



MINO 60 system

ceiling/ suspended

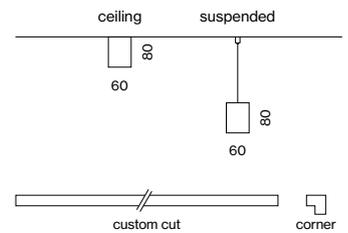
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; with feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

FR Corps de luminaire en profil extrudé en alu, version arête ; aucune vis visible ; pour les systèmes d'éclairage ; thermolaquée ; Profilé de luminaire pour montage livrable avant ; composants restants montable sans outil ; suspension par câble ; réglage en hauteur sans outil ; fixation au luminaire au moyen de clips à ressort ; conduit d'alimentation inclus ; élément lumineux composé de profilé extrudé laqué hautement réfléchissant pour une gestion thermique améliorée ; en option module d'éclairage raccourcissable de manière flexible ; cache HPO (High Performance Opal) pour éclairage homogène ; cache PMMA microprismatique, avec film diffusant inclus pour réduire la brillance avec un éclairage homogène ; module d'éclairage wallwasher ; LED à haut rend. éner. – excellent rendu coul.

Quickinfo

3000 K, 4000 K, TW
 CRI ≥ 80, CRI ≥ 90, 3 SDCM
 up to 2750 lm/m
 up to 146 lm/W
 L90 @ 50 000 h
 non DIM, DALI-2
 opal, microprismatic (UGR ≤ 19)

Types



Colours



Light distributions



DiiA® standards
251, 252, 253



single luminaire



wallwasher inset



concrete install. housing



flexible inset



microprismatic UGR ≤ 19



tunable white 2700-6500K



CRI ≥ 98 XPECTRUM

Order options

| | |
|-----------------|---|
| LED TYPE | |
| mid lumen | L |
| high lumen | M |

| | |
|----------------------------|---|
| COLOUR TEMPERATURE | |
| 3000 K (CRI ≥ 90) | 0 |
| 4000 K (CRI ≥ 90) | 1 |
| 3000 K (CRI ≥ 80) | 5 |
| 4000 K (CRI ≥ 80) | 6 |
| tunable white 2700–6500 K* | |

*DALI-2 DT8

| | |
|--------------------------|---|
| CONTROL | |
| non DIM | 1 |
| DALI-2 (only high lumen) | 3 |

| | |
|----------------------------|---|
| MATERIAL COLOUR | |
| ○ pure white RAL 9010 | 7 |
| ● white aluminium RAL 9006 | G |
| ● jet black RAL 9005 | 8 |
| ● special colours | X |

| | |
|---------------------------------|---|
| LIGHT OPTIC COVER | |
| opal high performance | H |
| microprismatic | Z |
| microprismatic (UGR ≤ 19)* | G |
| blind cover only for corner 90° | B |

*UGR ≤ 19 only with mid lumen

| | |
|------------------------|---|
| EMERGENCY LIGHT | |
| 1h Accupack | 1 |
| 3h Accupack | 3 |

Options on request

| |
|-------------------------------|
| COLOUR RENDERING INDEX |
| CRI ≥ 98 XPECTRUM |

| |
|--------------------|
| CONNECTORS |
| X- and T-connector |

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13%

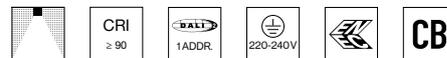
MINO 60 ceiling/suspended

INSTALLATION CHANNEL / CORNER 90°

| | | |
|----------------------------|---------------|-------------------|
| TYPE | L (mm) | ORDER CODE |
| channel | 1172 | 046-400401 |
| channel | 1472 | 046-400501 |
| channel | 3000 | 046-400901 |
| channel | custom | E85031 ···· |
| channel corner 90° + cover | 150x150 | 046-401121 |

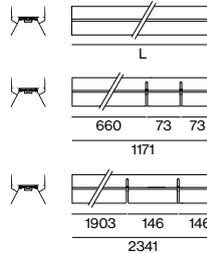
LIGHT OPTIC COVER/BLIND COVER

| | | |
|-------------------|---------------|-------------------|
| TYPE | L (mm) | ORDER CODE |
| linear | 1171 | 006-16122 |
| linear | 1470 | 006-16152 |
| linear | 2997 | 006-16302 |
| linear | custom | E80630 ···· 0 |
| continuous linear | 6000 | 006-23061H |
| continuous linear | 25000 | 006-23251H |
| blind cover | 3000 | 006-1830 |
| blind cover | custom | E80630 ···· |



