

# TWIST 100

trimless

048-1121017S 048-2796117 002-90780



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

tilt max 45°

rotation 360°

white , RAL9016 <sup>1</sup>

Mounting set traffic white

front IP20 , back IP20

3100 lm

## LED

3000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 98 , R<sub>r</sub>: 91 , R<sub>(1-15)</sub>: 93

MR 0.54

MDER 0.49

## Optical

spot

beam angle 20°

P<sub>stLM</sub> ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

## Electrical

non DIM

system 25.3 W

inset 22.7 W

650 mA

PC2 220-240V

system 123 lm/W<sup>3</sup>

inset 136 lm/W<sup>4</sup>

## Physical

diameter 105 mm

height 99 mm

0.52 kg

## Cutout

diameter 106 mm

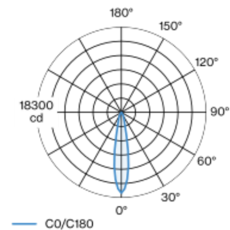
min. ceiling thickness 12.5 mm

max. ceiling thickness 25 mm

recessed depth 160 mm

<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)  
<sup>4</sup> incl. optical losses

## Light distribution



spot 20°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 17300    | 0.34  |
| 2     | 4300     | 0.69  |
| 3     | 1900     | 1.03  |
| 4     | 1100     | 1.38  |
| 5     | 700      | 1.72  |

## Product drawing



## Installation instructions



## Lighting calculator



[\*048-1121017S 048-2796117 002-90780\*] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.  
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## Maintenance Factors

| Operating Time [h] | 10 000                       | 20 000 | 30 000  | 40 000 | 50 000 |
|--------------------|------------------------------|--------|---|--------|--------|
| LLMF               | 0.977                        | 0.94   | 0.905   | 0.871  | 0.838  |
| LSF                | 1                            | 1      | 1   | 1      | 1      |
| MF                 | LMF × RSMF × LLMF × LSF      |        | RSMF <sup>a</sup> Room Surface Maintenance Factor |        |        |
| MF                 | Maintenance Factor           |        | LLMF Lamp Lumens Maintenance Factor               |        |        |
| LMF <sup>a</sup>   | Luminaire Maintenance Factor |        | LSF Lamp Survival Faktor                          |        |        |

<sup>a</sup> According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

## Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10                            | 20                 |
| B16                            | 32                 |
| C10                            | 33                 |
| C16                            | 53                 |

## Components

### MOUNTING SET trimless

| TYPE                                    | COLOUR        | Ø (MM) | ARTICLE NUMBER(S) |
|---|---------------|--------|-------------------|
| for plasterboard ceilings 12.5/15/25 mm | traffic white | 105    | 048-2796117       |



### CONVERTER

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|------|------------|-------------------|
| 31 W | 143-43-30  | 002-90780         |



## Mounting accessories

### THROUGH WIRING CONNECTION BOX

| TYPE                      | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------------------------|------------|-------------------|
| non DIM cable ø 4 – 12 mm | 105-58-30  | 005-2531110       |
| DALI cable ø 4 – 12 mm    | 105-58-30  | 005-2551110       |



## Optical accessories

### HONEYCOMB LOUVER

| Ø (MM) | ARTICLE NUMBER(S) |
|--------|-------------------|
| 75     | 080-6401118       |



## Optical accessories

### LINEAR PRISMATIC LENS

| Ø (MM) | ARTICLE NUMBER(S) |
|--------|-------------------|
| 75     | 080-6402110P      |



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## Optical accessories

### SNOOT

| TYPE   | Ø (MM) | ARTICLE NUMBER(S) |
|--------|--------|-------------------|
| short  | 66     | 080-6403118       |
| medium | 66     | 080-6403218       |
| angle  | 66     | 080-6403318       |

