

## Frame

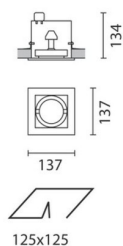
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### Product configuration: 8857+L387

8857: Small square model 1x50W 12V QR CBC 51



### Product code

8857: Small square model 1x50W 12V QR CBC 51 **Attention! Code no longer in production**

### Technical description

Downlight designed for use with 50 W dichroic lamps QR-CBC 51. It is made up of an aluminium sheet shell housing the optical assembly. The lamp is located on a die-cast aluminium ring directable through technopolymer universal joints (+/- 45° rotation with respect to the vertical and horizontal axes) - also permitting stability of the angling system. The following accessories may be installed: coloured glasses, refractor for an elliptical distribution of the light flow, and honey-comb louvre.

### Installation

Recessed fitting: the shell is fixed to the false ceiling (hole dimensions 125 x 125 mm) through adjustable brackets on sliders. The perimetric rim is used as a ledge.

### Colour

White (01) | Grey (15)

### Mounting

ceiling recessed

### Wiring

Connection to the secondary of the transformer on terminal blocks located on the upper part of the shell.

### Notes

For the photometric data of the fitting refer to the photometric data of the light sources used.

Complies with EN60598-1 and pertinent regulations



### Technical data

|  |     |                                       |       |
|--|-----|---------------------------------------|-------|
| Im system:   | 660 | CRI:                                  | 80    |
| W system:  | 10  | Colour temperature [K]:               | 3000  |
| Im source:   | 660 | Ballast losses [W]:                   | 2     |
| W source:  | 8   | Voltage [Vin]:                        | 12    |
| Luminous efficiency (Im/W, real value):            | 66  | Lamp code:                            | LED   |
| Im in emergency mode:                              | -   | Socket:                               | GU5,3 |
| Total light flux at or above an angle of 90° [Lm]: | 0   | Number of lamps for optical assembly: | 1     |
| Light Output Ratio (L.O.R.) [%]:                   | 100 | ZVEI Code:                            | LED   |
| Beam angle [°]:                                    | 32° | Number of optical assemblies:         | 1     |

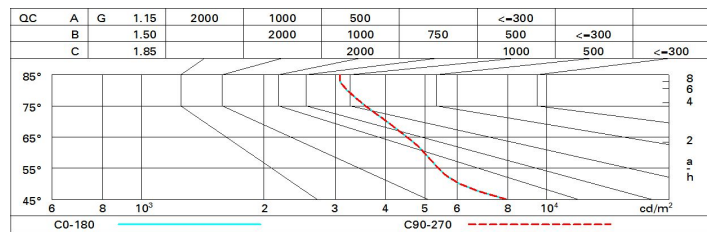
### Polar

|  |   |     |     |                  |
|--|---|-----|-----|------------------|
|  | <b>CIE</b><br>nL 1.00<br>94-98-100-100-100<br>UGR 15.0-14.7<br><b>DIN</b><br>A.61<br><b>UTE</b><br>1.00A+0.00T<br>F*1=939<br>F*1+F*2=980<br>F*1+F*2+F*3=996 |     |     |                  |
|  | <b>Lux</b>  |     |     |                  |
|  | h   | d   | Em  | E <sub>max</sub> |
|  | 2   | 1.1 | 348 | 443              |
|  | 4   | 2.3 | 87  | 111              |
|  | 6   | 3.4 | 39  | 49               |
|  | 8   | 4.6 | 22  | 28               |

