

## Quadro UGR16 600x600 DALI

QUADRO UGR16 600x600 DALI 4450LM 830  
0047253



### Product features

- Unique stylish recessed modular Led luminaire, ideal for general indoor lighting applications such as breakout areas, offices and meeting rooms. Steel frame with integrated reflector, passive cooling. Low glaring UGR<16. RG1, 75 degree beam angle, optical system: white painted reflector with total internal reflection lenses. Light color temperature: 3000K Warm White, total system power: 36W, total fixture output: 4450lm, efficacy: 124 lm/W, Ra80 typical, LED chromacity: 3 step MacAdam ellipse (SDCM3), lifespan: 77,000 hours at 80% of the original output (L80B20), IR/UV free light source without heat radiation, operating voltage: 220-240V / 50-60Hz, low flicker, DALI dimmable driver, electrical protection: Class I. Degree of Protection: IP40/IP20, suitable for indoor environment only. Nominal size: 595x595mm, Loop in / loop out wiring, safety cables included, 18mm nominal height, RAL 9003 - Signal white color frame, weight: 4,8Kg.



### PRODUCT OVERVIEW

Product name	QUADRO UGR16 600x600 DALI 4450LM 830
Technology	LED
Housing	Steel
Mount	Ceiling recessed mounting, Suspended
General application	Education, Office
ETIM Class	EC002892
E-number FI	4278098
Warranty	5 years
Fixture luminous flux (lm)	4450
Luminaire efficacy (lm/W)	124
LOR (%)	100
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	75
Glare control	< 16
Photobiological Risk Group	RG1
Max load (A)	0.23
Total power consumption (W)	36
Electrical protection	Class I
Control gear type	Electronic ballast
Dimmable	Yes
Dimming method	DALI
Minimum dimming level (%)	1
LED Flickering Rate	Ultra low (5% or less)
Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK08
Product EAN number	5410288472539

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### DATA TABLE

#### General data

Product name	QUADRO UGR16 600x600 DALI 4450LM 830
Technology	LED
Housing	Steel
Mount	Ceiling recessed mounting, Suspended
General application	Education, Office
Operating temperature range (°C)	-10°C...+50°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC002892
E-number FI	4278098
Warranty	5 years

#### Optical data

Fixture luminous flux (lm)	4450
Luminaire efficacy (lm/W)	124
LOR (%)	100
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	75
Distribution type	Symmetric
Glare control	< 16
Photobiological Risk Group	RG1
Lumen maintenance at end of nominal life (%)	70

#### Electrical data

Max load (A)	0.23
Total power consumption (W)	36
Mains voltage (V)	220-240V
Lamp power factor	0.95
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	9.0
Electrical protection	Class I
Control gear required	No
Control gear type	Electronic ballast
No. Of switching cycles before premature failures	>100000
Transformer required	No
Dimmable	Yes
Dimming method	DALI
Minimum dimming level (%)	1
Drive current (mA)	155
Inrush Current (A)	40
Inrush Duration (µs)	150

## Quadro UGR16 600x600 DALI

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Glow Wire Test (°C)	650
Energy Efficiency Class (A->G) of contained light source	E
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	38
Max. Luminaires per 13A C Breaker	48
Max. Luminaires per 16A C Breaker	60
Max. Luminaires per 20A C Breaker	75
Max. Luminaires per 10A B Breaker	32
Max. Luminaires per 13A B Breaker	41
Max. Luminaires per 16A B Breaker	52
Max. Luminaires per 20A B Breaker	64

### Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B20	77000

### Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK08
Diffuser material	None
Nominal Product Length (mm)	595
Nominal Product Width (mm)	595
Nominal Product Height (mm)	18.8
Weight (kg)	3.706
Recessed Depth (mm)	60

### Packaging

Single packaging type	Carton
Product EAN number	5410288472539
Packaging single length / height (cm)	60.5
Packaging single width (cm)	2.8
Packaging single depth (cm)	66.3
DUN14 (outer)	15410288472536
Units per outer package	1
Packaging outer length / height (cm)	60.5
Packaging outer width (cm)	2.8
Packaging outer depth (cm)	66.3

### Safety data

Optimal operating condition (°C)	-10-50
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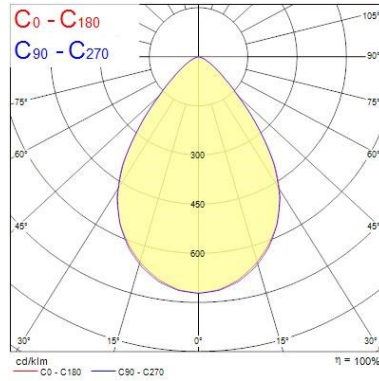
## PHOTOMETRY

## Quadro UGR16 600x600 DALI QUADRO UGR16 600x600 DALI 4450LM 830 0047253

0.5	0.74 0.75	E(0°) E(C90) E(C0)	12787 3311 3312
1.0	1.49 1.49	E(0°) E(C90) E(C0)	3197 829 829
1.5	2.23 2.24	E(0°) E(C90) E(C0)	1421 369 368
2.0	2.97 2.98	E(0°) E(C90) E(C0)	799 207 207
2.5	3.71 3.73	E(0°) E(C90) E(C0)	511 133 132
3.0	4.46 4.47	E(0°) E(C90) E(C0)	355 84 82

Distance [m]      Cone diameter [m]      Illuminance [lx]

— C0 - C180 (Half beam angle: 73.4°)  
 — C90 - C270 (Half beam angle: 73.2°)



### TECHNICAL DRAWINGS

