

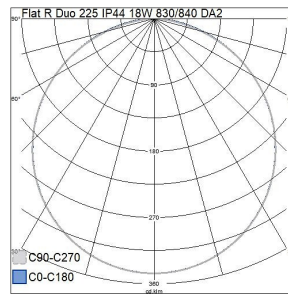


Flat R Duo

225 IP44 18W 830/840 DA2 WH

The Flat R Duo downlight with changeable colour temperature can be mounted in a low ceiling structure. Made of high-quality materials and with a good looking finish, this luminaire is versatile as a general luminaire for the home. While IP44 rated, this luminaire is also particularly suitable for bathrooms and other wet spaces. The luminaire has a matt body in structured aluminum and a diffuser in opal acrylic. All models are dimmable. The luminaire can also be linked.

Flat R Duo Downlight 18W 3000K/4000K 1500lm Beam angle Open beam; Dim DALI-2; IP44; IK03; Protection cl. II; L70B50 80000h; LED not exchangeable; Lamp included; CRI>80; SDCM6; Suitable for through wiring; 5x2.5mm²; Housing al; Colour wh; Cover Plastic, opal; C16 max. 73



| 225 IP44 18W 830/840 DA2 WH | | | |
|-----------------------------|-------------|------|----------------|
| PRODUCT CODE | CODE | KG | PRODUCT FAMILY |
| A2FDUC-DALI | A2FDUC-DALI | 0.53 | Flat R Duo |

| Mounting | |
|--|-----------------------------|
| Suitable for surface mounting | No |
| Suitable for recessed mounting | Yes |
| Suitable for wall mounting | No |
| Suitable for suspended mounting | No |
| Suitable for ceiling mounting | Yes |
| Suitable for traverse mounting | No |
| Suitable for pedestal/floor mounting | No |
| Suitable for light-track mounting | No |
| Suitable for clamp-mounting | No |
| Suitable for low voltage cable system | No |
| Degree of protection (IP) | IP44 |
| Degree of protection (IP), rear side | IP20 |
| Degree of protection (IP), front side | IP44 |
| Impact strength | IK03 |
| Emergency function monitoring system | None |
| Type of wiring | Suitable for through wiring |
| Number of poles | 5 |
| Conductor cross section (mm ²) | 2.5 |
| Connectable conductor cross section (min) (mm ²) | 1.5 |
| Connectable conductor cross section (max) (mm ²) | 2.5 |
| Connection type | Screwless terminal |
| Luminaire with limited surface temperature, class "D" in acc. with EN 60598-2-24 | No |
| Max. number of luminaires per miniature circuit breaker B16 | 49 |
| Max. number of luminaires per miniature circuit breaker C16 | 73 |
| Fit for workplace acc. EN 12464-1 | No |
| Luminaire may be covered with thermally insulating material | No |
| Quantity of luminaires for MCB C16: | 73 |
| Quantity of luminaires for MCB C10: | 46 |
| Quantity of luminaires for MCB B16: | 49 |
| Quantity of luminaires for MCB B10: | 30 |
| Structure | |
| Adjustability | Not adjustable |
| Lamp type | LED not exchangeable |
| Light source included | Yes |
| Suitable for number of lamps | 1 |
| Lamp holder | Other |
| Housing material | Aluminium |
| Surface protection | Powder coating |
| Housing colour | White |
| Cover material | Plastic, opal |
| Surface brushed | No |
| Control gear included | Yes |
| Exchangeable control gear | Yes |
| Reflector | None |
| Energy efficiency class of light source according to EU regulation 2019/2015 | G |
| Containing product according to 2019/2020/EU | Yes |
| Emergency power supply system | None |
| Emergency power supply integrated | No |
| Filament test according to IEC 60695-2-11 | 650 °C - 30 s |

