

# Product Information Sheet

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

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

**Supplier's address:** ENOVATEK GmbH, Sillensteder Straße 213, 26441 Jever, DE

**Model identifier:** LX400209

## Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	SMD 2835		
Mains or non-mains:	MLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	No

## 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	20	Energy efficiency class	F
Useful luminous flux ( $\phi_{use}$ ), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	2 000 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	20,0	Standby power ( $P_{sb}$ ), expressed in W and rounded to the second decimal	0,50
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	80
Outer dimensions without separate control gear, lighting control	Height	108	Spectral power distribution in the range 250 nm to 800 nm, at full-load
	Width	104	
	Depth	24	
			See image in last page

parts and non-lighting control parts, if any (millimetre)			
Claim of equivalent power <sup>(a)</sup>	-	If yes, equivalent power (W)	-
		Chromaticity coordinates (x and y)	0,440 0,403
<b>Parameters for LED and OLED light sources:</b>			
R9 colour rendering index value	80	Survival factor	-
the lumen maintenance factor	-		
<b>Parameters for LED and OLED mains light sources:</b>			
displacement factor (cos $\phi_1$ )	0,90	Colour consistency in McAdam ellipses	6
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)	1,0	Stroboscopic effect metric (SVM)	0,9

(a)-: not applicable;

(b)-: not applicable;

# Lightsource Test Report

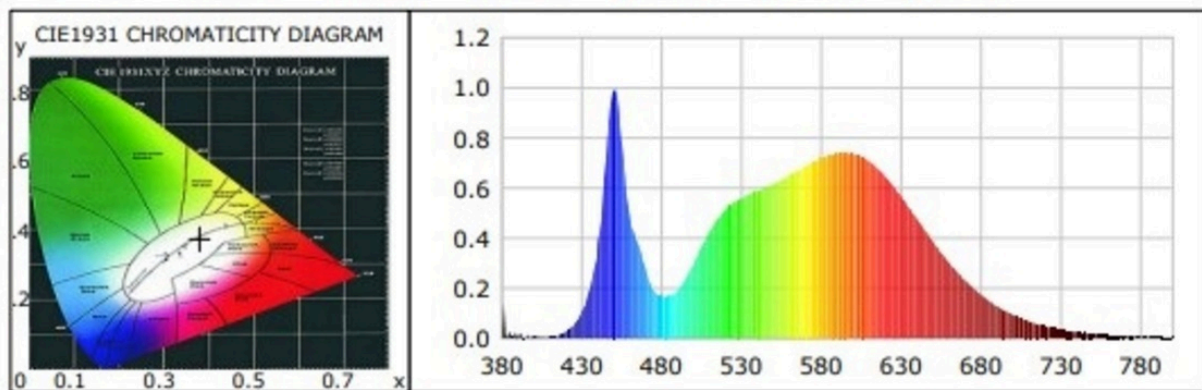
## Product Information

Product Type: LX400109  
Product Number: 2

Product Spec: 4000K

## CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3784$   $y=0.3747$   $u(u')=0.2245$   $v=0.3336$   $v'=0.5004$   
CCT:  $T_c=4043K$  ( $duv=-0.00034$ ) Color Ratio:  $R=0.181$   $G=0.787$   $B=0.032$   
Peak Wavelength: 450.8nm Half Bandwidth: 17.3nm  
Dominant Wavelength: 579.1nm Color Purity: 0.260  
CRI:  $R_a=81.6$  TM30:  $R_f=80$ ,  $R_g=97$   
 $R1=80$   $R2=87$   $R3=91$   $R4=82$   $R5=80$   $R6=81$   $R7=86$   $R8=66$   
 $R9=8$   $R10=68$   $R11=80$   $R12=55$   $R13=82$   $R14=95$   $R15=75$   
Color Quality Scale:  $Q_a=81.0$ ,  $Q_f=80.7$ ,  $Q_p=82.1$ ,  $Q_g=93.9$   
 $Q1=82$   $Q2=98$   $Q3=74$   $Q4=72$   $Q5=79$   $Q6=82$   $Q7=83$   $Q8=88$   
 $Q9=96$   $Q10=85$   $Q11=82$   $Q12=82$   $Q13=83$   $Q14=72$   $Q15=76$



## Photometric Parameters

Luminous Flux: 2257.60 lm  
EEI: 0.13

Efficiency: 108.54 lm/W

Radiant Power: 6.824 W

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

## Electric Parameters

Voltage: 231.00V  
Power Factor: 0.7460

Current: 0.1200A  
Frequency: 50.00Hz

Power: 20.80W

## Test Information

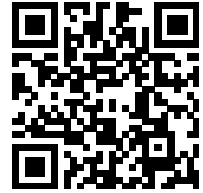
Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 19836 (37452)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.00m, 4 $\pi$   
CCD Integration Time: 193.28 ms

Condition:  $T_x:0.0^\circ C$ ,  $T_i:0.0^\circ C$ , R.H.:60%  
Test Lab:  
Operator:

Test Device: Inventive CMS-2S (Plus)  
Test Time:  
Inspector:

Model placed on the Union market from 01/03/2024



**EPREL registration number:** 1855230

<https://eprel.ec.europa.eu/qr/1855230>

**Supplier:** ENOVATEK GmbH (Importer)

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