iGuzzini

Last information update: June 2023

## **Product configuration: N191**

N191: medium body - warm white - wide flood optic



## Product code

N191: medium body - warm white - wide flood optic Attention! Code no longer in production

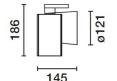
## Technical description

Adjustable spotlight with adapter for installation on mains voltage track for high-performance LED source with CoB technology, with monochromatic Warm White (3000K) emission. Product inclusive of OPTIBEAM interchangeable reflector with wide flood optic. Electronic control gear housed in the power supply box positioned vertically with respect to the optical compartment. Optical compartment made of die-cast aluminium, easily customisable thermoplastic power supply box. Features 360° rotation around the vertical axis and 90° inclination with respect to the horizontal axis. Passive cooling system. Possibility of installing a refractor, to be ordered separately, for elliptical light beam distribution.

## Installation

Mounted on electrified track or on base

| Colour                  | Weight (Kg) |
|-------------------------|-------------|
| White (01)   Black (04) | 1.26        |



## Mounting

three circuit track|ceiling surface

# Wiring

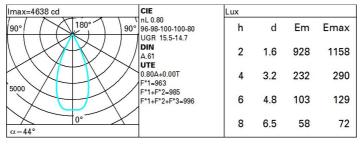
Product inclusive of electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly C€

| Technical data               |      |                             |                               |  |  |
|------------------------------|------|-----------------------------|-------------------------------|--|--|
| Im system:                   | 2397 | CRI:                        | 80                            |  |  |
| W system:                    | 31.5 | Colour temperature [K]:     | 3000                          |  |  |
| Im source:                   | 3000 | MacAdam Step:               | 3                             |  |  |
| W source:                    | 29   | Life Time LED 1:            | 50,000h - L80 - B10 (Ta 25°C) |  |  |
| Luminous efficiency (lm/W,   | 76.1 | Ballast losses [W]:         | 2.5                           |  |  |
| real value):                 |      | Lamp code:                  | LED                           |  |  |
| Im in emergency mode:        | -    | Number of lamps for optical | 1                             |  |  |
| Total light flux at or above | 0    | assembly:                   |                               |  |  |
| an angle of 90° [Lm]:        |      | ZVEI Code:                  | LED                           |  |  |
| Light Output Ratio (L.O.R.)  | 80   | Number of optical           | 1                             |  |  |
| [%]:                         |      | assemblies:                 |                               |  |  |
| Beam angle [°]:              | 44°  |                             |                               |  |  |

## Polar



# **Utilisation factors**

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 71 | 67 | 64 | 62 | 66 | 64 | 63 | 61 | 76  |
| 1.0  | 74 | 71 | 68 | 66 | 70 | 67 | 67 | 64 | 80  |
| 1.5  | 78 | 75 | 73 | 71 | 74 | 72 | 72 | 69 | 87  |
| 2.0  | 81 | 79 | 77 | 76 | 78 | 76 | 75 | 73 | 91  |
| 2.5  | 82 | 81 | 80 | 78 | 80 | 78 | 78 | 75 | 94  |
| 3.0  | 83 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 96  |
| 4.0  | 84 | 84 | 83 | 82 | 82 | 82 | 80 | 78 | 98  |
| 5.0  | 85 | 84 | 84 | 84 | 83 | 83 | 81 | 79 | 99  |

# Luminance curve limit

| QC  | Α | G | 1.15            | 2000          | 1000 | 500  |     | <=300 |       |       |
|-----|---|---|-----------------|---------------|------|------|-----|-------|-------|-------|
|     | В |   | 1.50            |               | 2000 | 1000 | 750 | 500   | <=300 |       |
|     | С |   | 1.85            |               |      | 2000 |     | 1000  | 500   | <=300 |
| 85° |   |   |                 | $\overline{}$ |      |      |     | -     |       | 8     |
| 75° |   |   |                 | $\forall$     |      |      |     | /     |       | 4     |
| 65° |   | + |                 | _             |      |      | 7   |       |       | 2     |
| 55° |   |   |                 |               |      |      | -   |       |       | - ;   |
| 45° |   | 8 | 10 <sup>3</sup> |               | 2    | 3 4  | 5 6 | 8 10  | 4     | cd/m² |
| - 6 |   |   |                 |               |      |      |     |       |       |       |