| Dimming and control | |
|---|-----|
| With movement sensor | No |
| With presence indicator | No |
| With light sensor | No |
| Dimmable | Yes |
| Dimming 0-10 V | No |
| Dimming 1-10 V | No |
| Dimming DALI-2 | Yes |
| Dimming DALI | Yes |
| Dimming DMX | No |
| Dimming DSI | No |
| Dimming potentiometer (integrated) | No |
| Dimming LineSwitch | No |
| Dimming manufacturer's proprietary system | No |
| Dimming mains voltage modulation | No |
| Dimming trailing edge | No |
| Dimming leading edge | No |
| Dimming programmable | Yes |
| Dimming RF | No |
| Dimming Sine Wave Reduction | No |
| Dimming Touch and Dim | No |
| Dimming Zigbee | No |
| Dimming with push-button | Yes |
| No dimming function | No |
| Constant luminous flux control | No |
| IFTTT support available | No |
| Compatible with Apple HomeKit | No |
| Bluetooth operated | No |
| Compatible with Google Assistant | No |
| Compatible with Casambi | No |
| Compatible with Amazon Alexa | No |

| Photometric data | |
|---|---------------------------|
| Light distributor | Diffuser lens/optic/panel |
| Light sharing | Symmetric |
| Beam angle | Open beam |
| Light outlet | Direct |
| Colour of light (alphanumeric) | White |
| Colour temperature (min) (K) | 3000 |
| Colour temperature (max) (K) | 4000 |
| Colour temperature switchable | Discrete positions |
| Colour rendering index (CRI/Ra) | 80-89 |
| Luminous flux (min) (lm) | 1500 |
| Luminous flux (max) (lm) | 1500 |
| Effective luminous flux (lm) | 1500 |
| Rated luminous flux according to IEC 62722-2-1 (min) (lm) | 1500 |
| Rated luminous flux according to IEC 62722-2-1 (max) (lm) | 1500 |
| Lumen setting adjustable | No |
| Flickering value Pst LM | 1 |
| Beam angle adjustable | No |
| Stroboscope effect value SVM | 0.4 |
| Photobiological safety according to EN 62471 | RG1 |
| Colour consistency (McAdam ellipse) | SDCM6 |
| Unified Glare Rating (UGR) | 22 |

| Lifetime and capacity | |
|---|-------|
| Rated life time L70/B50 at 25 °C (h) | 80000 |
| Rated life time L80/B50 at 25 °C | 50000 |
| Lumen maintenance at median useful life of 35,000 hrs at 25 °C ambient (tq) (%) | 80 |
| Lumen maintenance at median useful life of 50,000 hrs at 25 °C ambient (tq) (%) | 70 |
| Failure rate at median useful life of 35,000 hrs at 25 °C ambient (tq) (%) | 5 |
| Failure rate at median useful life of 50,000 hrs at 25 °C ambient (tq) (%) | 10 |
| Rated ambient temperature acc. IEC62722-2-1 (min) (°C) | 0 |
| Rated ambient temperature acc. IEC62722-2-1 (max) (°C) | 25 |

| Measurements | |
|--------------------------------|------|
| Length (mm) | 225 |
| Width (mm) | 225 |
| Height/depth (mm) | 22 |
| Outer diameter (mm) | 225 |
| Built-in height/depth (mm) | 43 |
| Installation height (min) (mm) | 2000 |
| Installation height (max) (mm) | 5000 |
| Recess diameter (min) (mm) | 205 |
| Recess diameter (max) (mm) | 210 |

| Electrotechnical data | |
|---|---|
| Voltage type | AC |
| Nominal voltage (min) (V) | 220 |
| Nominal voltage (max) (V) | 240 |
| Nominal current (min) (mA) | 300 |
| Nominal current (max) (mA) | 300 |
| Type of control gear | LED operating device current-controlled |
| Total harmonic distortion (THD) (%) | 20 |
| Total harmonic distortion | 20 |
| Protection class according to IEC 61140 | II |
| Suitable for lamp power (min) (W) | 18 |
| Suitable for lamp power (max) (W) | 18 |
| Maximum system power (W) | 18 |
| Luminaire efficacy (min) (lm/W) | 83 |
| Luminaire efficacy (max) (lm/W) | 83 |
| Power factor | 0.9 |
| Luminaire efficacy (lm/W) | 83 |