

# TWIST 100 trim 2 lamps

048-1121017M 048-2798318 002-90780



Project / Type

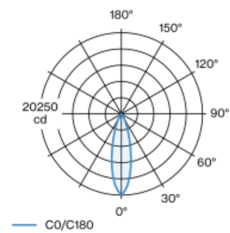
Notes

Count / Date



Round recessed spotlight in die-cast aluminium; 2 lamps; surface white 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 3000 K; binning initial MacAdam  $\leq 2$  SDCM; CRI  $\geq 90$ ; 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 27° beam; 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;

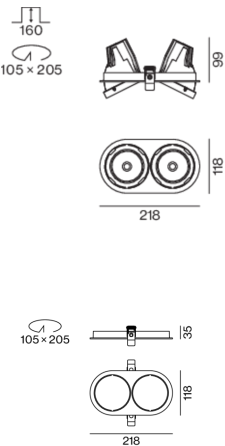
## Light distribution



medium 27°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 10100    | 0.49  |
| 2     | 2500     | 0.97  |
| 3     | 1100     | 1.46  |
| 4     | 600      | 1.95  |
| 5     | 400      | 2.43  |

## Product drawing



## General

Ceiling , Recessed

tilt max 45°

rotation 360°

white , RAL 9016 <sup>1</sup>

Mounting set jet black

front IP20 , back IP20

6300 lm

fixture 139 lm/W<sup>2</sup>

## LED

3000 K

CRI  $\geq 90$

L80 / 50000 h

initial MacAdam  $\leq 2$  SDCM

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

MR 0.54

MDER 0.49

## Optical

medium

beam angle 27°

PstLM  $\leq 1.0$  <sup>3</sup>

SVM  $\leq 0.4$  <sup>3</sup>

## Electrical

non DIM

220-240 V

system 51 W

fixture 22.7 W

650 mA

fixture 45 W

PC2

## Physical

length 218 mm

width 118 mm

height 99 mm

0.44 kg

## Cutout

diameter 105 mm

length 205 mm

width 105 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)



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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 2 lamps

| TYPE                      | COLOUR    | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------------------------|-----------|------------|-------------------|
| for intermediate ceilings | jet black | 218-118-35 | 048-2798318       |



### 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       |

