

# TWIST 100

trim

048-1121118F 048-2796318 002-90780



|                |
|----------------|
| 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; with trim jet black; suitable for ceiling thickness of 2-25 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 4000 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. converter, non dimmable; 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     | 6490     | 0.70  |
| 2     | 1620     | 1.40  |
| 3     | 720      | 2.10  |
| 4     | 410      | 2.80  |
| 5     | 260      | 3.50  |

## Product drawing



## General

|                               |
|-------------------------------|
| Ceiling , Recessed            |
| tilt max 45°                  |
| rotation 360°                 |
| black , RAL 9005 <sup>1</sup> |
| Mounting set jet black        |
| front IP20 , back IP20        |
| 3160 lm                       |
| fixture 139 lm/W <sup>2</sup> |

## LED

|  |
|--|
| 4000 K   |
| CRI ≥ 90   |
| L80 / 50000 h  |
| initial MacAdam ≤ 2 SDCM   |
| R <sub>g</sub> : 100 , R <sub>f</sub> : 92 , R <sub>f(1-15)</sub> : 91 |
| MR 0.78  |
| MDER 0.71  |

## Optical

|                          |
|--------------------------|
| flood                    |
| beam angle 39°           |
| PstLM ≤ 1.0 <sup>3</sup> |
| SVM ≤ 0.4 <sup>3</sup>   |

## Electrical

|                |
|----------------|
| non DIM        |
| 220-240 V      |
| system 25.3 W  |
| fixture 22.7 W |
| 650 mA         |
| PC2            |

## Physical

|                 |
|-----------------|
| diameter 118 mm |
| height 99 mm    |
| 0.42 kg         |

## Cutout

|                              |
|------------------------------|
| diameter 108 mm              |
| min. ceiling thickness 2 mm  |
| max. ceiling thickness 25 mm |
| recessed depth 160 mm        |

<sup>1</sup> RAL code

<sup>2</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

<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 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 with trim 1 lamp

| TYPE                      | COLOUR    | Ø (MM) | ARTICLE NUMBER(S) |
|---------------------------|-----------|--------|-------------------|
| for intermediate ceilings | jet black | 118    | 048-2796318       |



### 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, 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

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

