



## Mauna Plus Anti-Glare

### Mauna Anti-Glare Downlight, Fire Rated Switchable CCT Dimmable

The Kosnic Mauna Plus Anti-glare 6W/4.5W Dimmable Fire Rated Downlights are suitable for 30, 60 and 90 minute applications. They have a switchable CCT function. The downlights are also dimmable with mains dimmer switches and have a choice of additional bezel colours.

**MAU06AG** (06602)

## Specification

|                                     |                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                             | 220-240Vac 50/60Hz                                                                                                                                       |
| Current (mA)                        | 30 (23)                                                                                                                                                  |
| Rated Power (W)                     | 6 (4.5)                                                                                                                                                  |
| CCT Words                           | Warm White (Warm White, Cool White, Day Light)                                                                                                           |
| CCT (K)                             | 3000 (2700, 4000, 6000)                                                                                                                                  |
| Total Luminous Flux (lm)            | 430 (6W, 3000k) - default, 400 (6W, 2700k), 470 (6W, 4000k), 450 (6W, 6000k), 310 (4.5W, 2700k), 330 (4.5W, 3000k), 360 (4.5W, 4000k), 350 (4.5W, 6000k) |
| Nominal Lifetime (h)                | 50000                                                                                                                                                    |
| L70B50 Lifetime (h)                 | 50000                                                                                                                                                    |
| L80B10 Lifetime (h)                 | 50000                                                                                                                                                    |
| L90 Lifetime (h)                    | 37000                                                                                                                                                    |
| Blue Light Hazard                   | RG1                                                                                                                                                      |
| Glow wire temperature(°C)           | 650                                                                                                                                                      |
| UGR                                 | <24                                                                                                                                                      |
| Power Factor                        | 0.88 (6W), 0.86 (4.5W)                                                                                                                                   |
| Cut-Out (mm)                        | 74                                                                                                                                                       |
| Ambient Temperature Range (°C)      | -30 to 40                                                                                                                                                |
| Weight (kg)                         | 0.25                                                                                                                                                     |
| In-rush current (peak/duration) (A) | 10A 150µs                                                                                                                                                |
| Protection Rating                   | Class II                                                                                                                                                 |
| IK Rating                           | IK07                                                                                                                                                     |
| IP Rating                           | IP65 Luminaire, IP20 driver                                                                                                                              |
| Emergency Luminous Flux (lm)        | 150lm (with CEL03LIC/N)                                                                                                                                  |
| Driver Part Number                  | 5RS215-224-248-D                                                                                                                                         |
| Driver Input Voltage                | 200-240 Vac 50/60 Hz                                                                                                                                     |
| Driver Maximum Input Current (mA)   | 23 / 30                                                                                                                                                  |
| Driver Maximum Power (W)            | 3.8 / 5.1                                                                                                                                                |
| Driver Output Voltage (Vdc)         | 54                                                                                                                                                       |

|                                      |              |
|--------------------------------------|--------------|
| Driver Output Current (mA)           | 70 / 95      |
| Driver Dimensions (L x W x D) (mm)   | 85 x 47 x 30 |
| Driver Ripple Current (%)            | <30%         |
| Driver Maximum Case Temperature (°C) | 75           |

## Light Source Specification

|                                              |                                                                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Lighting Technology Used                     | LED                                                                                                                |
| Directional / Non Directional (DLS/NDLS)     | DLS                                                                                                                |
| Light Source Cap Type (or other interface)   | Terminal                                                                                                           |
| Mains / Non-Mains (MLS/NMLS)                 | MLS                                                                                                                |
| Connected Light source (Y/N)                 | N                                                                                                                  |
| Colour Tunable Light Source (Y/N)            | N                                                                                                                  |
| High Luminance Light Source (Y/N)            | N                                                                                                                  |
| Anti-Glare Shield (Y/N)                      | Y                                                                                                                  |
| Dimmable (Y/N/Specific dimmer)               | Y                                                                                                                  |
| Energy Consumption in on-mode (kWh/1000H)    | 6 (5)                                                                                                              |
| Energy Efficiency Class                      | G                                                                                                                  |
| Useful Luminous Flux (lm)                    | 6W - 370 (2700k), 400 (3000k), 430 (4000k), 420(6000k) / 4.5W - 290 (2700k), 310 (3000k), 330 (4000k), 320 (6000k) |
| Beam Angle correspondence (in 360°/120°/90°) | in 90°                                                                                                             |
| CCT                                          | 2700, 3000, 4000, 6000                                                                                             |
| On-Mode Power (Pon) (W)                      | 6 (4.5)                                                                                                            |
| Standby Power (Psb) (W)                      | 0                                                                                                                  |
| Networked Standby Power (Pnet) (W)           | N/A                                                                                                                |
| CRI                                          | 82                                                                                                                 |
| CRI (min)                                    | 80                                                                                                                 |
| CRI (max)                                    | 84                                                                                                                 |
| Height (mm)                                  | 62                                                                                                                 |
| Width (mm)                                   | 91                                                                                                                 |
| Depth (mm)                                   | 91                                                                                                                 |

