

Last information update: January 2025

**Product configuration: RR20**

RR20: Dimmable electronic Ø102mm DALI body - Wide Flood optic - Warm White



**Product code**

RR20: Dimmable electronic Ø102mm DALI body - Wide Flood optic - Warm White

**Technical description**

Adjustable spotlight with adapter for installation on an electrified track or base. High chromatic yield LED lamp with Warm White (3000K) tone and OptiBeam Lens optic system and Wide Flood optic. Dimmable electronic DALI power supply integrated in product. Luminaire made of die-cast aluminium and thermoplastic material that allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane with mechanical aiming locks. Passive heat dissipation. Spotlight with "Push&Go" system designed to hold up to two flat accessories at the same time. The same system can also be used to apply another external component selected from the directional flaps and anti-glare screen. All internal accessories rotate 360° about the spotlight longitudinal axis.

**Installation**

Installation on an electrified track or base.

**Colour**

White (01) | Black (04)

**Weight (Kg)**

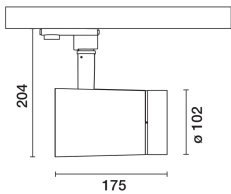
1.33

**Mounting**

wall surface|ceiling surface

**Wiring**

Electronic components integrated in product.



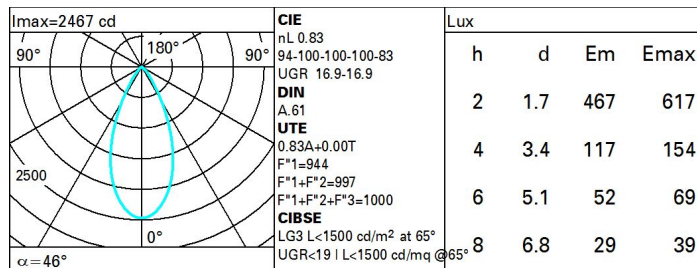
Complies with EN60598-1 and pertinent regulations



**Technical data**

|  |      |                                       |                                 |
|--|------|---------------------------------------|---------------------------------|
| Im system:   | 1544 | CRI (minimum):                        | 97                              |
| W system:  | 19.9 | Colour temperature [K]:               | 3000                            |
| Im source:   | 1860 | MacAdam Step:                         | 2                               |
| W source:  | 18   | Life Time LED 1:                      | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value):            | 77.6 | Lamp code:                            | LED                             |
| Im in emergency mode:                              | -    | Number of lamps for optical assembly: | 1                               |
| Total light flux at or above an angle of 90° [Lm]: | 0    | ZVEI Code:                            | LED                             |
| Light Output Ratio (L.O.R.) [%]:                   | 83   | Number of optical assemblies:         | 1                               |
| Beam angle [°]:                                    | 46°  | Control:                              | DALI-2                          |

