

# Product information sheet and technical documentation for **Asteria medium (light-source)**

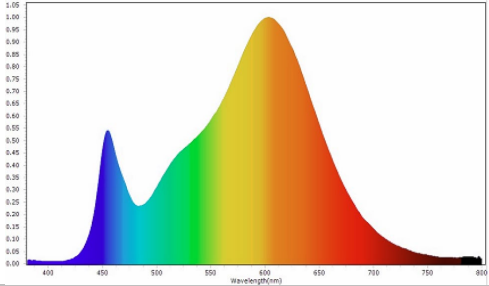
**Supplier name:** UIMAGE ApS

**Supplier address:** Havnegade 29, 1058 Copenhagen Denmark

**Model identifier:** Light-source contained in all “Asteria medium” models

**Type of light source:** Custom PCB with SMD LED’s

Lighting technology used:	LED
Light-source cap type	Custom PCB with SMD LED’s
Non directional or direction light?	Non directional
Mains connected or non-mains connected?	Non-mains connected
Connected light source?	No
Color-turnable light source?	No
Envelope:	No
High luminance light source:	No
Anti-glare shield:	No
Dimmable:	Only with specific dimmers
<i>General product parameters:</i>	
<b>Parameter</b>	<b>Value</b>
Electric parameters input:	19,7V DC 700mA
Electric parameters output:	N/A
Energy consumption in on-mode (kWh/1000 h) (rounded up to nearest integer):	14 kWh/1000h
Energy efficiency class:	D
Useful luminous flux, indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°):	2308 in sphere
Correlated color temperature, rounded to the nearest 100 K, or the range of correlated color temperatures, rounded to the nearest 100 K, that can be set:	3000 K
On-mode power, expressed in W:	13,8 W
Standby power, expressed in W:	0 W
Network standby power for CLS (connected light source), expressed in W:	N/A
Color rendering index (CRI) rounded to the nearest integer, or the range of CRI values that can be set:	84
Outer dimension in mm (excluded cord, separate control gear, lighting control parts, canopy, non-lighting control parts, if any)	Height = 410
	Width = 410
	Depth = 1,2

Spectral power distribution	
Claim of equivalent power:	No
If yes to "claim of equivalent power", then equivalent power (W) is:	N/A
Chromaticity coordinates (x and y):	x = 0,437 y = 0,400
<i>Parameters for directional light sources:</i>	
<b>Parameter</b>	<b>Value</b>
Peak luminous intensity (cd) if directional light source:	N/A
Beam angle in degrees, or the range of beam angles that can be set if directional light source:	N/A
<i>Parameters for LED and OLED light sources:</i>	
<b>Parameter</b>	<b>Value</b>
R9 color rendering index value:	14
Survival factor:	0,9
Lumen maintenance factor:	0,96
LED life time	25000 hours
<i>Parameters for LED and OLED mains light sources:</i>	
<b>Parameter</b>	<b>Value</b>
Displacement factor (cos φ1):	N/A
Color consistency in McAdam ellipses:	N/A
Flicker metric (Pst LM):	N/A
Stroboscopic effect metric (SVM):	N/A

**Calculation of energy efficiency class according to (EU) 2019/2015 Annex II:**

$$\frac{\text{Useful luminous flux [lm]}}{\text{Max power consumption [W]}} \times \text{Light source type factor} = \text{Total mains efficacy} \left[ \frac{\text{lm}}{\text{W}} \right]$$

*Calculation:*

$$\frac{2308}{13,8} \times 0,926 = 154,9$$

154,9 = *Energy efficiency class D*

**Calculation of energy efficiency requirements according to (EU) 2019/2020 Annex II:**

$$\text{Correction factor} \times \left( \text{End loss factor} + \frac{\text{Useful luminous flux [lm]}}{(\text{Efficacy factor} \times \text{Threshold efficacy})} \right) \times \text{CRI factor} = \text{Maximum allowed power [W]}$$

*Calculation:*

$$1,00 \times \left( 1,5 + \frac{2308}{(1,00 \times 120,0)} \right) \times 1,03 = 21,4 \text{ W}$$

**Reference to harmonized standards used and testing conditions:**

Please see separate test reports in EPREL database

**Reference control settings, and how to implement them if applicable:**

N/A

**How to remove/switch off lighting control parts / non-lighting control parts, if any during light-source testing:**

N/A

**Specific precautions that must be taken when model is assembled, installed, maintained or tested:**

N/A

**How to remove light-source and/or separate control gear for verification:**

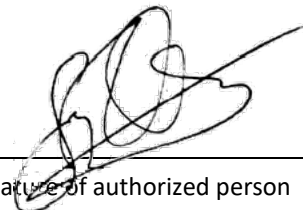
See user guide, which can be downloaded on our website

**Technical justification for why replacement of light-source and/or control gear is not appropriate, if applicable:**

N/A

23-08-2021

Søren Ravn Christensen  
Chief Creative Developer & Partner



Date of issue

Name of authorized person

Signature of authorized person