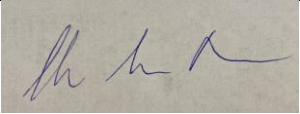


# Technical Documentation Sheet

Commission Regulation (EU) 2019/2020 - implementing Directive 2009/125/EC regarding  
ecodesign requirements for light sources and separate control gears  
Commission Delegated Regulation (EU) 2019/2015 - implementing Regulation 2017/1369  
regarding Energy Labeling of light sources

General Information	
Report Number	7340191103115C
Date of issue	21-NOV-2023
Manufacturer Name	Coop Sverige AB Coop Norge SA
Manufacturer Address	1741 88 Solna Østre Aker vei 264, 0977 Oslo, Norge
Name and Signature of Authorized Approver	 christina.aagaard.rasmussen

Product identification	
Product Model Identifier	7340191103115C
Product Name (Optional)	Xtra LED 25W P45 E14 WW FR ND 1PF/10
Trademark	Xtra
Base Model	NA

Reference to harmonized standards and/or other standards
IEC 62612: Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements IEC TR 61547-1: Equipment for general lighting purposes – EMC immunity requirements – Part 1: Objective light flickermeter and voltage fluctuation immunity test method IEC TR 63158: Equipment for general lighting purposes – Objective test method for stroboscopic effects of lighting equipment

<b>Type of Light Source</b>	
Lighting Technology Used	LED
Directional or Non-Directional	NDLS
Mains or Non-Mains	MLS
Connected Light Source	No
Colour-Tunable Light Source	No
Envelope	No
High Luminance Light Source	No
With Anti-Glare Shield	No
Dimmable	No

<b>Light Source Properties</b>	
Rated Voltage [V]	220-240
Rated Frequency [Hz]	50/60
Rated Current [mA]	30
Rated Ambient Temperature (T <sub>a</sub> ) [°C]	25
Additional information on test condition	NA
Additional information on lighting control part or non-lighting part	NA
Pre-cautions regarding light source assemble, install, maintain, or test.	NA

<b>Exemptions</b>	
Exemption description	NA
Technical parameters that make the product design specific to qualify for the exemption	NA

Product parameters - Declared values		
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General product parameters			
Energy consumption in On-mode	[kWh/1000hrs]	4	
Energy efficiency class	[A/B/C/D/E/F/G]	G	
Useful luminous flux ( $\Phi_{use}$ )	[lm]	250	<i>Sphere</i>
Correlated colour temperature (CCT)	[K]	2700	<i>Single</i>
Correlated colour temperature at reference control setting	[K]	NA	
On-mode power ( $P_{on}$ )	[W]	3.2	
Standby power ( $P_{sb}$ )	[W]	NA	
Networked standby power ( $P_{net}$ )	[W]	NA	
Colour rendering index	[-]	80	
Chromaticity coordinates	x	0.458	
	y	0.410	
Outer dimensions	Height [mm]	84	
	Width [mm]	45	
	Depth [mm]	45	

Parameters for directional light sources		
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Peak luminous intensity	[Cd]	NA
(Range of) Beam angle(s)	[°]	NA

Parameters for LED and OLED light sources		
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R9 colour rendering index value	[-]	0
Indicative lifetime L70B50	[hrs]	15000
Survival factor	[-]	0.90
Lumen maintenance factor	[-]	0.93

Parameters for LED and OLED mains light sources		
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Displacement factor $\cos \phi_1$	[-]	0.50
Colour consistency	[SDCM]	6
Replacement claim	for Fluorescent [W]	No
	for Halogen/Incandescent [W]	25
Flicker metric ( $P_{st LM}$ )	[-]	1.0
Stroboscopic effect metric (SVM)	[-]	0.4

**Product parameters - Measured values (\*)****General product parameters**

On-mode power ( $P_{on}$ )	[W]	2.5	
Standby power ( $P_{sb}$ )	[W]	NA	
Networked standby power ( $P_{net}$ )	[W]	NA	
Useful luminous flux ( $\Phi_{use}$ )	[lm]	254	<i>Sphere</i>
Colour rendering index	[-]	82	
Correlated colour temperature	[K]	2711	

**Parameters for directional light sources**

Peak luminous intensity	[Cd]	NA
(Range of) Beam angle(s)	[°]	NA

**Parameters for LED and OLED light sources**

R9 colour rendering index value	5
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**Parameters for LED and OLED mains light sources**

Displacement factor $\cos \phi_1$	0.69
Colour consistency [SDCM]	2
Flicker metric ( $P_{st}$ LM)	0.1
Stroboscopic effect metric (SVM)	0.0

**Parameters for colour tunable LED and OLED light sources**

Excitation Purity Index	Blue	NA
	Green	NA
	Red	NA

(\*) Values as measured under reference control setting.

Reference control setting:

NA

**Calculation Explanation****Calculation of Energy Efficiency Class**

On-mode power ( $P_{on}$ )	[W]	3.2	
Useful luminous flux ( $\Phi_{use}$ )	[lm]	250	
Factor total mains ( $F_{TM}$ )	[-]	1.000	According to Table 2, Annex II of EU 2019/2015
Total mains efficacy ( $\eta_{TM}$ )	[lm/W]	78.125	$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM}$
Energy Efficiency Class	[A/B/C/D/E/F/G]	G	According to Table 1, Annex II of EU 2019/2015

**Calculation of Energy Consumption**

On-mode power ( $P_{on}$ )	[W]	3.2	
Energy consumption in On-mode	[kWh/1000hrs]	4	Rounded up to integer base on $P_{on}$

**Calculation of  $P_{onmax}$** 

Useful luminous flux ( $\Phi_{use}$ )	[lm]	250	
Threshold efficacy ( $\eta$ )	[lm/W]	120.0	According to Table 1, Annex II of EU 2019/2020
End loss factor (L)	[W]	1.5	According to Table 1, Annex II of EU 2019/2020
Correction factor (C)	[-]	1.08	According to Table 2, Annex II of EU 2019/2020
Bonus on C:	None	0.00	According to Table 2, Annex II of EU 2019/2020
Efficacy factor (F)	[-]	1.00	1.00 for NDLS, 0.85 for DLS
CRI factor (R)	[-]	1.00	0.65 for $CRI \leq 25$ ; ( $CRI+80$ )/160 for $CRI > 25$ , rounded to 2 decimals
$P_{onmax}$	[W]	3.87	$P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$