

100 PRO

23W / 17W LED MODULE

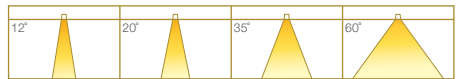
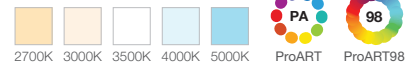
100 Pro 23W is formerly known as 100 Pro
100 Pro 17W is formerly known as 100 Classic



AVAILABLE OPTIONS

LED MODULE

SINGLE CCT



DRIVER DIMMING



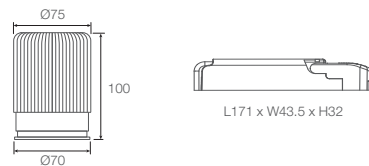
TECHNOLOGY AND FEATURES

Advanced Thermal Protection System

Low Flicker, No Risk (IEEE 1789)

Converging Optical Lens Maximising LOR

DIMENSIONS (MM)



SPECIFICATIONS

| | |
|---------------------------|---|
| Family Type | 100 Series |
| Typical Operating Voltage | 34V |
| Typical Operating Current | 670mA (100 Pro 23W), 500mA (100 Pro 17W) |
| System / Input Power | 28W (100 Pro 23W), 20.7W (100 Pro 17W) |
| Colour | Black |
| Materials | Aluminium, plastic |
| Compatibility | Compatible with ELR size-4 fixtures or most AR70 fittings, ELR size-6 fixtures or most AR111 fittings with optional mounting bracket. |
| Lifetime | 50,000 hours (80% lumen maintenance at Ta = 25°C), B10 |
| Beam Angles | 12°, 20°, 35°, 60° |
| Colour Temperatures | 2700K, 3000K, 3500K, 4000K, 5000K |
| CRI | High Efficiency ProART (CRI-95), ProART98 (CRI-98) |
| SDCM | 2 step MacAdam ellipse binning |

| | |
|---------------------|--|
| Ingress Protection | IP40 for 12° beam, IP54 for 20°/35°/60° beam (LED module only) |
| Weight | 430g (LED module), 237g (driver) |
| Dimming | Non-dim, phase (leading & trailing edge), 0-10V, DALI |
| Mains Connection | Screw terminals for convenient connection |
| Mains Voltage | 220-240V, 50Hz |
| Power Factor | >0.9 |
| Fire Safety | Glow wire test 850°C, UL94V-0, VW-1 |
| Flammability Mark | F |
| Safety Class | Class 2 |
| Standards | IEC 62031, IEC 61347-2-13 |
| Regulatory Markings | CE, CB, CCC, RCM, BIS, TIS, SIRIM-ST, RoHS |

100 PRO 23W SINGLE CCT

| Height (m) | | Emax (x) | | | |
|------------|------------|----------|-------|------|------|
| | | 12° | 20° | 35° | 60° |
| 1 | E(0°) | 16874 | 13128 | 6833 | 3601 |
| | Cone Ø (m) | 0.27 | 0.40 | 0.67 | 1.02 |
| 2 | E(0°) | 4218 | 3282 | 1708 | 900 |
| | Cone Ø (m) | 0.54 | 0.81 | 1.34 | 2.05 |
| 3 | E(0°) | 1875 | 1459 | 759 | 400 |
| | Cone Ø (m) | 0.81 | 1.21 | 2.01 | 3.07 |
| 4 | E(0°) | 1055 | 820 | 427 | 225 |
| | Cone Ø (m) | 1.08 | 1.61 | 2.68 | 4.09 |
| 5 | E(0°) | 675 | 525 | 273 | 144 |
| | Cone Ø (m) | 1.35 | 2.02 | 3.35 | 5.12 |

| ELR LED Module | | | | Luminous Flux (lm) | | | |
|----------------|-----------|--------------|-------------------------------|--------------------|------|------|------|
| Type | LED Power | System Power | CRI | 3000K | | | |
| | | | | 12° | 20° | 35° | 60° |
| 100 Pro | 23W | 28W | High Efficiency ProART CRI-95 | 3105 | 3105 | 3105 | 3105 |
| | | | ProART98 CRI-98 | 2080 | 2080 | 2080 | 2080 |
| | 17W | 20.7W | High Efficiency ProART CRI-95 | 2295 | 2295 | 2295 | 2295 |
| | | | ProART98 CRI-98 | 1538 | 1538 | 1538 | 1538 |

Data are based on 3000K (High Efficiency ProART CRI-95). Nominal data of 2700K and 3500K are shared with 3000K. Higher CCT of 4000K and 5000K will have a nominal data value of 5% higher than published. (f = 1.05) ProART98 CRI-98 will have a nominal data value of 33% lower than published. (f = 0.67)
 Nominal CRI-95, equals to Ra₉₀₋₉₇, R₉-S₀
 Nominal CRI-98, equals to Ra₉₇₋₉₉, R₉-S₃

Correction Factor: 100P 17W - f = 0.74

ORDERING MATRIX CHART

| LED Module | | | | | | | | |
|------------|-----|------------|-----|-------------|-------|-----|----------|-------|
| LED Power | | Beam Angle | | Colour Temp | | CRI | | |
| ELR100P.23 | 23W | 12 | 12° | 27 | 2700K | PA | ProART | |
| | | | 20° | | | | | |
| ELR100P.17 | 17W | 20 | 20° | 30 | 3000K | PP | ProART98 | |
| | | | 35° | | | | | |
| | | | 35 | | | | | 3500K |
| | | | 60 | | | | | 4000K |
| | | | 60° | | 40 | | | |
| | | | | | 50 | | | |
| | | | | | 5000K | | | |

example: ELR100P.23.20.40.PA

| Driver | | | | | |
|--------|--------------------------|---------|---------|--------------|-------|
| Type | | Dimming | | Output Power | |
| MP.DRA | Modular Pro ATePS Driver | ND | Non-Dim | 23 | 23W |
| | | | PH | | Phase |
| | | AN | 0-10V | | |
| | | | DA | DALI | |

example: MP.DRA.DA.23

Note: Please ensure that LED Power of LED module matches the Output Power of driver when ordering.