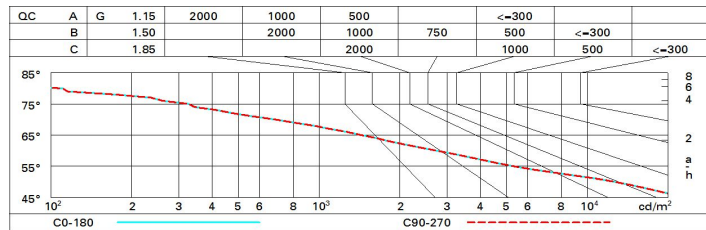
**Polar**



Utilisation factors

|      |    |    |    |    |    |    |    |    |     |
|------|----|----|----|----|----|----|----|----|-----|
| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
| K0.8 | 73 | 68 | 65 | 63 | 68 | 65 | 65 | 62 | 74  |
| 1.0  | 76 | 73 | 70 | 68 | 72 | 69 | 69 | 66 | 79  |
| 1.5  | 81 | 78 | 76 | 74 | 77 | 75 | 74 | 72 | 86  |
| 2.0  | 84 | 82 | 80 | 78 | 80 | 79 | 78 | 76 | 91  |
| 2.5  | 85 | 84 | 82 | 81 | 83 | 81 | 80 | 78 | 94  |
| 3.0  | 87 | 85 | 84 | 83 | 84 | 83 | 82 | 80 | 96  |
| 4.0  | 88 | 87 | 86 | 85 | 85 | 85 | 83 | 81 | 98  |
| 5.0  | 88 | 88 | 87 | 87 | 86 | 86 | 84 | 82 | 99  |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1860 lm bare lamp luminous flux) |      |                  |      |      |      |      |                |      |      |      |      |
|---|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.:   |      | viewed crosswise |      |      |      |      | viewed endwise |      |      |      |      |
| ceiling/cav   |      | 0.70             | 0.70 | 0.50 | 0.50 | 0.30 | 0.70           | 0.70 | 0.50 | 0.50 | 0.30 |
| walls   |      | 0.50             | 0.30 | 0.50 | 0.30 | 0.30 | 0.50           | 0.30 | 0.50 | 0.30 | 0.30 |
| work pl.  |      | 0.20             | 0.20 | 0.20 | 0.20 | 0.20 | 0.20           | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim  |      | viewed crosswise |      |      |      |      | viewed endwise |      |      |      |      |
| x   | y    |                  |      |      |      |      |                |      |      |      |      |
| 2H  | 2H   | 17.5             | 18.1 | 17.7 | 18.3 | 18.0 | 17.5           | 18.1 | 17.7 | 18.3 | 18.0 |
|   | 3H   | 17.3             | 17.9 | 17.6 | 18.2 | 18.4 | 17.3           | 17.9 | 17.7 | 18.2 | 18.4 |
|   | 4H   | 17.3             | 17.8 | 17.6 | 18.1 | 18.4 | 17.3           | 17.8 | 17.6 | 18.1 | 18.4 |
|   | 6H   | 17.2             | 17.7 | 17.5 | 18.0 | 18.3 | 17.2           | 17.7 | 17.5 | 18.0 | 18.3 |
|   | 8H   | 17.1             | 17.6 | 17.5 | 17.9 | 18.3 | 17.2           | 17.6 | 17.5 | 17.9 | 18.3 |
|   | 12H  | 17.1             | 17.5 | 17.5 | 17.9 | 18.2 | 17.1           | 17.6 | 17.5 | 17.9 | 18.3 |
| 4H  | 2H   | 17.3             | 17.8 | 17.6 | 18.1 | 18.4 | 17.3           | 17.8 | 17.6 | 18.1 | 18.4 |
|   | 3H   | 17.1             | 17.6 | 17.5 | 17.9 | 18.3 | 17.1           | 17.6 | 17.5 | 17.9 | 18.3 |
|   | 4H   | 17.0             | 17.4 | 17.4 | 17.8 | 18.2 | 17.0           | 17.4 | 17.4 | 17.8 | 18.2 |
|   | 6H   | 17.0             | 17.3 | 17.4 | 17.7 | 18.1 | 17.0           | 17.3 | 17.4 | 17.7 | 18.1 |
|   | 8H   | 16.9             | 17.2 | 17.4 | 17.6 | 18.1 | 16.9           | 17.2 | 17.4 | 17.6 | 18.1 |
|   | 12H  | 16.9             | 17.1 | 17.3 | 17.6 | 18.0 | 16.9           | 17.1 | 17.3 | 17.6 | 18.0 |
| 8H  | 4H   | 16.9             | 17.2 | 17.4 | 17.6 | 18.1 | 16.9           | 17.2 | 17.4 | 17.6 | 18.1 |
|   | 6H   | 16.8             | 17.1 | 17.3 | 17.5 | 18.0 | 16.8           | 17.1 | 17.3 | 17.5 | 18.0 |
|   | 8H   | 16.8             | 17.0 | 17.2 | 17.4 | 17.9 | 16.8           | 17.0 | 17.2 | 17.4 | 17.9 |
|   | 12H  | 16.7             | 16.9 | 17.2 | 17.4 | 17.9 | 16.7           | 16.9 | 17.2 | 17.4 | 17.9 |
| 12H   | 4H   | 16.9             | 17.1 | 17.3 | 17.6 | 18.0 | 16.9           | 17.1 | 17.3 | 17.6 | 18.0 |
|   | 6H   | 16.8             | 17.0 | 17.2 | 17.4 | 17.9 | 16.8           | 17.0 | 17.2 | 17.4 | 17.9 |
|   | 8H   | 16.7             | 16.9 | 17.2 | 17.4 | 17.9 | 16.7           | 16.9 | 17.2 | 17.4 | 17.9 |
| Variations with the observer position at spacing:         |      |                  |      |      |      |      |                |      |      |      |      |
| S =   | 1.0H | 4.1 / -8.9       |      |      |      |      | 4.1 / -8.9     |      |      |      |      |
|   | 1.5H | 6.8 / -13.9      |      |      |      |      | 6.8 / -13.9    |      |      |      |      |
|   | 2.0H | 8.8 / -17.5      |      |      |      |      | 8.8 / -17.5    |      |      |      |      |