Technical documentation	item number 5193002118
the name and address of the light source supplier;	LUTEC LUTEC Europe NV,Herentalsebaan 425. B-2160 Wommelgem-Belgium
supplier's model identifier of the light source;	LS_1930RM
the model identifier of all equivalent models already placed on the market;	/

declared and measured values for the following technical parameters:

useful luminous flux (Φ_{use}) in lm	1600
colour rendering index (CRI)	80
on-mode power (P_{on}) in W	11.30
beam angle in degrees for directional light sources (DLS)	NA
peak luminous intensity in cd for directional light sources (DLS)	NA
correlated colour temperature (CCT) in K;	3000
standby power (P_{sb}) in W, including when it is zero	0.5
networked standby power (P_{net}) in W for connected light sources (CLS)	0
R9 colour rendering index value for LED and OLED light sources	12
survival factor for LED and OLED light sources	1
lumen maintenance factor for LED and OLED light sources	0,96
indicative lifetime L70B50 for LED and OLED light sources	30000h
displacement factor (cos φ1) for LED and OLED mains light sources	0.7

<table>
<tr><td>colour consistency in MacAdam ellipse steps for LED and OLED light sources</td><td colspan="2">6</td></tr>
<tr><td>luminance-HLLS in cd/mm$_2$ (only for HLLS)</td><td colspan="2">NA</td></tr>
<tr><td>flicker metric (PstLM) for LED and OLED light sources</td><td colspan="2">1</td></tr>
<tr><td>stroboscopic effect metric (SVM) for LED and OLED light sources</td><td colspan="2">/</td></tr>
<tr><td rowspan="4">excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:</td><td>Colour Dominant wave-length range</td><td>NA</td></tr>
<tr><td>Blue 440 nm – 490 nm</td><td>NA</td></tr>
<tr><td>Green 520 nm – 570 nm</td><td>NA</td></tr>
<tr><td>Red 610 nm – 670 nm</td><td>NA</td></tr>
<tr><td>the calculations performed with the parameters, including the determination of the energy efficiency class;</td><td colspan="2">on the basis of the total mains efficacy ηTM, which is calculated by dividing the declared useful luminous flux Φuse (expressed in lm) by the declared on mode power consumption Pon (expressed in W) and multiplying by the applicable factor FTM of Annex II, Table 2 of EU2019/2015 as follow:ηTM = (Φuse/Pon) × FTM (lm/W)=(1600 /11.3) ×1= 141.59 lm/W

<table>
<tr><th>Light source type</th><th>Factor F_{TM}</th></tr>
<tr><td>Non-directional (NDLS) operating on mains (MLS)</td><td>1,000</td></tr>
</table>

<table>
<tr><th>Energy efficiency class</th><th>Total mains efficacy η_{TM} (lm/W)</th></tr>
<tr><td>A (most efficient)</td><td>210 ≤ η_{TM}</td></tr>
<tr><td>B</td><td>185 ≤ η_{TM} < 210</td></tr>
<tr><td>C</td><td>160 ≤ η_{TM} < 185</td></tr>
<tr><td>D</td><td>135 ≤ η_{TM} < 160</td></tr>
<tr><td>E</td><td>110 ≤ η_{TM} < 135</td></tr>
<tr><td>F</td><td>85 ≤ η_{TM} < 110</td></tr>
<tr><td>G (least efficient)</td><td>η_{TM} < 85</td></tr>
</table>
</td></tr>
</table>

references to the harmonised standards applied or other standards used;	EN IEC 60598-1:2021 +A11:2022 EN IEC 60598-2-1:2021 EN 55015:2019/A11:2020 EN 61547:2023 EN 61000-3-2:2019 EN 61000-3-3:2013/A1:2019 EN 62321-1: 2013 EN 62321-2: 2013 EN 62321-3-1: 2013 EN 62321-4: 2013+AMD1: 2017 EN 62321-5: 2013 EN 62321-6: 2015 EN 62321-7-1: 2015. EN 62321-7-2: 2017 EN 62321-8:2017 (EU) 2019/2015 (EU) 2019/2020
testing conditions if not described sufficiently in point	Ambient temperature for test: 25 ° C Test voltage(s) (V):230V~ Test Frequency (ies)(Hz):50Hz
the reference control settings, and instructions on how they can be implemented, where applicable;	
instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them	see Light source remove instruction
off or minimise their power consumption during light source testing;	NA
specific precautions that shall be taken when the model is assembled, installed, maintained or tested	see Light source remove instruction; also mentioned in the instruction manual that "The light source is only exchangeable by a professional."

identification and signature of the person empowered to bind the supplier;	**LUTEC Europe N.V.** Herentalsebaan 425 B-2160 Wommelgem VAT:BE 0685 754 069 Delegated executive director BLUE OCEAN CONSULTING BV Permanent representative Stephane De Weerdt