| Corre    | ected UC | GR values | at 300   | 0 Im bare | e lamp lu  | eu oni mu  | flux) |        |           |      |      |  |  |
|----------|----------|-----------|----------|-----------|------------|------------|-------|--------|-----------|------|------|--|--|
| Rifle    | ct.:     |           |          |           |            |            |       |        |           |      |      |  |  |
| ceil/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 |  |  |
| Roon     | n dim    | viewed    |          |           |            |            |       | viewed |           |      |      |  |  |
| X        | У        |           | (        | crosswis  | е          |            |       |        | endwise   | ķ.   |      |  |  |
| 2H       | 2H       | 12.1      | 12.7     | 12.4      | 13.0       | 13.2       | 12.1  | 12.7   | 12.4      | 13.0 | 13.2 |  |  |
|          | ЗН       | 13.1      | 13.6     | 13.4      | 13.9       | 14.2       | 12.3  | 12.9   | 12.6      | 13.1 | 13.  |  |  |
|          | 4H       | 13.7      | 14.2     | 14.0      | 14.5       | 14.8       | 12.4  | 12.9   | 12.7      | 13.2 | 13.  |  |  |
|          | бН       | 14.3      | 14.8     | 14.6      | 15.1       | 15.4       | 12.4  | 12.9   | 12.8      | 13.2 | 13.  |  |  |
|          | 8H       | 14.5      | 15.0     | 14.9      | 15.3       | 15.7       | 12.4  | 12.9   | 12.8      | 13.2 | 13.  |  |  |
|          | 12H      | 14.6      | 15.1     | 15.0      | 15.4       | 15.8       | 12.4  | 12.9   | 12.8      | 13.2 | 13.  |  |  |
| 4H       | 2H       | 12.4      | 12.9     | 12.7      | 13.2       | 13.5       | 13.7  | 14.2   | 14.0      | 14.5 | 14.  |  |  |
|          | ЗН       | 13.6      | 14.1     | 14.0      | 14.4       | 14.8       | 14.2  | 14.6   | 14.5      | 14.9 | 15.  |  |  |
|          | 4H       | 14.4      | 14.8     | 14.8      | 15.2       | 15.6       | 14.4  | 14.8   | 14.8      | 15.2 | 15.  |  |  |
|          | бН       | 15.2      | 15.6     | 15.7      | 16.0       | 16.4       | 14.7  | 15.0   | 15.1      | 15.4 | 15.  |  |  |
|          | 8H       | 15.5      | 15.9     | 16.0      | 16.3       | 16.7       | 14.7  | 15.1   | 15.2      | 15.5 | 15.  |  |  |
|          | 12H      | 15.7      | 16.0     | 16.2      | 16.4       | 16.9       | 14.8  | 15.1   | 15.2      | 15.5 | 16.  |  |  |
| нв       | 4H       | 14.7      | 15.1     | 15.2      | 15.5       | 15.9       | 15.5  | 15.9   | 16.0      | 16.3 | 16.  |  |  |
|          | 6H       | 15.7      | 16.0     | 16.2      | 16.4       | 16.9       | 16.0  | 16.2   | 16.4      | 16.7 | 17.  |  |  |
|          | ВН       | 16.2      | 16.4     | 16.6      | 16.8       | 17.3       | 16.2  | 16.4   | 16.6      | 16.8 | 17.  |  |  |
|          | 12H      | 16.4      | 16.6     | 16.9      | 17.1       | 17.6       | 16.3  | 16.5   | 16.8      | 17.0 | 17.  |  |  |
| 12H      | 4H       | 14.8      | 15.1     | 15.2      | 15.5       | 16.0       | 15.7  | 16.0   | 16.2      | 16.4 | 16.  |  |  |
|          | бН       | 15.8      | 16.1     | 16.3      | 16.5       | 17.0       | 16.2  | 16.4   | 16.7      | 16.9 | 17.  |  |  |
|          | Н8       | 16.3      | 16.5     | 16.8      | 17.0       | 17.5       | 16.4  | 16.6   | 16.9      | 17.1 | 17.  |  |  |
| Varia    | tions wi | th the ob | pserverp | noition a | at spacin  | g:         | 0.2   |        |           |      |      |  |  |
| S =      | 1.0H     |           | .3 / -0  | 5         | 1.3 / -0.5 |            |       |        |           |      |      |  |  |
|          | 1.5H     |           | 2        | .0- / 8.  | .7         | 2.8 / -0.7 |       |        |           |      |      |  |  |
|          | 2.0H     |           | 4        | .1 / -0.  | .7         |            |       |        | 4.1 / -0. | 7    |      |  |  |