

## Quadro UGR16 600x600 DALI

QUADRO UGR16 600x600 DALI 4600LM 840  
0047252



### 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: 4000K Neutral White, total system power: 36W, total fixture output: 4600lm, efficacy: 128 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 4600LM 840
Technology	LED
Housing	Steel
Mount	Ceiling recessed mounting, Suspended
General application	Education, Office
ETIM Class	EC002892
E-number FI	4278097
Warranty	5 years
Fixture luminous flux (lm)	4600
Luminaire efficacy (lm/W)	128
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral 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	5410288472522

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### DATA TABLE

#### General data

Product name	QUADRO UGR16 600x600 DALI 4600LM 840
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	4278097
Warranty	5 years

#### Optical data

Fixture luminous flux (lm)	4600
Luminaire efficacy (lm/W)	128
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral 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

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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)	3.314
Recessed Depth (mm)	60

### Packaging

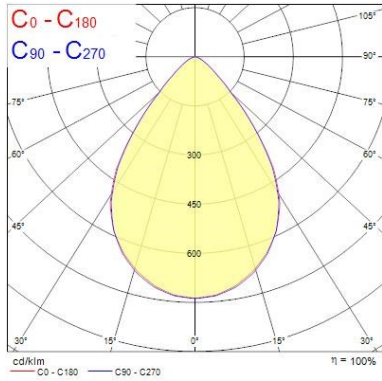
Single packaging type	Carton
Product EAN number	5410288472522
Packaging single length / height (cm)	60.0
Packaging single width (cm)	3.2
Packaging single depth (cm)	65.7
DUN14 (outer)	15410288472529
Units per outer package	4
Packaging outer length / height (cm)	62.5
Packaging outer width (cm)	15.3
Packaging outer depth (cm)	68.2

### Safety data

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

## Quadro UGR16 600x600 DALI QUADRO UGR16 600x600 DALI 4600LM 840 0047252



Distance [m]	Cone diameter [m]	E <sub>0</sub> ' [lx]	E <sub>10</sub> ' [lx]	E <sub>50</sub> ' [lx]
0.5	0.74 0.75	15466	3524	3504
1.0	1.48 1.49	3374	881	679
1.5	2.22 2.24	1500	392	309
2.0	2.96 2.98	844	232	219
2.5	3.70 3.73	540	141	142
3.0	4.44 4.47	375	98	97

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 — C0 - C180 (Half beam angle: 73.4°)      — C90 - C270 (Half beam angle: 73.0°)

### TECHNICAL DRAWINGS

