2=89$

$R_3=94$

$R_4=82$

$R_5=82$

$R_6=85$

$R_7=86$

$R_8=65$

$R_9=9$

$R_{10}=73$

$R_{11}=81$

$R_{12}=62$

$R_{13}=83$

$R_{14}=97$

$R_{15}=75$

Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.9$, $Q_g=93.2$

$Q_1=82$

$Q_2=99$

$Q_3=79$

$Q_4=76$

$Q_5=82$

$Q_6=83$

$Q_7=85$

$Q_8=89$

$Q_9=97$

$Q_{10}=88$

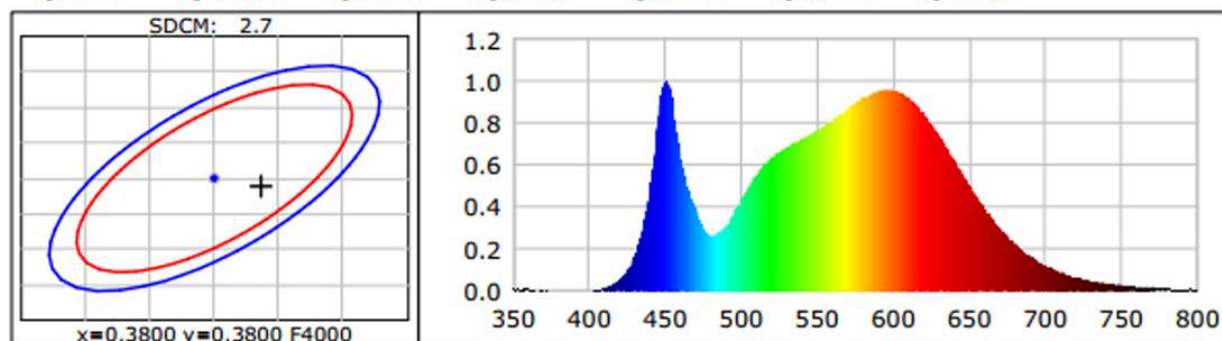
$Q_{11}=85$

$Q_{12}=84$

$Q_{13}=84$

$Q_{14}=73$

$Q_{15}=76$



Photometric Parameters

Luminous Flux: 2000.2 lm

Efficiency: 147.55 lm/W

Radiant Power: 6.030 W

EEI: 0.09

Energy Efficiency Class: A++ (EU 874-2012)

Electric Parameters

Voltage: 77.466V

Current: 0.1750A

Power: 13.56W

Power Factor: 1.0000

Frequency: 0.00Hz