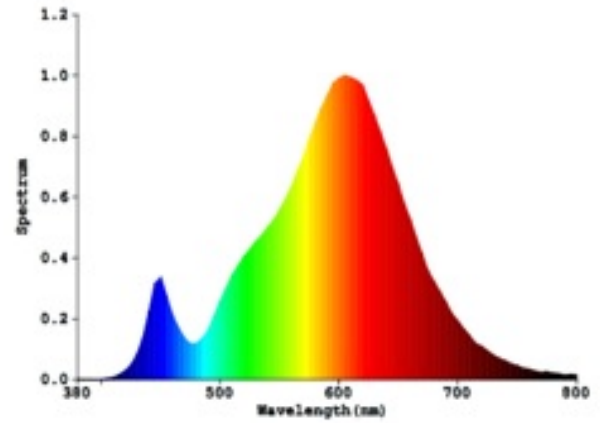
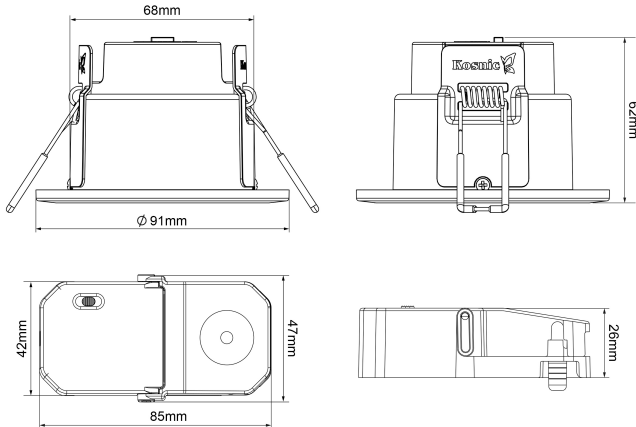


|                                                                                                               |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Claim of Equivalent Power? (Y/N)                                                                              | N                                                                                                                   |
| Equivalent Power (W)                                                                                          | N/A                                                                                                                 |
| Chromaticity Co-Ordinates (X)                                                                                 | 0.462 (2700k), 0.432 (3000k), 0.383 (4000k), 0.316 (6000k)                                                          |
| Chromaticity Co-Ordinates (Y)                                                                                 | 0.415 (2700k) 0.399 (3000k), 0.373 (4000k), 0.338 (6000k)                                                           |
| Peak Luminous Intensity (DLS) (cd)                                                                            | 6W - 420 (2700k), 440 (3000k), 490 (4000k), 480 (6000k) / 4.5W - 420 (2700k), 440 (3000k), 490 (4000k), 480 (6000k) |
| Beam Angle (DLS)                                                                                              | 55                                                                                                                  |
| Beam Angle (min)(DLS)                                                                                         | 50                                                                                                                  |
| Beam Angle (max) (DLS)                                                                                        | 60                                                                                                                  |
| Survival Factor (x.xx)                                                                                        | 0.9                                                                                                                 |
| Lumen Maintenance Factor (x.xx)                                                                               | 0.96                                                                                                                |
| Displacement Factor                                                                                           | 0.96 (6W), 0.92 (4.5W)                                                                                              |
| Colour Consistency in Mcadam Ellipses (Mains LED/OLED)                                                        | 6                                                                                                                   |
| LED light source replaces fluorescent without integrated ballast of particular wattage (Mains LED/OLED) (Y/N) | N                                                                                                                   |
| Replacement W Claim (Mains LED/OLED) (W)                                                                      | N/A                                                                                                                 |
| Flicker metric (pst LM) (x,x)                                                                                 | 0.1                                                                                                                 |
| Stroboscopic effect metric (SVM) (x,x)                                                                        | 0.5 (2700k), 0.7 (3000k,) 0.4 (4000k,) 0.5 (6000k)                                                                  |

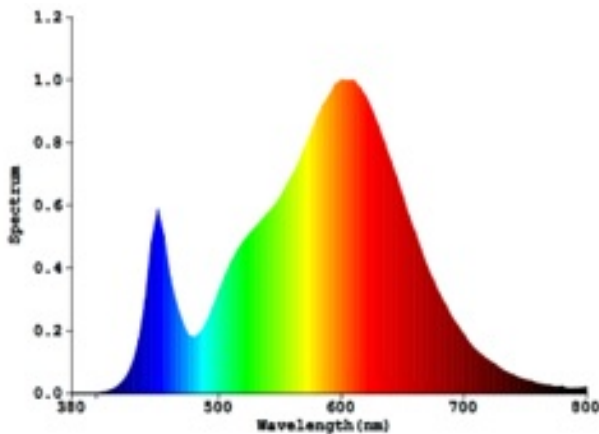
## Optional Gears and Accessories

|                  |                            |
|------------------|----------------------------|
| Optional Gears 1 | CEL03LIC/N                 |
| Optional Gears 2 | EMPAD01                    |
| Accessories 1    | Brass Bezel KPT-06DTBZ-BAS |
| Accessories 2    | Bezel KPT-06DTBZ-BLK       |
| Accessories 3    | Bezel KPT-06DTBZ-WHT       |
| Accessories 4    | Bezel KPT-06DTBZ-CHM       |
| Accessories 5    | Bezel KPT-06DTBZ-SCH       |
| Accessories 6    | Bezel KPT-06DTBZ-ABR       |