# Utilisation factors

| R    | 77  | 75  | 73  | 71  | 55  | 53  | 33  | 00 | DRR |
|------|-----|-----|-----|-----|-----|-----|-----|----|-----|
| K0.8 | 88  | 82  | 79  | 76  | 81  | 78  | 77  | 74 | 74  |
| 1.0  | 92  | 87  | 84  | 81  | 86  | 83  | 82  | 79 | 79  |
| 1.5  | 97  | 93  | 91  | 88  | 92  | 90  | 89  | 85 | 85  |
| 2.0  | 101 | 98  | 96  | 94  | 96  | 94  | 93  | 90 | 90  |
| 2.5  | 103 | 101 | 99  | 97  | 99  | 97  | 96  | 93 | 93  |
| 3.0  | 104 | 103 | 101 | 100 | 101 | 100 | 98  | 96 | 96  |
| 4.0  | 105 | 104 | 103 | 102 | 103 | 102 | 100 | 98 | 98  |
| 5.0  | 106 | 105 | 105 | 104 | 104 | 103 | 101 | 99 | 99  |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 600 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  | 13.3                | 14.0 | 13.6 | 14.2 | 14.4 | 13.3              | 14.0 | 13.6 | 14.2 | 14.4 |
|  | 3H  | 13.9                | 14.5 | 14.2 | 14.7 | 15.0 | 13.5              | 14.0 | 13.8 | 14.3 | 14.6 |
|  | 4H  | 14.1                | 14.7 | 14.5 | 15.0 | 15.3 | 13.5              | 14.0 | 13.9 | 14.3 | 14.6 |
|  | 6H  | 14.3                | 14.8 | 14.7 | 15.1 | 15.5 | 13.5              | 14.0 | 13.9 | 14.3 | 14.6 |
|  | 8H  | 14.4                | 14.9 | 14.8 | 15.2 | 15.5 | 13.5              | 14.0 | 13.9 | 14.3 | 14.6 |
|  | 12H | 14.4                | 14.9 | 14.8 | 15.2 | 15.6 | 13.5              | 13.9 | 13.8 | 14.2 | 14.6 |
| 4H   | 2H  | 13.5                | 14.0 | 13.9 | 14.3 | 14.6 | 14.1              | 14.7 | 14.5 | 15.0 | 15.3 |
|  | 3H  | 14.3                | 14.7 | 14.7 | 15.1 | 15.4 | 14.5              | 14.9 | 14.8 | 15.3 | 15.6 |
|  | 4H  | 14.6                | 15.0 | 15.0 | 15.4 | 15.8 | 14.6              | 15.0 | 15.0 | 15.4 | 15.8 |
|  | 6H  | 14.9                | 15.2 | 15.3 | 15.6 | 16.1 | 14.7              | 15.0 | 15.1 | 15.4 | 15.9 |
|  | 8H  | 15.0                | 15.3 | 15.4 | 15.7 | 16.2 | 14.7              | 15.0 | 15.1 | 15.4 | 15.9 |
|  | 12H | 15.1                | 15.4 | 15.5 | 15.8 | 16.2 | 14.7              | 15.0 | 15.1 | 15.4 | 15.9 |
| 8H   | 4H  | 14.7                | 15.0 | 15.1 | 15.4 | 15.9 | 15.0              | 15.3 | 15.4 | 15.7 | 16.2 |
|  | 6H  | 15.1                | 15.4 | 15.6 | 15.8 | 16.3 | 15.2              | 15.4 | 15.6 | 15.9 | 16.4 |
|  | 8H  | 15.2                | 15.5 | 15.7 | 15.9 | 16.4 | 15.2              | 15.5 | 15.7 | 15.9 | 16.4 |
|  | 12H | -7.6                | -7.5 | -7.1 | -7.1 | -6.5 | -7.7              | -7.6 | -7.2 | -7.2 | -6.6 |
| 12H  | 4H  | 14.7                | 15.0 | 15.1 | 15.4 | 15.9 | 15.1              | 15.4 | 15.5 | 15.8 | 16.2 |
|  | 6H  | 15.1                | 15.3 | 15.6 | 15.8 | 16.3 | 15.3              | 15.5 | 15.8 | 16.0 | 16.5 |
|  | 8H  | -7.7                | -7.6 | -7.2 | -7.2 | -6.6 | -7.6              | -7.5 | -7.1 | -7.1 | -6.5 |
| Variations with the observer position at spacing:                |     |                     |      |      |      |      |                   |      |      |      |      |
| S =  |     | 1.0H                | 1.9  | /    | -1.0 |      | 1.9               | /    | -1.0 |      |      |
|  |     | 1.5H                |      |      | 3.7  | /    | -1.4              |      | 3.7  | /    | -1.4 |
|  |     | 2.0H                |      |      | 5.3  | /    | -1.7              |      | 5.3  | /    | -1.7 |