

# TWIST 100

trimless

048-1121018F 048-2796117 002-90789



Project / Type

Notes

Count / Date



Round recessed spotlight in die-cast aluminium; 1 lamp; surface black powder coated; installation without tools in mounting set due to patented ball catch system; for trimless installation in plasterboard ceilings; suitable for ceiling thickness of 12.5/15/25 mm; 360° rotatable and 45° tiltable outward; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; including high quality aluminium reflector with spherical reflector; high gloss anodised; neutral colour reflection through absolute freedom from interference colour; for brilliant object staging; precise radiation characteristic with 39° beam; optical attachments available as accessories; optical attachments can be combined; degree of protection IP20; PC2; 220-240 V; incl. DALI-2 converter; through wiring connection box, 3-pole or 5-pole, available as an accessory; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



flood 39°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 6390     | 0.70  |
| 2     | 1600     | 1.40  |
| 3     | 710      | 2.10  |
| 4     | 400      | 2.80  |
| 5     | 260      | 3.50  |

## Product drawing



360°

220-240 V

## General

Ceiling | Recessed

tilt max 45°

rotation 360°

black | RAL 9005 <sup>1</sup>

Mounting set traffic white

front IP20 | back IP20

3110 lm

fixture 137 lm/W <sup>2</sup>

## LED

3000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 98 | R<sub>f</sub>: 91 | R<sub>(f-15)</sub>: 93

MR 0.54 | MDER 0.49

## Optical

flood | beam angle 39°

PstLM ≤ 1.0 <sup>3</sup> | SVM ≤ 0.4 <sup>3</sup>

## Electrical

DALI-2 | 1 DALI Addr.

PC2 | 220-240 V

system 25.3 W | fixture 22.7 W

650 mA

## Physical

diameter 105 mm | height 99 mm

0.65 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> incl. consideration of optical losses & internal control unit losses  
<sup>3</sup> Value of containing product at full load (undimmed)

## Installation instructions



## Lighting calculator



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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 Factor            |        |

<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                            | 18                 |
| B16                            | 30                 |
| C10                            | 23                 |
| C16                            | 36                 |

## Components

### MOUNTING SET trimless

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



### POWER SUPPLY

| L-W-H (MM) | ARTICLE NUMBER(S) |
|------------|-------------------|
| 143-43-30  | 002-90789         |



## Mounting accessories

### THROUGH WIRING CONNECTION BOX

| TYPE                                     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--|------------|-------------------|
| non DIM cable ø 4 – 12 mm, Linect®-Ready | 105-58-30  | 005-2531110       |
| DALI cable ø 4 – 12 mm, Linect®-Ready    | 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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### SNOOT short

Ø (MM)

66

ARTICLE NUMBER(S)

080-6403118



### SNOOT medium

Ø (MM)

66

ARTICLE NUMBER(S)

080-6403218



### SNOOT angle

Ø (MM)

66

ARTICLE NUMBER(S)

080-6403318