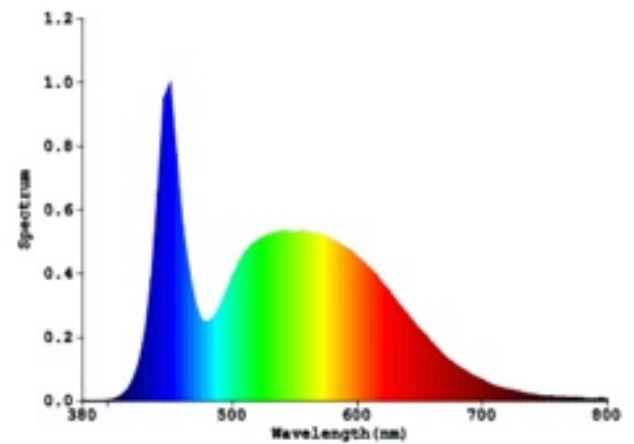
## Technical Drawings



2700k



3000K



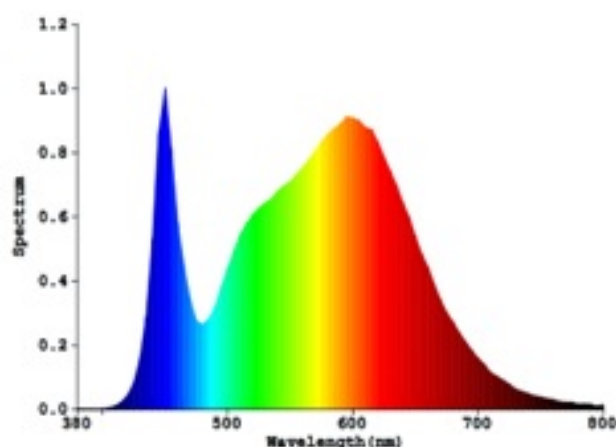
6000k

## Dimming Compatibility

The operation of common mains voltage AC dimmers appears similar, but the electrical characteristics vary significantly. While this makes no difference to filament lamps, the effect on the electronics within the LED driver can be dramatic and incompatible. The recommendations given are based on laboratory testing of the volume shown and should be used as guidance. The complicated application environment and huge variation in dimmer construction mean it is not possible to guarantee that a particular dimmer will work perfectly. In extreme cases incompatible dimmer switches may damage the LED drivers. Please ensure that the set-up is tested for performance before committing to a large project.

### Recommended Dimmer Switches:

| Manufacturer | Model                   | Marked Rating | Notes                                     |
|--------------|-------------------------|---------------|-------------------------------------------|
| Aurora       | AU-DSF400X              | 400W          | 1 to 15 lamps. Approximately 90% dimming. |
| BG           | DM400AP                 | 5-50W LED     | 1 to 15 lamps. Approximately 80% dimming. |
| Click        | CMA145 (or MD9022)      | 250W          | 2 to 15 lamps. Approximately 65% dimming. |
| CYANIRIS     | CYDIMRFT1 (Remote)      | 2 x 288W      | 1 to 15 lamps. Approximately 95% dimming. |
| Danlers      | DQDGD MK                | 400W          | 2 to 15 lamps. Approximately 80% dimming. |
| Hamilton     | LEDITB100               | 100W          | 1 to 15 lamps. Approximately 95% dimming. |
| Hamilton     | H-LEDStatGRID100LED     | 100W          | 1 to 15 lamps. Approximately 95% dimming. |
| Hamilton     | L400/2 (or N4002)       | 400W          | 1 to 15 lamps. Approximately 55% dimming. |
| MK           | K1523***LV (Logic Plus) | 4-70W LED     | 1 to 10 lamps. Approximately 80% dimming. |
| Robus        | LOADPRO RLA200DT-01     | 133W          | 1 to 15 lamps. Approximately 95% dimming. |
| Varilight    | Eclique (JDQH01S)       | 400W          | 2 to 15 lamps. Approximately 75% dimming. |
| Varilight    | V-Dim                   | 400W          | 2 to 15 lamps. Approximately 60% dimming. |
| Varilight    | V-Pro                   | 100W LED      | 1 to 15 lamps. Approximately 95% dimming. |
| Zano         | ZGRID500                | 50W LED       | 1 to 15 lamps. Approximately 80% dimming. |
| Zano         | ZGRIDLED                | 250W LED      | 1 to 15 lamps. Approximately 95% dimming. |



4000K