LIGHT INSET 60

| | | |
|--------------------------------------|---------------|-------------------|
| SYSTEM POWER (MID/HIGH LUMEN) | L (mm) | ORDER CODE |
| 6.9/12.1W | 571 | 007-93 |
| 10.3/17.5W | 871 | 007-93 |
| 13.3/23.3W | 1171 | 007-93 |
| 16.6/29.1W | 1463 | 007-93 |
| 26.6/45W | 2341 | 007-93 |
| 33/58W | 2997 | 007-93 |
| 13.3/23.3W flex | 660-1171 | 007-93 |
| 26.6/45W flex | 1903-2341 | 007-93 |



| | | | | |
|------------------|---------------------|---------------------|-------------------------|-----------------|
| COVER | COLOUR TEMP. | SYSTEM POWER | DELIVERED LUMENS | EFFICACY |
| mid lumen/opal | 3000K | 11W/m | 1400lm/m | 123lm/W |
| high performance | 4000K | | 1600lm/m | 146lm/W |
| high lumen/opal | 3000K | 20W/m | 2370lm/m | 119lm/W |
| high performance | 4000K | | 2700lm/m | 135lm/W |

LIGHT INSET 60 tunable white 2700–6500K

| | | |
|---------------------|---------------|-------------------|
| SYSTEM POWER | L (mm) | ORDER CODE |
| 19W | 871 | 007-9333D37 |
| 25.3W | 1171 | 007-9334D37 |
| 31W | 1463 | 007-9335D37 |
| 49W | 2341 | 007-9338D37 |

Accessories

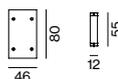
END CAPS

| | |
|-----------------|-------------------|
| TYPE | ORDER CODE |
| end caps (pair) | 046-501001 |



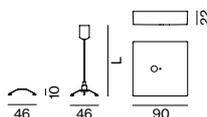
LINEAR CONNECTOR/THROUGH WIRE

| | |
|---|-------------------|
| TYPE | ORDER CODE |
| linear connector (1 piece) | 005-40046 |
| linear connector (10 pieces) | 005-40046.10 |
| opal cover linear connector | 006-14000 |
| through wire 3 × 1.5 mm ² (non DIM, 10 pieces) | 004-90003 |
| through wire 5 × 1.5 mm ² (DALI-2, 10 pieces) | 004-90005 |



CEILING CLIP / CABLE SUSPENSION / CANOPY

| | | |
|---|---------------|-------------------|
| TYPE | L (mm) | ORDER CODE |
| ceiling clip | 10 | 034-111636 |
| cable suspension | 1500 | 005-2122110 |
| canopy/feeder cable 3 × 1.5 mm ² | 1500 | 005-221231 |
| canopy/feeder cable 5 × 1.5 mm ² | 1500 | 005-221241 |
| cable rail | 1200 | 005-2491110 |



for electrical system configuration see luminaire data sheet at xal.com



WALLWASHER

inset 60/100

EN Lighting module with specially computed, asymmetrical high gloss reflector for homogeneous vertical lighting; lighting module in aluminium, powder coated, installation without tools

DE Lichteinsatz mit speziell berechnetem, asymmetrischem Hochglanz-Reflektor für homogene vertikale Beleuchtungen; Lichteinsatz aus pulverbeschichtetem Aluminium werkzeuglos einsetzbar

Quickinfo

3000K, 4000K
CRI ≥ 80, 3 SDCM
up to 96lm/W
L80 @ 50000h
non DIM, DALI-2

Types



Colours



Light distribution



wall
washer

Order options

| COLOUR TEMPERATURE | |
|--------------------|---|
| 3000K | 5 |
| 4000K | 6 |

| CONTROL | |
|---------|---|
| non DIM | 1 |
| DALI-2 | 3 |

| MATERIAL COLOUR | |
|----------------------------|---|
| ○ pure white RAL 9010 | 7 |
| ● white aluminium RAL 9006 | G |
| ● jet black RAL 9005 | 8 |

