



## Flat R Duo

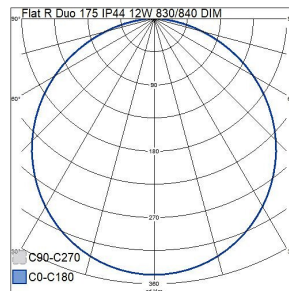
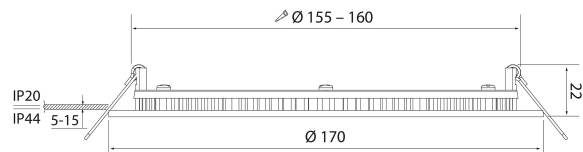
175 IP44 12W 830/840 DIM WH

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 12W 3000K/4000K 1000lm Beam angle Open beam; Dim phase cut-off; Dim phase cut-on; IP44; IK03; Protection cl. II; L70B50 50000h; LED not exchangeable; Lamp included; CRI>80; SDCM6; Suitable for through wiring; 3x2.5mm<sup>2</sup>; Housing al; Colour wh; Cover Plastic, opal; C16 max. 92

175 IP44 12W 830/840 DIM WH

PRODUCT CODE	CODE	KG	PRODUCT FAMILY
4146519	A2FDUB	0.45	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
Impact strength	IK03
Type of wiring	Suitable for through wiring
Number of poles	3
Conductor cross section (mm <sup>2</sup> )	2.5
Connectable conductor cross section (min) (mm <sup>2</sup> )	1.5
Connectable conductor cross section (max) (mm <sup>2</sup> )	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	61
Max. number of luminaires per miniature circuit breaker C16	92
Fit for workplace acc. EN 12464-1	No
Luminaire may be covered with thermally insulating material	No
Quantity of luminaires for MCB C16:	92
Quantity of luminaires for MCB C10:	57
Quantity of luminaires for MCB B16:	61
Quantity of luminaires for MCB B10:	38

Structure	
Adjustability	Not adjustable
Lamp type	LED not exchangeable
With lamp	Yes
Suitable for number of lamps	1
Lamp holder	Other
Housing material	Aluminium
Housing colour	White
Cover material	Plastic, opal
Surface brushed	No
Control gear included	Yes
Exchangeable control gear	Yes
Energy efficiency class of light source according to EU regulation 2019/2015	G
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 light sensor	No
Dimming 0-10 V	No
Dimming 1-10 V	No
Dimming DALI-2	No
Dimming DALI	No
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 phase cut-off	Yes
Dimming phase cut-on	Yes
Dimming programmable	No
Dimming RF	No
Dimming Sine Wave Reduction	No
Dimming Touch and Dim	No
Dimming Zigbee	No
Dimming with push-button	No
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 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 rendering index CRI	80-89
Luminous flux (min) (lm)	1000
Luminous flux (max) (lm)	1000
Effective luminous flux (lm)	1000
Flickering value Pst LM	1
Colour temperature switchable	No
Lumen setting adjustable	No
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)	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	
Width (mm)	170
Height/depth (mm)	22
Length (mm)	170
Outer diameter (mm)	170
Built-in height/depth (mm)	31
Recess diameter (min) (mm)	155
Recess diameter (max) (mm)	160

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
Protection class	II
Suitable for lamp power (min) (W)	12
Suitable for lamp power (max) (W)	12
Maximum system power (W)	12
Power factor	0.9
Luminaire efficacy (lm/W)	83