

**Product configuration: Q937**

Product code

### Technical description

## Installation

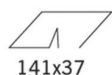
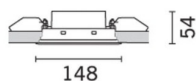
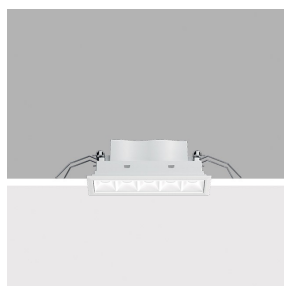
## Colour

Weight (Kg)

## Mounting

## Wiring

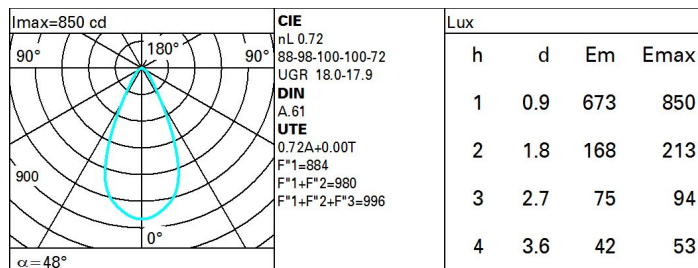
Complies with EN60598-1 and pertinent regulations



## Technical data

|  |      |  |   |
|--|------|--|---|
| Im system:   | 619  | Life Time LED 1:   | 50,000h - L90 - B10 (Ta 25°C)   |
| W system:  | 13   | Lamp code:   | LED   |
| Im source:   | 860  | Number of lamps for optical assembly:                                    | 1   |
| W source:  | 10   | ZVEI Code:   | LED   |
| Luminous efficiency (Im/W, real value):            | 47.6 | Number of optical assemblies:  | 1   |
| Im in emergency mode:                              | -    | Power factor:  | See installation instructions   |
| Total light flux at or above an angle of 90° [Lm]: | 0    | Inrush current:  | 20 A / 50 µs  |
| Light Output Ratio (L.O.R.) [%]:                   | 72   | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 50 luminaires<br>B16A: 80 luminaires<br>C10A: 83 luminaires<br>C16A: 136 luminaires |
| CRI (minimum):                                     | 95   | Minimum dimming %:   | 1   |
| CRI (typical):                                     | 97   | Overvoltage protection:  | 2kV Common mode & 2kV Differential mode   |
| Colour temperature [K]:                            | 2700 | Control:   | DALI-2  |
| MacAdam Step:                                      | 3    |  |   |

