

## 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                |

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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 |
|----------------------------------|--------|

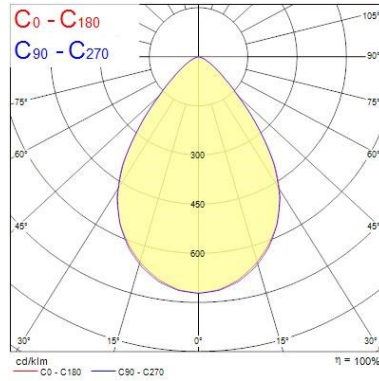
## PHOTOMETRY

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

|     |              |                          |                       |
|-----|--------------|--------------------------|-----------------------|
| 0.5 | 0.74<br>0.75 | E(0°)<br>E(C90)<br>E(C0) | 12787<br>3311<br>3312 |
| 1.0 | 1.49<br>1.49 | E(0°)<br>E(C90)<br>E(C0) | 3197<br>829<br>829    |
| 1.5 | 2.23<br>2.24 | E(0°)<br>E(C90)<br>E(C0) | 1421<br>369<br>368    |
| 2.0 | 2.97<br>2.98 | E(0°)<br>E(C90)<br>E(C0) | 799<br>207<br>207     |
| 2.5 | 3.71<br>3.73 | E(0°)<br>E(C90)<br>E(C0) | 511<br>133<br>132     |
| 3.0 | 4.46<br>4.47 | E(0°)<br>E(C90)<br>E(C0) | 386<br>94<br>92       |

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

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



### TECHNICAL DRAWINGS

