

TECHNICAL SPECIFICATION

ULTIMA:LED 3.0 AGRO

1. Luminaire

| | |
|--------------------|-------------------|
| Heat sink material | Anodized aluminum |
| Optics material | PMMA / Glass |

2. Light Source

White LED



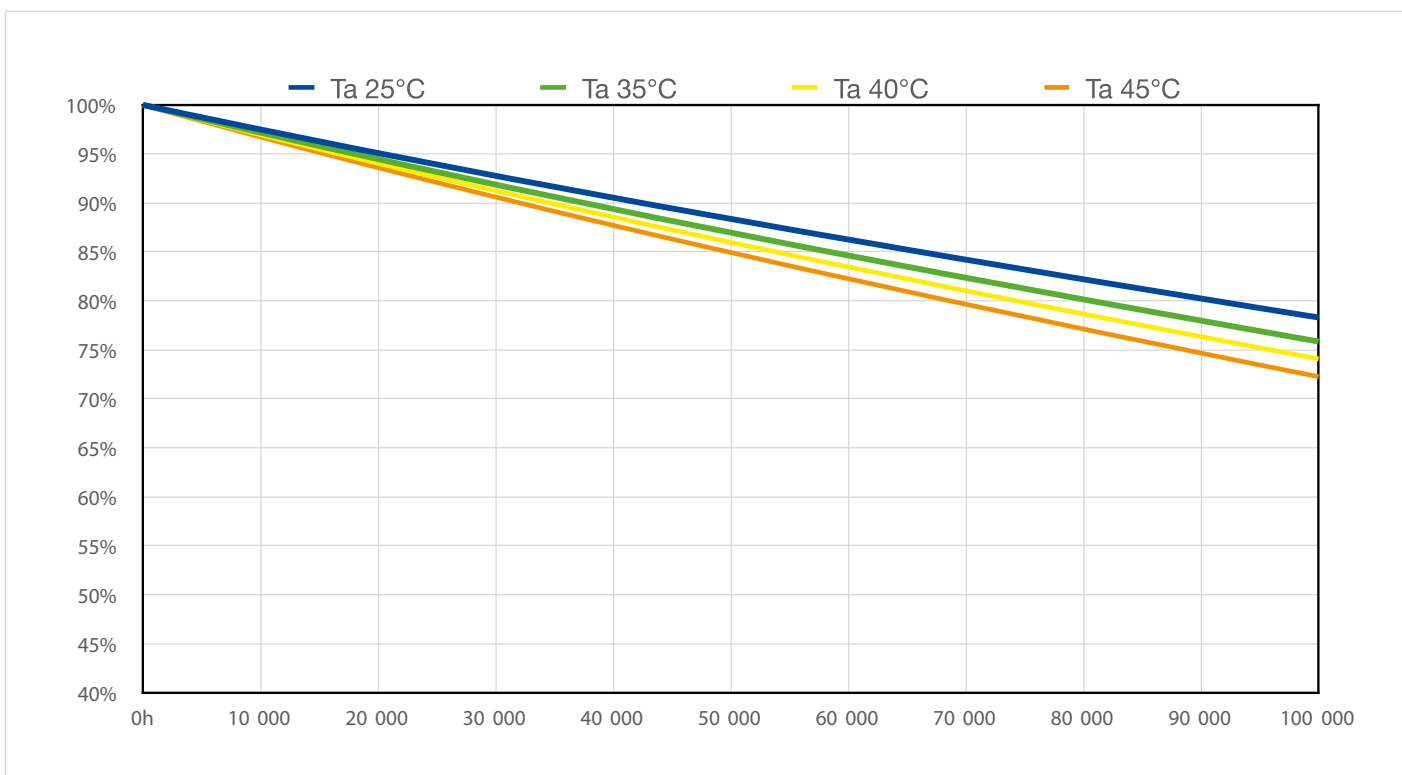
SAMSUNG LM301B

| Parameter | Symbol | Value | Unit |
|-------------------------|----------------|---------------------|------|
| Drive current | If | 93 / 142 / 183 | mA |
| Forward voltage drop | Vf | 2,75 / 2,80 / 2,85 | V |
| Luminous flux | Φ_v | 53,5 / 79,2 / 100,4 | lm |
| Intensity | Iv | 17 / 25 / 32 | cd |
| Diode efficacy | Ef | 209 / 199 / 192 | lm/W |
| Viewing angle at 50% Iv | 2 \downarrow | 120 | ° |
| Thermal resistance | Rth j-s | 7,5 | °C/W |
| Color rendering index | CRI | >80 | Ra |
| Laminate | - | MCPCB 1,5 | mm |

Available CCT options

| CCT | CIE |
|-------|----------------------|
| 3000K | ~Cy 0,392 x Cx 0,434 |
| 4000K | ~Cy 0,369 x Cx 0,383 |
| 5000K | ~Cy 0,345 x Cx 0,367 |

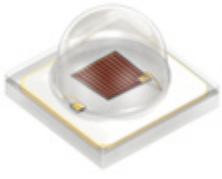
Luminous flux degradation according to IESNA LM-80B10 (hours)



