



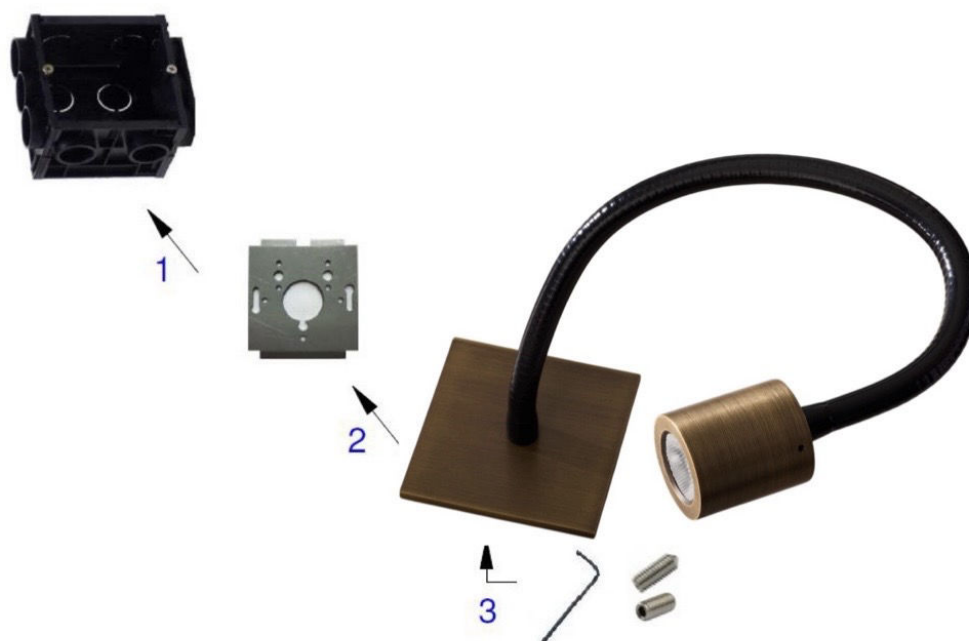
TECHNICAL FILE TIMO BEDLAMP





Assembly:

- universal built-in boxes with screws horizontal
- CJC100200 – CJC100210 = universal built-in boxes with screws horizontal
- CJC100220 – CJC100230 = Bticino 503E / Bticino 503PB
- CJC100300 – CJC100400 – CJC100500 = 3 universal built-in boxes center distance 71mm.





PowerEmitter XP and XML

Built-in PCB lighting modules

Thanks to the use of highly efficient LEDs, PowerEmitter modules guarantee an extremely high lumen output of up to 731 lm at max. 1050 mA.

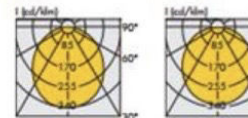
The modules can be safely operated with various constant-current converters (350 mA, 500 mA, 700 mA, 1050 mA). Sufficient cooling must be ensured.

Cables have to be soldered onto the solder pads of PowerEmitter modules, which are available in white, neutral white and warm white, to enable terminal connections to be made.



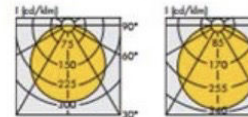
Typical applications

- Integration in luminaires
- Architectural lighting
- Marking paths, stairs, etc.
- Furniture lighting
- Light advertising
- Entertainment, retail lighting



XP-C

XP-E



XP-G

XML

Technical notes

PCB diameter: 30 mm

Allowed operating temperature at t_c point:

-20 to 60 °C for luminaires PowerEmitter XP

-20 to 65 °C for luminaires PowerEmitter XML

Use of external LED constant current driver

FR4-PCB with thermal ducts (PowerEmitter XP)

or aluminium PCB (PowerEmitter XML)

for optimum thermal management

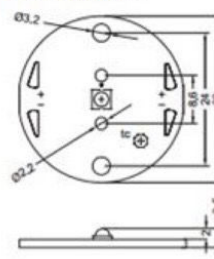
Efficiency up to 132 lm/W

Colour rendering index: white $R_a = 75$, warm white $R_a = 80$

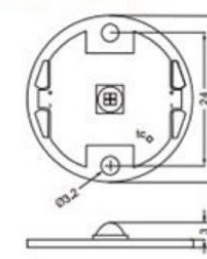
ESD protection class 2

Minimum order quantity: 144 pcs.