LIGHT OPTIC

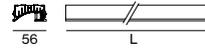
wallwasher

Planning information



MOUNTING DISTANCE

| H (mm) | A (mm) |
|--------|--------|
| 2750 | 900 |
| 3000 | 1000 |
| 3500 | 1200 |



INSET 60 wallwasher



LIGHT INSET only for recessed or surface mounting

| SYSTEM POWER | L (mm) | ORDER CODE |
|--------------|--------|------------|
| 10.6 W | 571 | 007-9042 |
| 14 W | 871 | 007-9043 |
| 18.7 W | 1171 | 007-9044 |
| 23 W | 1471 | 007-9045 |

Technical data

| SYSTEM POWER | COLOUR TEMPERATURE | DELIVERED LUMENS | EFFICACY |
|--------------|--------------------|------------------|----------|
| 17 W/m | 3000 K | 1960 lm/m | 121 lm/W |
| | 4000 K | 2070 lm/m | 128 lm/W |



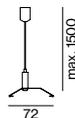
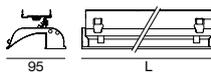
INSET 60 wallwasher, 18.7 W, 3000 K

ROOM VALUES

| | |
|-----------------------------|------------------------|
| Wall dimensions | H = 2.8 m W = 10.8 m |
| Distance to wall | B = 1.3 m |
| Distance between luminaires | continuous |
| Reflection factor | 0.7 0.5 0.2 |
| Maintenance factor | 0.8 |

CALCULATION SURFACE

| | |
|--------------------|-----------------|
| Surface dimensions | 10.8 × 2.8 m |
| Surface height | 0 – 2.8 m |
| Eye level | 1.35 m – 1.75 m |



INSET 100 wallwasher



LIGHT INSET

| SYSTEM POWER | L (mm) | ORDER CODE |
|--------------|--------|------------|
| 20 W | 571 | 007-9052 |
| 30 W | 871 | 007-9053 |
| 40 W | 1171 | 007-9054 |
| 51 W | 1463 | 007-9055 |

CABLE SUSPENSION

| TYPE | L (mm) | ORDER CODE |
|----------------------|--------|-------------|
| inset 100 wallwasher | 1500 | 005-2132310 |

installation channel is required for mounting

Technical data

| SYSTEM POWER | COLOUR TEMPERATURE | DELIVERED LUMENS | EFFICACY |
|--------------|--------------------|------------------|----------|
| 35 W/m | 3000 K | 2820 lm/m | 82 lm/W |
| | 4000 K | 2990 lm/m | 87 lm/W |



INSET 100 wallwasher, 30 W, 3000 K

ROOM VALUES

| | |
|-----------------------------|------------------------|
| Wall dimensions | H = 2.8 m W = 10.8 m |
| Distance to wall | B = 1.3 m |
| Distance between luminaires | continuous |
| Reflection factor | 0.7 0.5 0.2 |
| Maintenance factor | 0.8 |

CALCULATION SURFACE

| | |
|--------------------|-----------------|
| Surface dimensions | 10.8 × 2.8 m |
| Surface height | 0 – 2.8 m |
| Eye level | 1.35 m – 1.75 m |

Light distribution



asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

Order options

| NUMBER OF PIECES | |
|------------------|---|
| 2 pieces | 2 |
| 3 pieces | 3 |



FRAME 40/MINO 40

HOUSING FOR CONCRETE INSTALLATION

| TYPE | L (mm) | ORDER CODE |
|---------------|--------|-------------------|
| FRAME 40 trim | 3010 | 0 0 5 - 4 1 3 5 6 |
| MINO 40 | 3010 | 0 0 5 - 4 1 3 5 6 |

MOUNTING SET

| TYPE | ORDER CODE |
|---------------|-----------------|
| FRAME 40 trim | 0 3 5 - 0 6 0 2 |
| MINO 40 | 0 3 4 - 0 6 0 2 |

up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2 x 2 pieces

END CAPS

| TYPE | ORDER CODE |
|-----------------|-------------------|
| end caps (pair) | 0 0 5 - 4 1 2 3 6 |