3. Power supply

| Parameter | Symbol | Value | Unit |
|----------------|--------|-----------|------|
| Input voltage | Vf | 198-264 | VAC |
| Output voltage | Vf | 120-350 | VDC |
| Output current | If | 150 - 700 | mA |
| Efficiency | | >96 | % |

Red LED



OSRAM

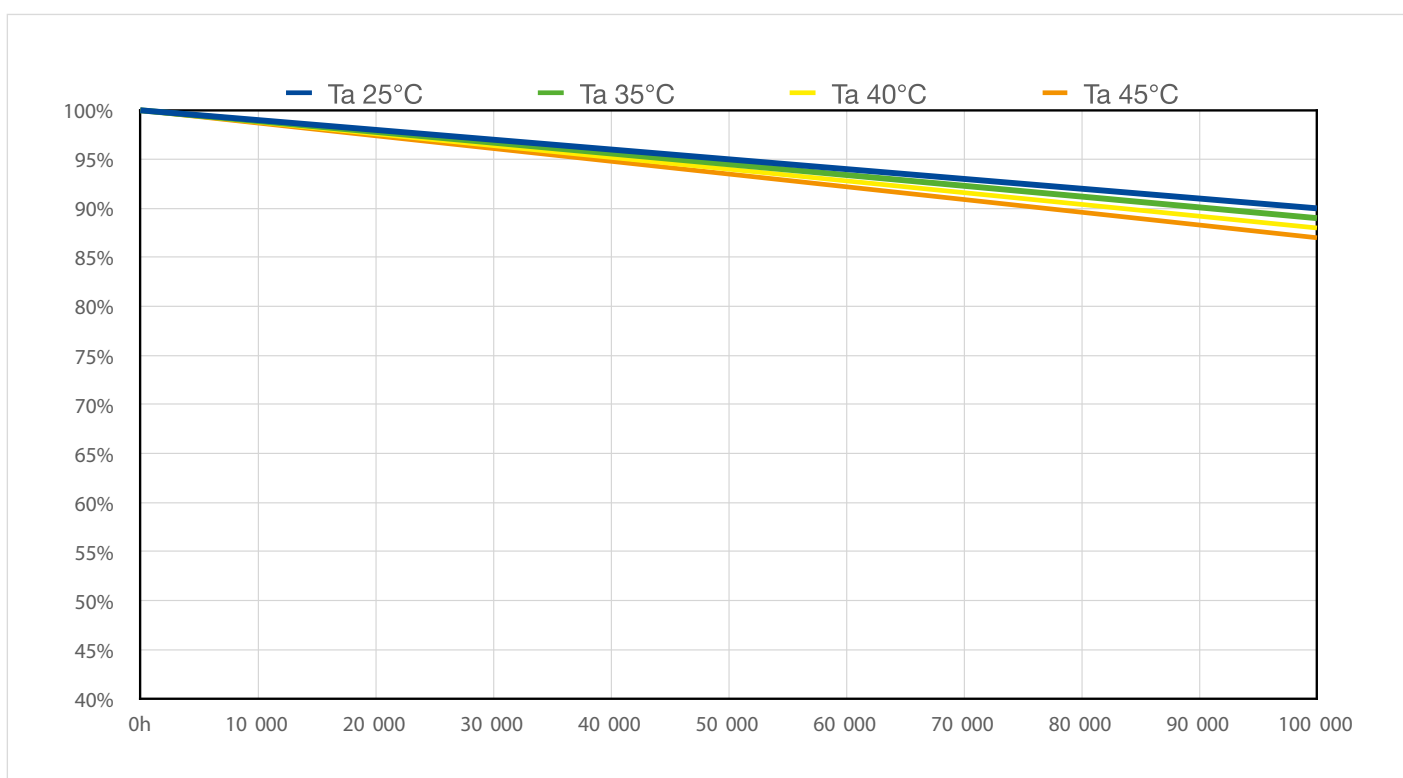
OSRAM GA CS8PM1.23-KSKU-W3

| Parameter | Symbol | Value | Unit |
|----------------------------|---------------|-----------|------|
| Drive current | I_f | 600 | mA |
| Forward voltage drop | V_f | 2.47 | V |
| Luminous flux | Φ_v | 158 | lm |
| Intensity | I_v | 95 | cd |
| Diode efficacy | E_f | 107 | lm/W |
| Viewing angle at 50% I_v | $2\downarrow$ | 80 | ° |
| Thermal resistance | $R_{th\ j-s}$ | 5.3 | °K/W |
| Color rendering index | λ | 625 | nm |
| Laminate | - | MCPCB 1,5 | mm |

Available CCT options

| CCT | CIE |
|-------|----------------------|
| 3000K | ~Cy 0,392 x Cx 0,434 |
| 4000K | ~Cy 0,369 x Cx 0,383 |
| 5000K | ~Cy 0,345 x Cx 0,367 |

Luminous flux degradation according to IESNA LM-80B10 (hours)



3. Power supply

| Parameter | Symbol | Value | Unit |
|----------------|--------|-----------|------|
| Input voltage | Vf | 198-264 | VAC |
| Output voltage | Vf | 20-120 | VDC |
| Output current | If | 350 - 700 | mA |
| Efficiency | | >90 | % |