

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: 21298

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	no		
Mains or non-mains:	NMLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	Only with specific dimmers

Product parameters

Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	3	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°)	260 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	4 200
On-mode power (P_{on}), expressed in W	3,0	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	Height	Spectral power distribution in the	See image in last page
	Width		

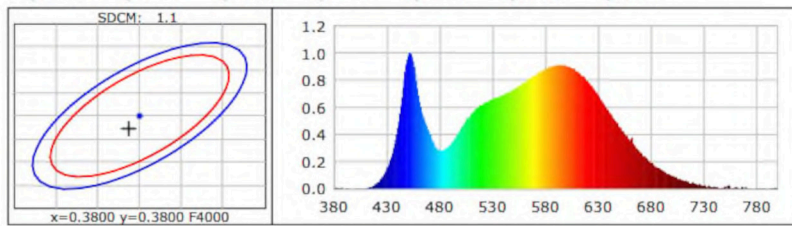
without separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)	Depth	37	range 250 nm to 800 nm, at full-load	
Claim of equivalent power ^(a)		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,378
Parameters for LED and OLED light sources:				
R9 colour rendering index value		8	Survival factor	1,00
the lumen maintenance factor		1,00		

(a) : not applicable;

(b) : not applicable;

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3787$ $y=0.3772$ $u(u')=0.2238$ $v=0.3344$ $v'=0.5015$
CCT: $T_c=4052K$ ($duv=0.00074$) Color Ratio: $R=0.182$ $G=0.781$ $B=0.037$
Peak Wavelength: $452.2nm$ Half Bandwidth: $23.9nm$
Dominant Wavelength: $578.5nm$ Color Purity: 0.269
CRI: $Ra=83.3$ TM30: $Rf=84$, $Rg=95$
GAI: $GAI_BB_8=91.3$, $GAI_BB_15=98.1$, $GAI_EES=72.7$
 $R1=82$ $R2=90$ $R3=95$ $R4=82$ $R5=82$ $R6=86$ $R7=86$ $R8=64$
 $R9=8$ $R10=75$ $R11=81$ $R12=62$ $R13=84$ $R14=98$ $R15=75$
Color Quality Scale: $Qa=82.9$, $Qf=83.2$, $Qp=82.5$, $Qg=92.2$
 $Q1=82$ $Q2=98$ $Q3=80$ $Q4=76$ $Q5=81$ $Q6=83$ $Q7=85$ $Q8=89$
 $Q9=98$ $Q10=89$ $Q11=86$ $Q12=84$ $Q13=84$ $Q14=73$ $Q15=76$



Photometric Parameters

Luminous Flux: $278.98 lm$ Efficiency: $94.06 lm/W$ Radiant Power: $0.834 W$
EEI: 0.10 Energy Efficiency Class: $A++$ (EU 874-2012)
PAR: $0.824 W$ PPF: $3.848 umol/s$ R/B: 1.4
PF1: $0.708 umol/s(400\sim500nm)$ PF2: $1.802 umol/s(500\sim600nm)$
PF3: $1.338 umol/s(600\sim700nm)$ PFfr: $0.061 umol/s(700\sim800nm)$ PPE: $1.297 umol/s/w$ PF: $3.910 umol/s$

Electric Parameters

Voltage: $12.000V$ Current: $0.2472A$ Power: $2.97W$
Power Factor: 1.0000 Frequency: $0.00Hz$