LINEAR CONNECTOR

| TYPE | ORDER CODE |
|------------------------------|-------------------------|
| linear connector (1 piece) | 0 0 5 - 4 1 1 6 6 |
| linear connector (10 pieces) | 0 0 5 - 4 1 1 6 6 . 1 0 |

CORNER CONNECTOR 90°

| TYPE | L (mm) | ORDER CODE |
|---------------|--------|-------------------|
| FRAME 40 trim | 140 | 0 3 5 - 0 6 0 1 6 |
| MINO 40 | 140 | 0 3 5 - 0 6 0 1 6 |



Note
only for installation in concrete ceilings
no use for wall installation (only on request)

CONCRETE installation housing

EN Concrete casting made of aluminium profile, designed for continuous lighting systems

DE Betoneingießgehäuse aus Aluminiumprofil, ausgelegt für durchgehende Lichtsysteme

Order options

| NUMBER OF PIECES | |
|------------------|---|
| 2 pieces | 2 |
| 3 pieces | 3 |



FRAME 60/MINIMAL 60/MINO 60/BASO 60

HOUSING FOR CONCRETE INSTALLATION

| TYPE | L (mm) | ORDER CODE |
|----------------------|--------|------------|
| FRAME 60 trim | 3000 | 005-41346 |
| BASO 60 IP54 trim | 3000 | 005-41346 |
| MINIMAL 60 trimless | 3000 | 005-41346 |
| MINO 60 ceiling | 3000 | 005-41446 |
| BASO 60 IP54 surface | 3000 | 005-41446 |

MOUNTING SET

| TYPE | ORDER CODE |
|----------------------|------------|
| FRAME 60 trim | 035-0600 |
| BASO 60 IP54 trim | 035-0600 |
| MINIMAL 60 trimless | 036-0400 |
| MINO 60 ceiling | 034-0400 |
| BASO 60 IP54 surface | 034-0400 |

up to 900mm: 2 pieces/up to 1500mm: 3 pieces/up to 3000mm: 2x2 pieces

END CAPS

| TYPE | ORDER CODE |
|-----------------|------------|
| end caps (pair) | 005-41246 |

LINEAR CONNECTOR

| TYPE | ORDER CODE |
|------------------------------|--------------|
| linear connector (1 piece) | 005-41166 |
| linear connector (10 pieces) | 005-41166.10 |

CORNER CONNECTOR 90°

| TYPE | L (mm) | ORDER CODE |
|----------------------|--------|------------|
| FRAME 60 trim | 142 | 035-04016 |
| BASO 60 IP54 trim | 142 | 035-04016 |
| MINIMAL 60 trimless | 146 | 036-04016 |
| MINO 60 ceiling | 157 | 034-04016 |
| BASO 60 IP54 surface | 157 | 034-04016 |

FRAME 100/MINIMAL 100/MINO 100

HOUSING FOR CONCRETE INSTALLATION

| TYPE | L (mm) | ORDER CODE |
|----------------------|--------|------------|
| FRAME 100 trim | 3000 | 005-41366 |
| MINIMAL 100 trimless | 3000 | 005-41366 |
| MINO 100 ceiling | 3000 | 005-41466 |



MOUNTING SET

| TYPE | ORDER CODE |
|----------------------|------------|
| FRAME 100 trim | 035-0600 |
| MINIMAL 100 trimless | 036-0500 |
| MINO 100 ceiling | 034-0400 |

up to 900mm: 2 pieces/up to 1500mm: 3 pieces/up to 3000mm: 2x2 pieces

END CAPS

| TYPE | ORDER CODE |
|-----------------|------------|
| end caps (pair) | 005-41266 |

LINEAR CONNECTOR

| TYPE | ORDER CODE |
|------------------------------|--------------|
| linear connector (1 piece) | 005-41166 |
| linear connector (10 pieces) | 005-41166.10 |

CORNER CONNECTOR 90°

| TYPE | L (mm) | ORDER CODE |
|----------------------|--------|------------|
| FRAME 100 trim | 202 | 035-05016 |
| MINIMAL 100 trimless | 207 | 036-05016 |
| MINO 100 ceiling | 207 | 034-05016 |