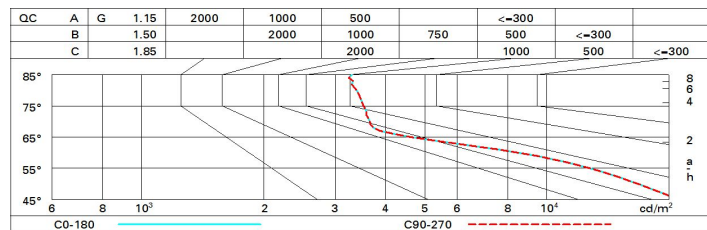
## Polar



# Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 61 | 57 | 54 | 52 | 56 | 53 | 53 | 50 | 70  |
| 1.0  | 65 | 61 | 58 | 56 | 60 | 57 | 57 | 54 | 75  |
| 1.5  | 69 | 66 | 64 | 62 | 65 | 63 | 62 | 60 | 83  |
| 2.0  | 72 | 69 | 68 | 66 | 68 | 67 | 66 | 64 | 88  |
| 2.5  | 73 | 72 | 70 | 69 | 70 | 69 | 68 | 66 | 92  |
| 3.0  | 74 | 73 | 72 | 71 | 72 | 71 | 70 | 68 | 94  |
| 4.0  | 75 | 74 | 74 | 73 | 73 | 72 | 71 | 69 | 96  |
| 5.0  | 76 | 75 | 74 | 74 | 74 | 73 | 72 | 70 | 97  |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 800 lm bare lamp luminous flux)         |      |                     |      |      |      |      |                   |      |      |      |      |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling/cav<br>walls<br>work pl.<br>Room dim<br>x y |      | 0.70                | 0.70 | 0.50 | 0.50 | 0.30 | 0.70              | 0.70 | 0.50 | 0.50 | 0.30 |
|  |      | 0.50                | 0.30 | 0.50 | 0.30 | 0.30 | 0.50              | 0.30 | 0.50 | 0.30 | 0.30 |
|  |      | 0.20                | 0.20 | 0.20 | 0.20 | 0.20 | 0.20              | 0.20 | 0.20 | 0.20 | 0.20 |
|  |      | viewed<br>crosswise |      |      |      |      | viewed<br>endwise |      |      |      |      |
| 2H   | 2H   | 17.8                | 18.5 | 18.1 | 18.7 | 18.9 | 17.8              | 18.5 | 18.1 | 18.7 | 18.9 |
|  | 3H   | 17.8                | 18.4 | 18.1 | 18.7 | 19.0 | 17.8              | 18.4 | 18.1 | 18.7 | 19.0 |
|  | 4H   | 17.8                | 18.4 | 18.2 | 18.7 | 19.0 | 17.8              | 18.4 | 18.1 | 18.7 | 19.0 |
|  | 6H   | 17.8                | 18.4 | 18.2 | 18.7 | 19.0 | 17.7              | 18.2 | 18.1 | 18.6 | 18.9 |
|  | 8H   | 17.9                | 18.4 | 18.2 | 18.7 | 19.0 | 17.7              | 18.2 | 18.1 | 18.5 | 18.9 |
|  | 12H  | 17.8                | 18.3 | 18.2 | 18.7 | 19.0 | 17.7              | 18.1 | 18.0 | 18.5 | 18.8 |
| 4H   | 2H   | 17.8                | 18.4 | 18.1 | 18.7 | 19.0 | 17.8              | 18.4 | 18.2 | 18.7 | 19.0 |
|  | 3H   | 17.9                | 18.4 | 18.3 | 18.7 | 19.1 | 17.9              | 18.4 | 18.3 | 18.8 | 19.1 |
|  | 4H   | 17.9                | 18.4 | 18.3 | 18.7 | 19.1 | 17.9              | 18.4 | 18.3 | 18.7 | 19.1 |
|  | 6H   | 18.0                | 18.4 | 18.4 | 18.8 | 19.2 | 17.9              | 18.3 | 18.3 | 18.7 | 19.1 |
|  | 8H   | 18.0                | 18.4 | 18.5 | 18.8 | 19.2 | 17.9              | 18.2 | 18.3 | 18.6 | 19.1 |
|  | 12H  | 18.0                | 18.3 | 18.5 | 18.8 | 19.2 | 17.8              | 18.2 | 18.3 | 18.6 | 19.0 |
| 8H   | 4H   | 17.9                | 18.2 | 18.3 | 18.6 | 19.1 | 18.0              | 18.4 | 18.5 | 18.8 | 19.2 |
|  | 6H   | 18.0                | 18.3 | 18.5 | 18.7 | 19.2 | 18.0              | 18.3 | 18.5 | 18.8 | 19.2 |
|  | 8H   | 18.0                | 18.3 | 18.5 | 18.8 | 19.2 | 18.0              | 18.3 | 18.5 | 18.8 | 19.2 |
|  | 12H  | 18.1                | 18.3 | 18.6 | 18.8 | 19.3 | 18.0              | 18.2 | 18.5 | 18.7 | 19.3 |
| 12H  | 4H   | 17.8                | 18.2 | 18.3 | 18.6 | 19.0 | 18.0              | 18.3 | 18.5 | 18.8 | 19.2 |
|  | 6H   | 18.0                | 18.2 | 18.5 | 18.7 | 19.2 | 18.1              | 18.3 | 18.5 | 18.8 | 19.3 |
|  | 8H   | 18.0                | 18.2 | 18.5 | 18.7 | 19.3 | 18.1              | 18.3 | 18.6 | 18.8 | 19.3 |
| Variations with the observer position at spacing:                |      |                     |      |      |      |      |                   |      |      |      |      |
| S =  | 1.0H | 1.5 / -1.5          |      |      |      |      | 1.5 / -1.5        |      |      |      |      |
|  | 1.5H | 3.1 / -3.4          |      |      |      |      | 3.1 / -3.4        |      |      |      |      |
|  | 2.0H | 4.9 / -4.6          |      |      |      |      | 4.9 / -4.6        |      |      |      |      |