

Technical documentation

item number

5104003012 5104003032

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_10400AM

the model identifier of all equivalent models already placed on the market;

/

declared and measured values for the following technical parameters:

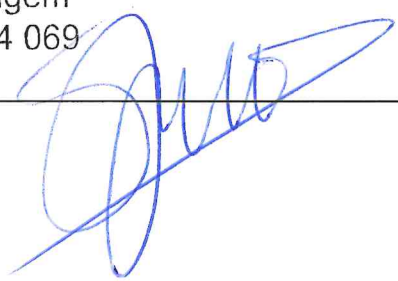
useful luminous flux (Φ_{use}) in lm	1050
colour rendering index (CRI)	80
on-mode power (P_{on}) in W	7.5
beam angle in degrees for directional light sources (DLS)	NA
peak luminous intensity in cd for directional light sources (DLS)	NA
correlated colour temperature (CCT) in K;	3000
standby power (P_{sb}) in W, including when it is zero	0
networked standby power (P_{net}) in W for connected light sources (CLS)	0
R9 colour rendering index value for LED and OLED light sources	11
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 ($\cos \phi_1$) for LED and OLED mains light sources	0.7

colour consistency in MacAdam ellipse steps for LED and OLED light sources	6																				
luminance-HLLS in cd/mm ² (only for HLLS)	NA																				
flicker metric (PstLM) for LED and OLED light sources	1																				
stroboscopic effect metric (SVM) for LED and OLED light sources	/																				
excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:	Colour Dominant wavelength range	NA																			
	Blue 440 nm – 490 nm	NA																			
	Green 520 nm – 570 nm	NA																			
	Red 610 nm – 670 nm	NA																			
the calculations performed with the parameters, including the determination of the energy efficiency class;	<p>on the basis of the total mains efficacy η_{TM}, which is calculated by dividing the declared useful luminous flux Φ_{use} (expressed in lm) by the declared on mode power consumption P_{on} (expressed in W) and multiplying by the applicable factor F_{TM} of Annex II, Table 2 of EU2019/2015 as follow: $\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM}$ (lm/W) = (1050 / 7.5) × 1 = 140 lm/W</p>																				
	<table border="1" data-bbox="655 1346 1337 1469"> <thead> <tr> <th>Light source type</th> <th>Factor F_{TM}</th> </tr> </thead> <tbody> <tr> <td>Non-directional (NDLS) operating on mains (MLS)</td> <td>1,000</td> </tr> </tbody> </table> <table border="1" data-bbox="663 1541 1318 1756"> <thead> <tr> <th>Energy efficiency class</th> <th>Total mains efficacy η_{TM} (lm/W)</th> </tr> </thead> <tbody> <tr> <td>A (most efficient)</td> <td>$210 \leq \eta_{TM}$</td> </tr> <tr> <td>B</td> <td>$185 \leq \eta_{TM} < 210$</td> </tr> <tr> <td>C</td> <td>$160 \leq \eta_{TM} < 185$</td> </tr> <tr> <td>D</td> <td>$135 \leq \eta_{TM} < 160$</td> </tr> <tr> <td>E</td> <td>$110 \leq \eta_{TM} < 135$</td> </tr> <tr> <td>F</td> <td>$85 \leq \eta_{TM} < 110$</td> </tr> <tr> <td>G (least efficient)</td> <td>$\eta_{TM} < 85$</td> </tr> </tbody> </table>		Light source type	Factor F_{TM}	Non-directional (NDLS) operating on mains (MLS)	1,000	Energy efficiency class	Total mains efficacy η_{TM} (lm/W)	A (most efficient)	$210 \leq \eta_{TM}$	B	$185 \leq \eta_{TM} < 210$	C	$160 \leq \eta_{TM} < 185$	D	$135 \leq \eta_{TM} < 160$	E	$110 \leq \eta_{TM} < 135$	F	$85 \leq \eta_{TM} < 110$	G (least efficient)
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<p>references to the harmonised standards applied or other standards used;</p>	<p>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</p>
<p>testing conditions if not described sufficiently in point</p>	<p>Ambient temperature for test: 25 ° C Test voltage(s) (V):230V~ Test Frequency (ies)(Hz):50Hz</p>
<p>the reference control settings, and instructions on how they can be implemented, where applicable;</p>	<p>Dimmable via touch</p>
<p>instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them</p>	<p>see Light source remove instruction</p>
<p>off or minimise their power consumption during light source testing;</p>	<p>NA</p>
<p>specific precautions that shall be taken when the model is assembled, installed, maintained or tested</p>	<p>see Light source remove instruction; also mentioned in the instruction manual that "The light source is only exchangeable by a professional."</p>

identification and signature of the person empowered to bind the supplier;

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Delegated executive director
BLUE OCEAN CONSULTING BV
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