

TWIST 100

trim

048-1121017S 048-2796318 002-90789



Project / Type

Notes

Count / Date



Round recessed spotlight in die-cast aluminium; 1 lamp; 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 ≤ 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 20° 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;



General

Ceiling | Recessed

tilt max 45°

rotation 360°

white | RAL 9016 ¹

Mounting set jet black

front IP20 | back IP20

3100 lm

fixture 136 lm/W ²

LED

3000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R_g: 98 | R_f: 91 | R_(f-15): 93

MR 0.54 | MDER 0.49

Optical

spot | beam angle 20°

PstLM ≤ 1.0 ³ | SVM ≤ 0.4 ³

Electrical

DALI-2 | 1 DALI Addr.

PC2 | 220-240 V

system 25.3 W | fixture 22.7 W

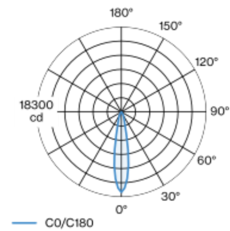
650 mA

Physical

diameter 118 mm | height 99 mm

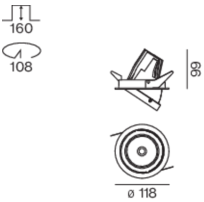
0.61 kg

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



Cutout

diameter 108 mm

min. ceiling thickness 2 mm | max. ceiling thickness 25 mm

recessed depth 160 mm

¹ RAL code
² incl. consideration of optical losses & internal control unit losses
³ 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 ^a Room Surface Maintenance Factor | | |
| MF | Maintenance Factor | | LLMF Lamp Lumens Maintenance Factor | | |
| LMF ^a | Luminaire Maintenance Factor | | LSF Lamp Survival Factor | | |

^a 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 with trim 1 lamp

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



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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Optical accessories

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