PowerEmitter XP



PowerEmitter XML



LED-type:

| Type | Ref. No. | Colour | Correlated colour temperature* K | Luminous flux* (lm), voltage (U) and power consumption (P _{all}) | | | | | | | | Beam angle ° | |
|--------------------------|----------|---------------|-------------------------------------|--|-------|--|-------|--|-------------|--|-------------|-----------------|--|
| | | | | 350 mA | | 500 mA | | 700 mA | | 1050 mA | | | |
| | | | | min. | typ. | min. | typ. | min. | typ. | min. | typ. | | |
| PowerEmitter XP-C | | | | P _{all} = 1.19-1.37 W U = 3.4-3.9 V | | P _{all} = 1.75-2 W U = 3.5-4 V | | | | | | | |
| WUM-421-XP-C-WW | 546676 | warm white | 2870...3200 | 67.2 | 80.6 | 87.4 | 104.8 | not allowed | not allowed | not allowed | not allowed | 110 | |
| WUM-421-XP-C-NW | 546671 | neutral white | 3700...4260 | 73.9 | 87.4 | 96.1 | 113.6 | not allowed | not allowed | not allowed | not allowed | 110 | |
| WUM-421-XP-C-CW | 546673 | cool white | 5650...6950 | 100.0 | 114.0 | 130.0 | 148.2 | not allowed | not allowed | not allowed | not allowed | 110 | |
| PowerEmitter XP-E | | | | P _{all} = 1.12-1.37 W U = 3.2-3.9 V | | P _{all} = 1.65-2 W U = 3.3-4 V | | P _{all} = 2.38-2.87 W U = 3.4-4.1 V | | | | | |
| WUM-421-XP-E-WW | 546684 | warm white | 2870...3200 | 80.6 | 93.9 | 104.8 | 122.1 | 137.0 | 159.6 | not allowed | not allowed | 115 | |
| WUM-421-XP-E-NW | 546685 | neutral white | 3700...4260 | 93.9 | 107.0 | 122.1 | 139.1 | 159.6 | 181.9 | not allowed | not allowed | 115 | |
| WUM-421-XP-E-CW | 546680 | cool white | 5650...6950 | 107.0 | 122.0 | 139.1 | 158.6 | 181.9 | 207.4 | not allowed | not allowed | 115 | |
| PowerEmitter XP-G | | | | P _{all} = 1.05-1.31 W U = 3-3.75 V | | P _{all} = 1.55-1.93 W U = 3.1-3.85 V | | P _{all} = 2.24-2.77 W U = 3.2-3.95 V | | P _{all} = 3.47-4.25 W U = 3.3-4.05 V | | | |
| WUM-421-XP-G-WW | 546688 | warm white | 2870...3200 | 100.0 | 114.0 | 140.0 | 159.6 | 180.0 | 205.2 | 250.0 | 250.0 | 125 | |
| WUM-421-XP-G-NW | 546687 | neutral white | 3700...4260 | 107.0 | 122.0 | 149.8 | 170.8 | 192.6 | 219.6 | 267.5 | 267.5 | 125 | |
| WUM-421-XP-G-CW | 546686 | cool white | 5300...7050 | 122.0 | 139.0 | 170.8 | 194.6 | 219.6 | 250.2 | 305.0 | 347.5 | 125 | |

Emission data at $t_c = 25$ °C | * Production tolerance of luminous flux: $\pm 7\%$
Suitable thermal tapes for these LED modules see page 90.



LED-driver:



Input voltage: 100-240VAC 50/60Hz

Constant Current: DC350mA 0.5V-10V

Constant voltage : DC6V I \leq 300mA

Rated Loading (W): 3 x 1W

Dimension: 38 x 26,4 x 21